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IP town Gas
SR/Tech

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RELEASABLE

JAN 07 2008

REVIEWER JW

December 21, 2007

Mr. Jason Crompton
Illinois Environmental Protection Agency
Site Remediation Program – Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

RECEIVED

DEC 21 2007

IEPA/BOL

Dear Mr. Crompton:

Subject: **Comprehensive Site Investigation Report**
Former Manufactured Gas Plant Site
AmerenIP
Champaign, Illinois
LPC# 0190100008

AmerenIP is submitting the Comprehensive Site Investigation Report (SIR) for the former Manufactured Gas Plant Site located in Champaign, Illinois. The site is located at 308 North Fifth Street (formerly 502 East Hill Street). The SIR describes activities that were performed on property owned by AmerenIP and adjacent properties.

As an authorized party, Ameren hereby request the Illinois EPA's authorization to provide notice as part of Agency-approved community relations activities pursuant to subsections (a) and (c) of Section 25d-3 of the Environmental Protection Act. We would be pleased to integrate the new Community Right-To-Know (CRTK) Act requirements into our ongoing community relations program.

Ameren has had relationship since 1986 with the City of Champaign and the surrounding neighborhood in regard to this former manufactured gas plant site. Our staff has notified city officials and neighbors of periodic on-site work (including source material removal activities in 1997/1998 and various investigational activities) through informal and written communications. We have been in communication with the City of Champaign and adjacent property owners.

Ameren has prepared a fact sheet describing the findings of the SIR pursuant to CRTK regulations. We will be submitting a draft of the fact sheet to you for review and comment prior to distribution in January 2008.

If you have any questions relating to the SIR or our request to conduct communications activities pursuant to CRTK regulations, you may contact me at (314) 554-2233. Questions concerning the SIR may also be directed to Mr. Peter Sazama with Philip Environmental Services Corporation at (618) 281-1575.

Sincerely,

Brian H. Martin

Brian H. Martin, CHMM
Consulting Environmental Scientist

Enclosure: Site Investigation Report (Original and 2 copies)

ORIGINAL

cc: Philip Environmental Services Corporation (1 copy)
Mable Thomas – City of Champaign (1 copy)
Gina Jackson – City of Champaign (1 copy)
Lori Muller – USEPA (1 copy)

Comprehensive Site Investigation Report For AmerenIP Champaign, Illinois Former Manufactured Gas Plant State ID 0190100008

December 2007

Prepared for:

AMERENIP

ST. LOUIS, MISSOURI

Columbia, Illinois

Comprehensive Site Investigation Report for AmerenIP Champaign, Illinois Former Manufactured Gas Plant State ID 0190100008

December 2007

Prepared for:

AMERENIP
ST. LOUIS, MISSOURI

PHILIP ENVIRONMENTAL SERVICES CORP.
210 West Sand Bank Road
Columbia, Illinois 62236

Project (62402647)

EXECUTIVE SUMMARY

Executive Summary

AmerenIP is submitting this Comprehensive Site Investigation Report (SIR) to describe the soil and groundwater impact at the former manufactured gas plant (MGP) facility in Champaign, Illinois. The Comprehensive Site Investigation has been prepared in accordance with the Illinois Environmental Protection Agency's (IEPA) Site Remediation Program (SRP) to meet the requirements of Illinois Administrative Code (IAC) Section 740.425. This site has been assigned State I.D. 0190100008.

This Comprehensive SIR is being submitted with the intent of the Remedial Applicant (RA), AmerenIP, to obtain a Comprehensive No Further Remediation (NFR) letter for the remediation site as identified in Figure ES-1. Findings of the previous investigations indicated the presence of soil and groundwater impact exceeding Tier 1 remediation objectives (ROs). Interim remedial measures (IRM) were performed in 1997 and 1998 to address subsurface impact.

The primary objective of the comprehensive site investigation was to define the extent, both vertical and horizontal, of the MGP related impacts on the AmerenIP property. Information collected and evaluated from previous site investigations indicates that some additional investigation may be required to further define the extent off-site. Based upon the data that is currently available, there is minimal potential for exposure to individuals within and outside of the remediation site for the constituents of concern. Where necessary and appropriate, AmerenIP will coordinate with potentially affected property owners to complete off-site evaluations and address impacts. Such off-site data will be incorporated into future reports.

AmerenIP initiated the investigation activities and performed the appropriate actions to address the impact related to the former uses of the property.

Site Description

The remediation site (Figure ES-1) is located at 308 North Fifth Street (formerly 502 East Hill Street), Champaign, Illinois. The site consists of a vacant flat area secured by a chain-link fence, and is owned by AmerenIP.

The site is located in a mixed residential and commercial neighborhood At this time the future uses of the surrounding properties are anticipated to remain as mixed residential and commercial.

Site History

Historical information indicates that the former Champaign and Urbana Gas Light Company and subsequently AmerenIP, operated a MGP on the remediation site from approximately 1869 through the early 1930s. The plant was placed on standby status from the early 1930's to the mid 1950's and was used for meeting peak demand up until the mid 1950's. The site remained vacant and unused from 1960 until the property was sold to American Legion Post 559 in 1979. The "Booster House" was maintained and used for periodic meetings by the

American Legion from 1979 until 1991. AmerenIP repurchased the property from the American Legion in 1991 and the site has since remained vacant.

Site Investigation Objectives

This Comprehensive SIR is being submitted with the intent of the RA, AmerenIP, to obtain a Comprehensive NFR Letter for the remediation site as identified in ES-1. Findings of the site investigation indicated the presence of soil and groundwater impact exceeding Tier 1 ROs.

Technical Approach

The technical approach for the investigations included reviewing historical data and information to identify potential recognized environmental conditions (RECs). Upon identification of the potential RECs a plan was developed to perform subsurface investigation activities to either confirm or exclude the actual presence of subsurface impact that would be associated with those potential RECs. The approach involved numerous site investigations (from 1986 to 2004) within the remediation site and its surrounding properties. Investigation results indicated the presence of subsurface soil and groundwater impact.

Recognized Environmental Conditions

Historical information representing past uses of the property identifies RECs to most likely be present on most of the remediation site. The former gas plant and associated buildings, three tar wells, two gas holders, and two oil tanks were located on the northern portion of the site. The former booster house, one gas holder, three purifiers, and seven oil tanks were located on the southern portion of the site. No other RECs were identified.

Constituents of Concern

The analytical data set was compared to the Tier 1 RO values, the provisional non-TACO ROs, and accepted background levels as an initial screening. Based on this review and comparison to the Tier1 ROs and background levels, the potential exposure pathways of concern are:

- The *soil ingestion pathway* for residential, industrial/commercial and construction worker settings;
- The soil inhalation pathway for residential, industrial/commercial and construction worker settings;
- The soil component to groundwater ingestion pathway; and
- The groundwater ingestion pathway.

Twenty-five constituents of concern (COC) were identified in soils. Fifteen constituents have been identified in groundwater at levels exceeding Tier 1 ROs. The exposure pathways and constituents of concern that exceed Tier 1 ROs or a background level are summarized in

Table ES-1. Remedial actions have been performed to address significant levels of impact. AmerenIP may incorporate the following measures in order to meet the requirements for NFR:

- remediation through excavation and proper disposal of impacted soil exceeding ROs;
- calculation of Tier 2 and/or Tier 3 ROs using site specific information and data;
- the construction and use of engineered barriers to restrict exposure;
- implementation of Highway Authority Agreements with appropriate highway jurisdictions; and/or
- implementation of institutional controls for property use as industrial/commercial purposes and for requirements of maintaining construction worker protection;

The implementation of these actions in order to meet the comprehensive NFR requirements will be discussed and presented in the Remedial Objectives Report (ROR) and the Remedial Action Completion Report (RACR).

1 INTRODUCTION

This report has been prepared for AmerenIP by Philip Environmental Services Corporation (PSC). PSC was retained by AmerenIP to provide consulting services for the investigation and closure of the former Champaign manufactured gas plant (MGP) site located in Champaign, Illinois. Site investigation activities have been performed in accordance with 35 Illinois Administrative Code (IAC) Section 740 – Site Remediation Program (SRP) and 35 IAC Section 742- Tiered Approach to Corrective Action Objectives (TACO).

Environmental investigation and remediation activities have been performed at the Champaign site since 1986. Therefore, there is a significant amount of site specific data that pre-dates the SRP and TACO guidance. Even though current methodologies were not in place at the time the data was collected, this information is very useful in understanding the current site conditions, including the degree and extent of environmental impacts. This report incorporates these earlier data to the degree practicable and both geological and chemical analytical data are included in this report.

1.1 Site Location

The site is located within the city limits of Champaign, Illinois in Champaign County in the northeast quarter of the southwest quarter of Section 7, Township 19 North, Range 9 East of the Third Principal Meridian. The site address is 308 North Fifth Street (formerly 502 East Hill Street), Champaign, Illinois. The property is currently vacant, is secured by a chain-link fence, and is owned by AmerenIP. Figure 1-1 illustrates the approximate location of the site. The general area around the site consists if both residential and commercial properties. Figure 1-2 depicts the remediation site boundaries. Figure 1-2 also identifies the extents to which AmerenIP is seeking to obtain a No Further Remediation (NFR) letter.

A railroad right-of-way (Norfolk-Southern) borders the site to the north and several residential properties are located north of the single active track within the railroad right-of-way. Vacated Sixth Street right-of-way is adjacent to the east of the site; however, Sixth Street is abandoned between the railroad right-of-way and the alley south of the site. Other property east of the vacated Sixth Street right-of-way is commercial. Residential properties to the south are separated from the site by the chain link fence and an alley. North Fifth Street borders the site to the west and separates the site from residential properties west of Fifth Street. At one time, Hill Street approximately bisected the site in the east-west direction but is now part of the site and owned by AmerenIP.

1.2 Project Objectives

The primary objective of the Comprehensive Site Investigation (CSI) was to define the extent, both vertical and horizontal, of the MGP related impacts on the AmerenIP property. Information collected and evaluated from previous site investigations indicates that some additional investigation may be required to further define the extent off-site. Based upon the data that is currently available, there appears to be a minimal potential for exposure to individuals within and outside of the remediation site for the constituents of concern. Where necessary and appropriate, AmerenIP will coordinate with potentially affected property owners to complete off-site evaluations and address impact. Such off-site data will be incorporated into future reports.

The data obtained from the CSI were utilized with the previous existing data for the evaluation of potential actions required to obtain a NFR letter for the site from the Illinois Environmental Protection Agency (IEPA).

Specific objectives of the CSI activities included the following:

- Completely characterize site geological and hydrogeological conditions;
- Assess the existence, condition, and contents of subsurface structures associated with the former MGP and not addressed during the Interim Remedial Measures (IRM) activities completed in 1997;
- Characterize the degree and extent of soil and groundwater impacts with respect to depth and site boundaries; and
- Support the development of remediation objectives for the site.

These objectives were addressed through completion of the following field activities during 2004:

- Excavation and sampling of test pits;
- Completion of surface and subsurface soil sampling using a GeoProbe™;
- Completion of a site survey;
- Redevelopment of existing groundwater monitoring wells;
- Collection of groundwater samples; and
- Completion of soil and groundwater laboratory analytical program.

1.3 Report Organization

This Comprehensive Site Investigation Report (CSIR) was prepared for submittal to the IEPA to meet the requirements of IAC Section 740.425. This report is organized into eight technical sections and fourteen appendices. Section 1 provides an introduction to the site and objectives of this report.

Section 2 presents information on the background of the site and includes details relative to site history and previous investigation activities. Since information and data from previous investigations is used in the evaluation of current site conditions, Section 2 also includes a presentation of previous data and results of earlier studies. In addition, Section 2 includes a discussion of site physical conditions, including regional and site specific geological and hydrogeological conditions. Section 3 presents a brief overview of the Comprehensive Site Investigation Work Plan and Section 4 presents a discussion of work completed for the investigation. Section 5 presents the investigation chemical analytical program and includes a discussion of the results. Section 6 presents a discussion of the endangerment assessment and includes a discussion of recognized environmental conditions at the site and the results of a comparison to Tier 1 Remediation Objectives (ROs). Section 7 is a summary of the nature and extent of impacts at the site. Section 8 presents the Illinois Licensed Professional Geologist review statement and certification.

This report includes:

- A description of the site;
- A discussion of any enforcement or response activities;
- A sampling plan developed for investigation activities;
- The discussion of site investigation field activities;
- A presentation of the data and results of the analytical testing and the evaluation of the hydrogeological conditions;
- An endangerment assessment;
- A summary and conclusions; and
- Appendices and supporting documentation.

2 SITE BACKGROUND

The following sections provide a description and characterization of the site as required under IAC Section 740.425(b)(2). The sections provide site information, a site setting, and legal description. No Phase I Environmental Site Assessment (ESA) report was prepared; however standard Phase I ESA data was collected as outlined in ASTM 1527 and was used to develop the approach for the investigation and a site investigation plan.

2.1 Site History

Historical information was used for evaluating prior property use and to identify potential recognized environmental concerns (RECs). The historical data helped AmerenIP develop a scope and plan for investigation activities and the selection of constituents for analysis. The following limited information relative to MGP history is summarized from Sanborn Fire Insurance Maps (Sanborn Maps), Brown's Directory of American Gas Companies (Brown's Directories), AmerenIP files, and other historical documents.

Historical information suggests that the original MGP at the site began operation circa 1869 and continued through approximately 1933. Figure 2-1 presents a panoramic drawing illustrating the gas plant in 1869 and was taken from a bird's eye view of the city of Champaign originally published by the Chicago Lithograph Co. Records for the site prior to 1887 are extremely limited; however, the first edition of Brown's Directory (1887) indicates that the Champaign and Urbana Gas Light Co. was producing coal gas at the site. Table 2-1 presents a summary of Brown's Directory information for the Champaign site. An 1887 Sanborn Map illustrates the facility layout and included a single gas holder, coal shed, retorts, lime house, two wells, and condensing, purifying, and meter rooms. Figure 2-2 presents a historical map obtained from AmerenIP's records showing approximate locations of MGP structures in 1910. Copies of available Sanborn Maps showing the site are presented in Appendix A.

Between 1890 and 1907, the approximate annual production grew from 6,000,000 cubic feet (c.f.) per year to approximately 30,000,000 c.f. per year. The 1907 Brown's Directory indicates that gas production was a combination of coal gas and oil gas, which continued through 1911. However, the 1902 Sanborn Map suggests that both coal gas and water gas processes were in operation by 1902. During the period 1907 to 1911, gas production increased from 30,000,000 c.f. per year to approximately 58,000,000 c.f. per year.

In the 1910 Brown's Directory, the gas holder capacity was identified as 120,000 c.f. This holder capacity is consistent with the approximate

combined capacity of gas holders GH-1 and GH-2 depicted in the historical drawings (Figure 2-2). The original construction date for these two gas holders is unknown; however, Sanborn Maps for 1897 and 1902 indicate that gas holder GH-2 was constructed sometime during that five year period. The 1902 Sanborn Map indicates the capacity of GH-1 was 23,000 c.f. and the capacity of GH-2 was 49,000 c.f.

The 1909 to 1911 time frame was a period of change and expansion at the facility. A 1910 site layout drawing (Figure 2-2) illustrates the plant facilities, which included both retorts and water gas sets, indicating another change in the gas making processes. This 1910 drawing also shows three tar wells, two oil storage tanks, and an ammonia storage tank. There are two gas holders shown (consistent with GH-1 and GH-2) plus a note that a third, two-lift 340,000 c.f., gas holder (GH-3) was located to the south across Hill Street (Figure 2-2). The 1909 Sanborn Map also indicates that a second lift had been added to holder GH-2, increasing the capacity to 100,699 c.f. The 1911 Brown's Directory indicates that gas holder capacity for the plant was 500,000 c.f., confirming the note on the 1910 drawing. The 1912 Brown's Directory also confirms the installation of water gas equipment during this time period. The 1902 and 1909 Sanborn Maps also confirm the presence of water gas equipment.

Brown's Directories between 1912 and 1918 indicate little change occurred at the plant other than a steady increase in production from approximately 50,000,000 c.f. to approximately 130,800,000 c.f. In 1915 the gas produced was approximately 60% water gas and 40% coal gas. The 1915 Sanborn Map shows the facility layout approximately the same as the 1910 site map and identifies gas holder capacities as follows: GH-1 at 25,440 c.f., GH-2 at 100,700 c.f., and GH-3 at 150,000 c.f. The gas holder capacity for GH-3 conflicts with other site data and is believed to be an error by the Sanborn recorder.

Brown's Directories from 1919 through 1921 indicate total gas holder capacity was 500,000 c.f. In 1922 total capacity had decreased to 440,000 c.f. and by 1923 the capacity was 600,000 c.f. These changes are consistent with the removal of GH-1 from service as a gas holder and eventual conversion to a tar well/separator; and the addition of a third lift to holder GH-3, increasing capacity from 340,000 c.f. to 500,000 c.f. A November 2, 1922 site drawing (Figure 2-3) and the 1922 Brown's Directory confirm these changes as well as the termination of coal gas operations and complete conversion of the facility to water gas production. In addition, this 1922 site drawing (Figure 2-3) shows the relocation of purifiers from inside the building north of Hill Street to a location south of Hill Street and west of the largest gas holder (GH-3). The drawing also shows pipe sizes and location of inlets and outlets for holders GH-2 and GH-3 and distribution lines from the site. There are also seven oil and diesel fuel tanks shown along the southwestern edge of the site.

AmerenIP drawings indicate the conversion of GH-1 to a tar well/separator was completed in late 1924.

Brown's Directories from between 1918 and 1927 indicate that gas production increased during that period from approximately 130,800,000 c.f. to approximately 298,500,000 c.f. There are only two oil tanks along the southwestern edge of the site and the "Gas Experiment Station of the University of Ill." is shown at the east end of the site north of the Hill St. right-of-way. The Gas Experimental Station structures do not appear on any of the Sanborn Maps. The 1924 and 1929 Sanborn Maps (Figure 2-4) are otherwise generally consistent with both the 1926 and 1927 site maps however, the Sanborn Maps indicate that gas holder GH-3 had a capacity of 1,500,000 c.f. Although successive Sanborn Maps for 1941, 1949, 1951 and 1959 also indicate a capacity of 1,500,000 c.f., this is an obvious error, since the holder would have to be more than 200 feet tall and have eight or nine lifts. Based on both Brown's Directory and AmerenIP drawings, gas holder GH-3 had a maximum capacity of approximately 500,000 c.f. and was a three-lift, on-slab, above-grade, water-seal tank. A historical site photograph also confirms that GH-3 was an above grade three lift holder.

Brown's Directories for 1933 and 1934 indicate that production of gas on a regular basis was terminated in 1932 or 1933. The 1934 Brown's Directory indicates that natural gas was being purchased from Panhandle Illinois Pipe Line Co. of Kansas City, Mo. Based on the 1941 and 1949 Sanborn Maps, the plant was maintained in standby condition through at least 1949 and a circa 1953 photograph indicates that the plant was still standing. The photograph also shows several high-pressure gas cylinders on the eastern end of the site. These cylinders do not appear on any of the site maps or Sanborn Maps. The 1959 Sanborn Map indicates that all structures north of the Hill Street right-of way had been removed. Based on interviews with AmerenIP employees, demolition of the above ground on-site facilities, with the exception of the booster house, occurred between 1955 and 1960. The site remained vacant and unused from 1960 until the property was sold to American Legion Post 559 in 1979.

The American Legion Post renovated the interior of the "Booster House" structure and used it for periodic meetings. The structure was used and maintained by the American Legion from 1979 until 1991.

An initial site reconnaissance was conducted by AmerenIP and PSC personnel on February 9, 1990. The purpose of this visit was to confirm the location of structures and other site features, assess shallow soil conditions, and inspect the depth and nature of material remaining in GH-1. During the week of February 12, 1990, the American Legion employed a grader operator to excavate a shallow trench at the site to improve surface drainage. While excavating this trench, impacted soil and tar-like odors were encountered and AmerenIP was notified. AmerenIP and PSC personnel conducted a site

inspection to assess the level of risk and to recommend site stabilization activities. A PSC representative remained on site to oversee the stabilization activities, which consisted of the following actions:

- The parking lot for the American Legion Hall was covered with a fresh layer of gravel approximately six inches thick.
- An interior fence was erected around the edge of the parking lot to discourage access to the remaining portions of the site.
- The southern two-thirds of the site were covered with approximately 18 inches of clean fill.
- Weighted 55-gallon drums were placed over the access ports of GH-1.

AmerenIP repurchased the property from the American Legion in 1991 and the site has remained vacant since that time.

In summary, MGP operations had begun by 1869 and continued through the early 1930s at which time operations were converted to storage and distribution of natural gas. During this period two below ground gas holders, one aboveground gas holder, five tar wells, a tar separator, seven oil tanks, and two diesel fuel tanks were present. All aboveground structures, except for the booster house, were demolished in the late 1950s.

2.2 Site Description

The remediation site is located within the city limits of Champaign, Illinois in Champaign County in the northeast quarter of the southwest quarter of Section 7, Township 19 North, Range 9 East of the Third Principal Meridian (Figure 1-1). The site address is 308 North Fifth Street (formerly 502 East Hill Street), Champaign, Illinois. The property is currently vacant and is owned by AmerenIP.

The cities of Champaign and Urbana have a combined population of approximately 94,000. Although the cities were once separate communities, they have merged into a single metropolitan area. The area surrounding the remediation site is generally residential and consists primarily of older homes. The remediation site is currently zoned MF2 (multi-family density 2) due to the previous site use by the American Legion. Light commercial activity is present to the southeast of the site.

Figure 2-5 illustrates the current site layout. The site is approximately 2.4 acres, is currently vacant, and is secured by a chain link fence and three (3) locked gates. The site is generally flat with grassy vegetation. The only surface structure on the site is one that remains from the MGP era (i.e. booster house) and is located near the middle of the site. This building is single story

brick construction with no basement. Due to placement of fill at various times since 1990, there are no visible indications of past MGP activities other than the brick building.

A railroad right-of-way (previously Norfolk-Southern) borders the site to the north and several residential properties are located north of the single active track. The vacated Sixth Street right-of-way is adjacent to the east of the site; however, Sixth Street is abandoned between the railroad right-of-way and the alley south of the site. Other property east of the vacated Sixth Street right-of-way is zoned commercial and consists of vacant land and parking lots. Residential properties to the south are separated from the site by the chain link fence and an alley. North Fifth Street borders the site to the west and separates the site from residential properties. At one time, Hill Street approximately bisected the site in the east-west direction but is now part of the site and lies within the fenced area of the site.

2.3 Legal Description

The legal description for the Champaign remediation site is as follows:

> Part of the SW ¼, of Sec. 7 T.19N. R.9E. of the 3rd. PM., City of Champaign, Champaign County, Illinois, more particularly described as follows:
>
> Lots 7, 8, 9, 10, 11, and 12 in block 29 (except railroad right-of-way) of Seminary Addition to Urbana, now a part of the City of Champaign lying south of the railroad right-of-way;
>
> And lots 1, 2, and 3 in block 31 of Seminary Addition to Urbana, now a part of the City of Champaign;
>
> And a strip of land 66 feet in width known as vacated Hill Street lying between blocks 29 and 31;
>
> And lots 1, 2, and 3 of Assessor's Plat of subdivision of lot 8 in M.W. Busey's subdivision of south part of lot 1 of the south west quarter of Section 1, Township 19 North, Range 9 East of the third principal meridian, and lots 4, 5 and 6 in block 31 of Seminary Addition to Urbana, now a part of the City of Champaign, as per plat recorded in deed record 35 a page 66;
>
> All situated in the City Champaign, County of Champaign and the State of Illinois.

2.4 Regional Geological and Hydrological Setting

Champaign County, Illinois is situated within the Bloomington Ridge Plain in the Till Plains section of the Central Lowland Physiographic Province. The landscape is characterized by widely spaced continental glacial moraines with nearly featureless ground moraine plains. The geology beneath Champaign County has been summarized as 100 to 400 feet of Wisconsinan, Illinoian, and Kansan glacial drift deposited on Paleozoic bedrock which dips eastward and southward toward the Illinois Basin.

Six major waterways drain Champaign County. The Middle Fork of the Vermilion River, the Little Vermilion River, the Embarras River, and the Salt Fork empty into the Wabash River and drain the eastern half of the County. The Sangamon River, which discharges into the Illinois River, and the Kaskaskia River, which discharges into the Mississippi River, drains the western half of the Champaign County. Limited areas along these waterways are subjected to periodic temporary flooding.

Potential sites for development of surface water reservoirs in Champaign County have been investigated. However, because of the abundant groundwater resources available, surface water reservoirs have not yet been developed. There are no natural lakes in Champaign County, but there are about 450 acres of man-made recreational lakes.

Groundwater resources in Champaign County come from three aquifers within the Wisconsinan, Illinoian and Kansan glacial deposits. The aquifers were named the Wedron, Glasford and Banner aquifers by Kempton et al (1982), after the glacial formation in which each is encountered. Within Champaign County, however, the aquifers have been simply defined as the upper, middle and lower sand and gravel aquifer. The difference between the two definitions is that the upper aquifer in Champaign County occurs in outwash sands and gravels, whereas Kempton's Wedron Aquifer is defined as the formation's basal sand and gravel unit, the Ashmore Member. The Ashmore aquifer is encountered in scattered locations throughout east-central Illinois and is apparently not laterally continuous beneath Champaign County.

The upper sand and gravel aquifers found in the Wisconsinan Wedron Formation beneath Champaign County occur as isolated pockets or lenses of sand and gravel in the Champaign and Urbana Moraines or outwash sand and gravel near the front of the moraines. The aquifers provide water for about 29 percent of the individual farms and domestic wells in the County (Sanderson and Zewde, 1976). Throughout Champaign County, wells finished in these isolated sands and gravels vary in depth from about 25 to 100 feet BLS. Water table elevations range from 650 feet above MSL in eastern Champaign County to about 750 feet above MSL northwest of Champaign.

The middle sand and gravel aquifers found in the Illinoian Glasford Formation occur as fairly continuous layers in the Radnor and Vandalia Till Members. The middle aquifer serves as a source of water for 55 percent of the farm and domestic wells in the County. The middle aquifer also provides a backup source of water for the cities of Champaign and Urbana. The top of the middle aquifer ranges from about 125 to 175 feet BLS near Champaign/Urbana. The bottom ranges between 175 and 200 feet BLS. The water level of wells finished in the middle aquifer ranges from about 630 feet above MSL around Champaign/Urbana to about 720 feet above MSL in the northwest part of the County. The direction of flow appears to be towards the southwest (Sanderson and Zewde, 1976).

The lower sand and gravel aquifer encountered in the Kansan Banner Formation occurs as thick sand and gravel deposits of the Mahomet bedrock valley. The aquifer within the Mahomet Sand is the most significant aquifer within east-central Illinois, accounting for about 87 percent of municipal groundwater supplies for the County. The groundwater resources of the Mahomet Sand are underdeveloped, especially those overlying the main channel. The lower aquifer can be up to 150 feet thick, depending on proximity to the main channel of the Mahomet bedrock valley. The top of the Mahomet Sand is fairly consistent at 500 feet above MSL. The average width of the valley is about 12 miles in Champaign County. The deposit is composed of clean sand and gravel. However, the deposit becomes more silty towards the valley margins.

The Paleozoic bedrock beneath the glacial deposits provides only small supplies of water from sandstone and limestone beds of the Pennsylvanian formations. The groundwater in Mississippian and older bedrock is too deep and/or too mineralized to be considered a good source of water.

The Illinois American Water Company (IAWC) supplies water from water wells located in the west well field located about three miles west of the site. These wells average about 310 feet in total depth and have between 50 and 100 feet of screen. The wells in the west field produce water from the Mahomet Sand Member. IAWC also has water wells in the north well field located about 1.0 mile northeast of the site. These wells average about 210 feet deep, with screens ranging from 10 to 50 feet in length. The wells produce water from the middle sand and gravel aquifer in the Glasford Formation.

2.5 Private and Public Drinking Water Wells in Vicinity

The "EDR Illinois Water Well Report" provides a summary of known water wells within a one-half mile radius of the site. Federal, State, and Public Water supply databases were searched. Twenty-two (22) wells were identified from the State database. There are no public water supply wells

within the one-half mile radius of the site. A copy of the EDR report is presented in Appendix B.

Champaign/Urbana and the University of Illinois are supplied with water from the IAWC. IAWC supplies water from water wells located in the west well field about three miles west of the MGP site. These wells average about 310 feet in total depth and have between 50 and 100 feet of screen. The wells in the west field produce water from the Mahomet Sand Member.

The IAWC also has water wells in the north well field located about 1.0 mile northeast of the MGP site. These wells average about 210 feet deep, with screens ranging from 10 to 50 feet in length. The wells produce water from the middle sand and gravel aquifer in the Glasford Formation.

2.6 Site Geology

The major geologic units present at the site; in descending order, are the surficial fill layer, the weathered till unit (Wedron), the unweathered till unit (Wedron), and the lower silty sand member of the Glasford Formation. The mappable geologic units found in the shallow subsurface at the site include (in descending order), the Surficial Fill Layer, the Weathered Till Unit (Wedron), the Unweathered Till Unit (Wedron), and a Lower Silty Sand Member of the Glasford Formation.

The geology of the site was interpreted through analysis of the Phase II geologic logs (Appendix D), CSI geologic logs (Appendix I), field notes of the site geologist, grain-size distribution curves and results of physical property testing. Physical property testing was completed during the Phase II investigation and results are summarized in Table 2-2.

2.6.1 Surficial Fill Layer

The surficial fill layer is typically three to four feet thick and covers the entire site. The fill consists of gravelly silt and sand, with cinders, bricks and debris. Much of the fill was placed on the site after demolition of the MGP facilities was completed. Some topsoil encountered may have been classified as fill material based on a dark organic appearance which resembles the known fill on site. Topsoil was also placed over portions of the site where CSI test pits were excavated. The fill is thickest in an isolated area along the northern portion of the site near the railroad tracks.

2.6.2 Weathered Till Unit

The first natural subsurface material encountered is a weathered till unit. The unit is continuous beneath the study area and is believed to be part of the Batestown Till Member of the Wisconsinan Wedron Formation. The Weathered Till Unit was contacted at various depths beneath the study area. The unit averages 10 to 15 feet thick beneath the site with maximum thickness of 18 feet encountered in borehole UTB-25 drilled near the former Booster House.

The Weathered Till Unit is comprised of brown to gray silty clay with some oxidation evident along clay fractures. MGP residual staining is present along some of these fractures. Numerous minor sand and silty sand layers were encountered; however, the sand layers are laterally discontinuous. Residual impacts are frequently associated with sandy and silty layers; however, units as thick as one foot could not be identified in adjacent borings or probeholes. The distinction between the weathered and unweathered till units was often difficult to distinguish.

2.6.3 Unweathered Till Unit

The Unweathered Till Unit is also believed to be part of the Batestown Till Member of the Wisconsinan Wedron Formation. The unit is generally differentiated from the Weathered Till Unit by the gray color and lack of weathering along fractures. The Unweathered Till was encountered at depths ranging from 9 to 20.5 feet BLS. Sand and gravel layers were also encountered within the Unweathered Till Unit; however, these layers were not laterally continuous beneath the site.

2.6.4 Lower Silty Sand Unit

Three deep boreholes drilled during the Phase II investigation encountered thick sand, silty sand, and gravel units at depths below 100 feet. These deeper deposits are believed to be the upper units of the Illinoisan Glasford Formation. The actual contact between Wedron and Glasford was not delineated due to the similarities between the units and the rotary wash drilling method used in the deeper boreholes. None of the CSI probeholes encountered this unit.

2.7 Site Hydrogeology

Groundwater hydrology activities completed during the CSI consisted only of sampling wells which had been installed during the Phase II activities.

The following sections describe the two aquifers beneath the site investigated during the Phase II investigation.

2.7.1 Shallow Groundwater System

The shallow groundwater system at the site is an unconfined water-bearing zone with the saturation depth (water table) found in the Surficial Fill Layer or the Weathered Till Unit. This groundwater system extends into the Unweathered Till Unit. Water levels have been recorded a number of times in each of the wells. In addition, water levels were recorded for several piezometers which have subsequently been abandoned. Quarterly groundwater monitoring has been performed at the site since 1996. The configuration of the shallow water table in July 2004 is shown on Figure 2-6. The configuration of the shallow water table in July 2006 is shown on Figure 2-7. Water level measurements taken at other times have been generally consistent with this July 2004 and 2006 monitoring events. Water level data from several sampling events are presented in Appendix J.

During earlier site investigation activities, some piezometers were installed as nests with monitoring intervals screened at depths of about 5-to 10-feet, 20-to 25-feet, and 30-to 35-feet BLS. In general, the deeper piezometers had deeper static water levels, indicating a downward vertical gradient. Infiltration of precipitation from the surface is the main source of recharge to the shallow groundwater system. Recharge may be variable across the site depending on surface and subsurface conditions, including remaining MGP subsurface structures.

Groundwater in the shallow system beneath most of the site generally flows in a north and northwest direction. In the south and southeast part of the site, groundwater flows to the south and southeast, respectively.

Groundwater flow gradients differ considerably between the southern and northern parts of the site. The shallow groundwater system near the southern edge of the site has a hydraulic gradient of about 0.08 foot per foot. The groundwater flow rate is about 7.5 feet/year based on an averaged observed hydraulic conductivity of 9.1×10^{-5} cm/sec from the slug tests performed in wells UMW-104 and UMW-106 (Table 2-3). Groundwater velocity could be as high as 30 feet/year using an effective porosity of 25 percent. The shallow groundwater system for the remainder of the site has a hydraulic gradient of about 0.01 foot per foot. The resulting groundwater flow rate is about 0.33 foot/year based on an average hydraulic conductivity of 3.2×10^{-5}

cm/sec from the slug tests performed in wells UMW-108 and UMW-102. Groundwater velocity could be as high as 1.3 feet/year using an effective porosity of 25 percent. Calculation methods were presented in the RI report (Burlington, 1994).

2.7.2 Deep Groundwater System

The deep sand zone groundwater system was encountered at about 115 feet BLS in the Glasford Formation and is continuous across the site. Literature references (Sanderson and Zewde, 1976) indicate that this groundwater system is a confined aquifer. This observation was confirmed at the site where water levels in the deep wells stabilized approximately thirty feet above the top of the sand unit. Configuration of the potentiometric surface of this unit in January 1993 is shown on Figure 2-7. Although the flow direction defined by the January, 1993 water levels was to the southeast, other measurements taken between December 1990 and November 1992 have also indicated flow to the northeast, southwest, and northwest. The regional gradient in the Glasford aquifer is to the west-southwest (Sanderson & Zewde, 1976); however, local flow directions in the site vicinity are not well defined and may be influenced by use of the backup well field located about 4000 feet northeast of the site.

The three deep wells installed during the Phase II site investigation were plugged and abandoned in 1999. During the period between 1992 and 1998 when these wells were being monitored, no impacts were detected. Since there is a downward gradient from the shallow groundwater unit to the deeper aquifer, these wells were plugged to prevent them from acting as a potential conduit from shallow impacted soils to the deeper aquifer.

2.8 Geological Summary

In order to facilitate interpretation of site investigation findings, a series of "fence diagrams" (referred to as cross sections) were developed which illustrate some of the site features and characteristics. A total of six sections have been constructed. Figure 2-9 is a site plan which shows locations of these six cross sections. Figures 2-10 through 2-12 are west to east cross sections and Figures 2-13 through 2-15 are south to north sections through the site.

The three west to east cross sections show a fairly uniform distribution of the surficial fill layer, weathered till and the unweathered till units. The lower sand unit was only encountered in the northwestern portion of the site. The surficial fill layer is slightly thicker in the northern portion of the

site with thicknesses of approximately 3.5 to 3.9 feet. The weathered till unit averages from 6.25 to 6.5 feet thick. The unweathered till unit averages approximately 19.5 to 20.25 feet thick.

2.9 Preliminary Assessment

Elements of a Phase I ESA have been completed throughout the duration of project activities dating back to 1990. In July 2002 PSC completed Phase I ESA activities through an Environmental Data Resources, Inc. (EDR) data search. The Preliminary Assessment (PA) elements provided by EDR included the following:

- Search of Illinois Water Well Report,
- Search of available environmental records, and
- Search of Sanborn Fire Insurance maps.

Sanborn Fire Insurance Maps covering the site area were examined for the years 1887, 1892, 1897, 1902, 1909, 1915, 1924, and 1951. Observations from examination of these maps were presented previously in Section 2.1. Copies of the maps showing the general site area are presented in Appendix A.

EDR completed a search of available environmental records and produced a report entitled "The EDR Radius Map With GeoCheck". A copy of the complete EDR report is presented in Appendix B. The EDR search revealed the following:

- Search of the RCRIS-SQG list revealed that there are four RCRIS-SQG sites within approximately 0.25 miles of the site.
- Leaking Underground Storage Tank (LUST) incident Reports revealed that there are seven LUST sites within approximately 0.5 miles for the site.
- The Underground Storage Tank (UST) database of registered USTs revealed that there are seven UST sites within approximately 0.25 miles of the site.
- Search of the Illinois Site Remediation Program (SRP) list revealed that there are three SRP site within approximately one mile of the site.

2.10 Previous Investigations

Several phases of investigation have been completed at the site and are summarized briefly below. It is noted that a significant portion of the work completed at the site pre-dates the initiation of the SRP and TACO. It is also noted that field technologies and methodologies have changed and that

analytical laboratory procedures have improved considerably during that period. These investigations began in 1986 and have included both on-site and off-site activities. An interim removal action was also completed in 1997 and 1998 and groundwater sampling activities have been carried out on a quarterly basis from 1997 through 2004. Due to the changes noted above, rationale and objectives have varied considerably during the course of these activities. Beginning in 1990, AmerenIP communicated information through a variety of channels about the various phases of the investigation to the surrounding neighborhood and local, state and federal officials.

The following phases of investigation are discussed in subsequent sections:

- *Phase IA/IB Investigation* – completed by Warzyn Engineering, Inc. (Warzyn) in 1986
- *Phase IC/ID RECON™ Investigation* – completed by John Mathes & Associates, Inc. (Mathes) in 1990
- Phase II Site Investigation – completed by Burlington Environmental, Inc. (Burlington) in 1990
- Supplemental Site Investigation – completed by Philip Services Corporation in 1997
- Interim Remedial Measures – completed by Philip Services Corporation in 1998
- Quarterly Groundwater Monitoring – currently being performed by Kelron Environmental

2.10.1 Phase IA/IB Investigation

Warzyn conducted two phases of investigation during 1986. The objectives of the Phase IA/IB Investigations were to determine the presence or absence of MGP residual products and to identify buried structures associated with the MGP operation. Phase IA consisted of a detailed site inspection and interviews, and was completed October 22 and 23, 1986. Phase IB was conducted November 17 and 18, 1986 and included soil gas sampling and geophysical exploration.

Evidence of both buried structures and MGP residuals was observed on the site. Several circular slabs and numerous foundation walls were visible at grade throughout the site and their locations generally coincided with historical drawings. In addition, soil gas anomalies were noted in areas consistent with the location of historical MGP structures. Site activities subsequent to the Phase IA/IB investigation have resulted in either the removal or covering of historical structures visible at that time.

2.10.2 Phase IC/ID RECON® Investigation

Mathes completed the Phase IC/ID RECON Investigation activities, on-site and off-site, between March 5, 1990 and May 25, 1990. The principal objective of the Phase IC/ID RECON Investigation was to evaluate the nature and extent of impacts of MGP residuals in both shallow soils and groundwater. Results of the Phase IC/ID activities indicated that there were widespread MGP impacts both on-site and off-site. These results were presented in detail in the Phase IC and Phase ID Investigation Reports.

The Phase IC (on-site) and Phase ID (off-site) RECON investigations were performed to obtain subsurface data for AmerenIP to use in a preliminary assessment of the nature and extent of impact to soil and groundwater at the site, and to assess possible off-site movement of MGP residuals. Site activities included using a GeoProbe for collection of both soil and groundwater samples at 34 locations on-site (Phase IC) and 37 locations off-site (Phase ID). Figure 2-16 shows the approximate location of Phase IC/ID probeholes.

During the Phase IC investigation, 34 locations were probed to collect groundwater and soil samples for on-site chemical analysis of headspace vapors.

Headspace analysis of soil and water samples was performed because the formation materials encountered were too impermeable for an appreciable volume of soil-gas to enter the probes. At three locations, probe refusal was encountered at a depth of less than three feet into the surface fill material; therefore, no sampling was performed at these points. At the remaining locations, 20 groundwater or fluid samples and 17 soil samples were collected for headspace analysis. The headspace vapors of these samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) constituents and relative total petroleum hydrocarbon (TPH) concentrations using an on-site gas chromatograph (GC).

During the Phase ID investigation, groundwater and soil samples were collected at 37 off-site locations. A total of 34 soil samples and nine groundwater samples were collected for headspace analysis. The samples were analyzed for BTEX and TPH.

The combined results of the on-site and off-site surveys indicated subsurface impacts from MGP related residuals over much of the site and also off-site primarily to the northeast, north and west. Based on BTEX values, off-site migration of MGP residuals appeared to have occurred along the northern and northwestern boundaries of the site. Along the northern boundary, residual impact appeared to have

migrated north of the active rail line at depths of more than 28 feet below ground surface (bgs). Along the northwestern boundary, residual impact appeared to have migrated across North Fifth Street west of the former gas-plant building.

Two areas identified with BTEX impacts may be due to releases of fuel oil/diesel fuel rather than MGP constituents. One area (former above ground oil tanks) is located in the southern part of the site and appears to extend beneath the alley adjacent to the southern site boundary. The other area is located immediately west of the northwest portion of the property. Historical data indicates that an oil storage facility and gasoline station were once located in that area. No off-site laboratory analysis was performed on samples collected during the Phase IC/ID activities. While notes of subsurface conditions were recorded, no borehole logs were generated for the Phase IC/ID activities. For preparation of the sampling plan, the information obtained from the Phase IC/ID investigations was used for qualitative purposes to aid in selecting boreholes and monitoring well locations. The results of soil and groundwater headspace data were not used for comparisons to Tier 1 ROs, nor will it be used for justification for no further remediation. Table 2-4 summarizes soil-gas results for the Phase 1C/1D investigations.

2.10.3 Phase II Site Investigation

The objective of the Phase II Site Investigation (SI) activities was to assess the horizontal and vertical extent of impact from MGP constituents in the soil and groundwater. In addition, the levels of impacts of these constituents on subsurface soils and the shallow groundwater were evaluated. The investigative methods used to accomplish these objectives were described in the Phase II Work Plan submitted to and approved by the IEPA in 1990. The Work Plan contained sampling, health and safety, quality assurance, and community relations plans.

Phase II SI activities began in November 1990, continued throughout 1991, and were completed in January 1992. Phase II SI activities, both on-site and off-site, included completion of soil borings, installation of piezometers and monitoring wells, excavation of test pits, chemical analysis of soil and groundwater samples, aquifer characteristic tests, and ambient air monitoring. Soil boring locations are illustrated on Figure 2-17 and approximate piezometer and well locations are illustrated on Figure 2-18. Thirty-four soil samples (Table 2-5) were collected for analysis from 28 boring locations (Table 2-6). Three deep borings were drilled with total depths ranging from 170.0 feet to 175.0 feet bgs. The remaining 25 borings were drilled to depths

ranging from 8 feet to 35 feet bgs. A groundwater monitoring program was begun during the Phase II SI activities and has been continued to the present, however, some of the wells and all of the piezometers have been abandoned and, therefore, are no longer included in a monitoring program.

Phase II SI activities also included collection and analysis of five (5) surface soil samples, excavation and sampling of test pits, sampling and analysis of storm sewers, and residential air sampling and analysis (Figure 2-19). In general the results of the Phase II SI confirmed the results of the Phase I studies; however, it did not fully define the degree and extent of MGP impacts. Impacts from MGP constituents were identified both on-site and off-site. In addition, non-aqueous phase liquid (NAPL), potentially related to MGP activities, was identified in two off-site wells; one north of the site and one east of the site. Data developed during the Phase II SI will be used to evaluate remedial objectives to the extent that the data satisfy TACO quality criteria. In addition, Phase II SI information will be used to further refine the site conceptual model. A discussion of the results of the Phase II Investigation is incorporated into Section 7 of this report.

A summary of the techniques used during the Phase II SI is as follows:

- geologic test drilling using hollow-stem augers;
- soil sampling using 1.25- or 2.5- inch inside diameter split-spoon samplers, continuous-tube-system samplers, and three-inch-diameter Shelby Tube samples;
- excavation and sampling of exploratory test pits;
- installation of one-inch-diameter, PVC piezometers;
- installation of two-inch-diameter, stainless steel or PVC groundwater monitoring wells;
- well development using bailers, surge blocks, rod pumps, centrifugal lift pumps, and bladder pumps;
- collection of water or sediment samples from selected underground utilities such as sewers;
- chemical analysis of soil, NAPL, groundwater, surface water, and sewer samples; and,
- physical testing of selected soil samples.

2.10.3.1 Borehole Drilling and Soil Sampling

Boreholes drilled and sampled during the Phase II SI activities were numbered sequentially from UTB-01 through UTB-28 (Figure 2-16). Three deep boreholes were drilled to depths of 170 to 175 feet bgs for the installation of deep monitoring wells. All other sampled boreholes were drilled to depths of 14 to 35 feet bgs. Drilling was performed utilizing 4.25-inch-interior-diameter (I.D.) hollow-stem augers. Samples were collected continuously in all boreholes (with the exception of the three deep boreholes) to the termination depth of the borehole. The three deep boreholes were sampled continuously to a depth of 30 feet. Cuttings were logged for the remainder of the deep boreholes. Soil samples were obtained with either a continuous-tube sampler or a split-spoon sampler. Thirty-four soil samples were collected for chemical analysis. Table 2-5 presents a summary of the Phase II SI laboratory analytical program. Phase II analytical results for soil samples are presented in Appendix C and have been used subsequently in the Tier 1 evaluation to the extent that the data are applicable. The analytical results are discussed and summarized in Section 5.

Some soil sample collection was performed with three-inch-diameter, Shelby-Tube samplers. This type of sampler was used to collect relatively undisturbed samples of fine-grained materials for laboratory geophysical soil testing. Logs for the Phase II SI borings are presented in Appendix D.

2.10.3.2 Test Pit Excavation And Sampling

Test pits were excavated at several locations on-site. Figure 2-19 illustrates the approximate location of test pits. Test pits were excavated in the area of the former purifiers to evaluate potential impacts from inorganic residuals. Test pits were also excavated in the areas of former facility structures to determine if any MGP residuals remained in these underground structures. No analytical samples were collected.

2.10.3.3 Surface Soil Sampling

Five surface (0-6 inch) soil samples were collected from both on-site and off-site locations during the Phase II SI. Figure 2-19 shows the approximate location of surface soil samples. Three samples were collected on-site and two samples were collected off-site. These samples were collected to provide information on

potential exposure levels and also to provide background information.

2.10.3.4 Storm Sewer Sampling

Five samples of both liquid and sediment were collected through manholes of storm sewers adjacent to the site (Figure 2-19). Sampling methods included removing the manhole covers and collecting a fluid sample by lowering a bailer through the manhole to obtain the sample. Sediment samples were collected by taping a stainless steel spoon to a wooden handle extension, lowering the spoon through the manhole and scooping up a sample of the sediment at the base of the sewer. The objective of sampling of storm sewers was to determine the potential for these utilities to act as conduits for transport of MGP impact.

2.10.3.5 Residential Air Sampling

Results of Phase IC and ID investigations indicated the potential for off-site impact of volatile compounds. As a result, air samples were obtained from the basements of target residences adjacent to the site in December 1990, March 1991, and December 1991. Samples were also obtained from the basements of homes in the general area of the site but not adjacent to the site. Ambient air samples were obtained from the site and a city park located about 10 blocks north of the site during the March and December 1991 sampling events. All air samples were analyzed for BTEX constituents

Analytical results indicated that the concentrations of BTEX vapors detected in the target houses were comparable to the concentrations detected in the control homes. The concentrations detected in both the target and control houses are somewhat lower than those reported in the literature as typical concentrations of these compounds in the indoor air in most U.S. homes.

Concentrations of toluene, ethylbenzene, and xylenes detected on-site were slightly higher than those detected at the park; however, the concentration of benzene was lower on site. These differences are believed to be a result of variability in atmospheric conditions and sampling and analytical variability. The outdoor concentrations of benzene and toluene observed at Champaign were fairly comparable to concentrations typically observed in remote or rural areas.

2.10.3.6 Groundwater Monitoring and Sampling

Monitoring well locations were selected to evaluate groundwater quality up-gradient and down-gradient of the site and to define the horizontal and vertical extent of MGP-related impact. Piezometer locations were selected to monitor groundwater levels, intersect potential NAPL, and provide groundwater quality data in the potential source areas. Figure 2-18 illustrates approximate locations of piezometers and monitoring wells. Table 2-6 presents well and piezometer construction information, including depth and screened interval, for the 35 wells and piezometers.

Monitoring Well Installation

Initial monitoring wells were constructed with PVC materials; however, based on directions from AmerenIP on December 6, 1990, monitoring wells installed after that date were constructed with two-inch-diameter No. 304 stainless steel screens and risers. Monitoring well UMW-403 was of hybrid construction, with a stainless steel screen and riser from 170 feet bgs to approximately 50 feet bgs and a PVC riser from that point to the ground surface.

Well screens were 0.010-inch slot size, either machine-cut PVC or wire-wrapped stainless steel. Screen lengths were 30 feet for the deep wells (400-series) and 10 feet for all shallow monitoring wells with the exception of UMW-102, which has 15 feet of screen. Rationale for shallow wells was to screen across the water table at an average depth of 10 to 20 feet. The deep wells were screened from approximately 130 to 170 feet bgs. Rationale for deep wells was to screen the deeper confined water bearing unit below 115-feet bgs.

Most monitoring wells were completed with flush-mount well protectors, with the exception of the wells within the property boundary (UMW-113, UMW-114, and UMW-115), which were completed with three-foot stickup well protectors. A WB-40 sand pack was placed around the well screens and brought up to an elevation of approximately two feet above the top of the well screen. A two-foot thick bentonite grout seal was placed above the sand pack. The remainder of the borehole was sealed to the ground surface with a cement-bentonite mixture. Well construction logs and details are presented in Appendix E.

Upon completion, wells were developed to restore the natural hydraulic conductivity of the monitored formation, and remove all drilling-induced sediment to provide turbidity-free groundwater samples. Well development was completed by surging water through the screens using a PVC bailer to loosen the fine-grained material in the sand packs and by pumping the wells with a two-inch-diameter submersible pump. The wells were developed until the discharge was clear and the water quality parameters of pH, temperature, and specific conductance had stabilized.

Piezometer Installation

Piezometers installed during the Phase II SI were constructed using one-inch-diameter Schedule-40 PVC. Screen sections were 0.010-inch machine-cut slot size and were three or five feet in length for all piezometers except for UPZ-108, which had 10 feet of screen. Piezometers were completed with flush-mount well protectors, except those installed within the site boundary which were completed with three-foot stickup well protectors. Some piezometers were installed as clustered nests (Table 2-6). Shallow piezometers are identified as the 100-series and were typically installed with screened intervals between 4 and 10 feet. Intermediate piezometers were the 200-series and are installed with screened interval between 12 and 20 feet, and deep piezometers were the 300-series and are installed with screened intervals of 20 to 30 feet.

Piezometer locations were selected based on assumed potential MGP source areas; therefore, the possibility of fluid NAPL accumulating at the bottom of the piezometers existed at the time of their installation. During normal development procedures, any NAPL present in the piezometer could be contacted with the bailer and then smeared over the screen and riser sections and would make subsequent collection of representative groundwater samples of no value. Therefore, piezometers were not developed, and samples were collected carefully from only the upper portion of the water column.

Groundwater Sampling

Groundwater samples were collected during the Phase II SI from the 16 shallow (UMW-101 through UMW-116) and three deep monitoring wells (UMW-401 through UMW-403). Water samples were also collected from selected on-site and off-site

piezometers. Prior to sample collection, each well was purged by removing a minimum of three casing volumes of water. Removal rates during purging did not exceed well development rates. Water quality parameters were monitored during purging to ensure stabilization and removal of stagnant water. Teflon bailers were used to collect groundwater samples during the earlier sample rounds and low flow purge pumps or peristaltic pumps were used to sample during later events.

Aquifer Testing

In situ permeability tests were performed on four select wells screened in differing soil types as determined during drilling and sampling. The test data were analyzed according to the Bouwer-Rice solution (1976). The test method used in two of the four wells involved the insertion and removal of a solid stainless steel slug, with water level measurements taken with an electronic water level indicator and a stop watch. The other two wells were tested based on Ferris and Knowles studies (1963) by removing a known volume of water and checking water level measurements during recovery with an electronic water level indicator and watch. Table 2-3 presents aquifer test results.

Groundwater Flow Conditions

Phase II study results indicate that flow velocities, based on the apparent gradients, single well permeability tests and an estimated effective porosity of 25 percent are approximately 30 feet/year to the south and 1.3 feet/year to the northwest. Shallow groundwater flow directions and velocities are complicated by localized areas of enhanced permeabilities, e.g., sand lenses and backfill around gas and sewer lines. Groundwater traveling through the granular backfill in sewer trenches may also infiltrate the sewer lines where the vitrified clay pipes have cracked. An inspection with a television camera of the first 100 feet of the storm sewer running south from the corner of N. Fifth Street and Washington Street revealed the line to be in poor condition with cracks and leaks. Migration in the sewer backfill may have facilitated the flow of groundwater towards wells UMW-107 and UMW-103, causing the elevated benzene and cyanide concentrations in these wells.

Groundwater flow is also influenced by observed sand horizons in the till which are not laterally continuous, but appear to provide local pathways of higher permeability for groundwater flow. A higher groundwater velocity is present in the vicinity of well UMW-105. The groundwater velocity is higher than other

portions of the site. MGP constituents have not migrated noticeably greater distances to the south, suggesting the area of higher groundwater velocity is very restricted.

2.10.3.7 Site Surveying

During the Phase II activities a grid coordinate system for the site was established by AmerenIP surveyors. A site-specific datum for horizontal coordinates was established in the southeast corner of the site and was assigned the coordinates of 5,000.0N and 3,000.0E (in feet). The elevation for the site was established from a City of Champaign record of a sewer manhole at the north end of the site. The locations of pertinent site features and a surface topographic map were surveyed with reference to these site data. Survey accuracies were on the order of ± 1.0 foot horizontally and ± 0.01 foot vertically. It is noted that during the CSI activities completed in 2004, a site survey was completed by an Illinois registered surveyor and previous data were corrected. The site survey currently ties the site into the Illinois state co-ordinate system.

2.10.3.8 Chemical Analysis

Chemical analyses were performed by Heritage (EMS) Laboratories of Indianapolis, Indiana on soil, groundwater, and sediment samples obtained during the Phase II SI activities. Groundwater samples obtained subsequent to 1993 were analyzed by TekLab Inc. (TekLab) of Collinsville, Illinois. Analytical parameters included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCS), cyanide, and various metals and other indicator parameters. Table 2-5 is a summary of chemical analyses and methods completed for the subsurface soil samples. Table 2-7 is a summary of chemical analyses and methods of the Phase II SI groundwater analytical program. Laboratory analytical data sheets for soil are presented in Appendix C and groundwater data sheets are presented in Appendix F.

Soil samples representative of different lithological units encountered during the Phase II SI were selectively tested for physical properties. These tests included:

- vertical permeability (four samples, ASTM D 5084);
- natural moisture content (nineteen samples, ASTM D 2216);

- dry unit weight (four samples);
- grain-size distribution (seven samples, ASTM D 422 and D 2240); and
- liquid and plastic limits (seven samples, ASTM D 4318).

Physical testing results are presented on Table 2-2 and laboratory data are presented in Appendix G.

2.10.3.9 Phase II SI Summary

Results of the Phase II SI showed that significant impacts to both surface and subsurface soil and groundwater existed both on-site and off-site. Soil impacts are greater and appear to extend to greater depth on the northern portion of the site and also extend off-site to an area north of the railroad right-of-way. Off-site impacts also extend to the east into the vacated Sixth Street right-of-way. Groundwater impacts also extend off-site. The Phase II SI activities did not completely define the degree and extent of MGP residual impacts.

2.10.4 Supplemental Site Investigation

Based on the results of the Phase I and Phase II investigations, AmerenIP determined that an Interim Removal Action (IRA) was warranted and that additional site information would facilitate completion of Interim Remedial Measures (IRM) at the site. PSC prepared a Supplemental Site Investigation (SSI) work plan to complete this additional site investigation work.

The SSI was completed in March 1997 to further assess extent and impacts of off-site residuals east of the site and to characterize materials within the below grade gas holder (GH-1) with respect to planned source removal. The SSI was also undertaken in response to the observation of increasing impacts from monitoring well UMW-103 located in the vacated Sixth Street right-of-way immediately east of the site. This well showed a trend of decreasing BTEX and naphthalene concentrations from 1990 through the first quarter of 1996; however, dense non-aqueous phase liquid (DNAPL) was discovered in the well in August of 1996.

SSI activities included GeoProbe soil sampling within the vacated Sixth Street right-of-way east of the site, test pit excavations near gas holder GH-1 and on-site immediately west of Sixth Street, and

sampling of liquids from within gas holder GH-1. Figure 2-20 illustrates the approximate locations of the SSI test pit excavations and probeholes. Ten probeholes were completed to depths ranging from six to eighteen feet bgs. Six soil samples from the probeholes were collected and analyzed for BTEX and naphthalene. Four test pits were excavated during the SSI; however, no analytical samples were collected from the test pits. Boring and test pit logs are presented in Appendix H.

Impacts from MGP residuals were observed at several locations within the vacated Sixth Street right-of-way; however, neither a source nor a pathway for these residuals was identified. No obvious NAPL migration pathways were discovered during the SSI activities. The backfill of the east-west sewer line through the site did not appear to be more permeable or more impacted than the adjacent native till materials. However, as a cautionary measure, capping of the sewer was recommended as part of the IRM.

2.10.5 Interim Remedial Measures

As noted in Section 2.10.4, AmerenIP determined that proceeding with IRM activities was warranted based on previous investigations at the remediation site. PSC prepared an IRM Work Plan during mid year 1997 and performed the IRM activities between October 10, 1997 and May 14, 1998.

The primary objective of IRM activities was to remove MGP potential source materials from the belowground gas holder (GH-1), tar wells, a tar separator, and an area of purifier waste. Fluid NAPL and MGP impacted materials from the belowground structures were blended on-site to render the material suitable for off-site thermal treatment. Purifier media was blended with the material from gas holder GH-1. Concrete, wood, metal, and other materials not accepted at the treatment facility were segregated and staged in a covered roll-off box for disposal at an AmerenIP-approved landfill. These objectives were accomplished in general accordance with the Work Plan. Figure 2-21 illustrates the approximate areas of IRM activity.

The three suspected tar wells (TW1, TW2, and TW3) northwest of gas holder GH-1 were located and excavated. All three tar wells were larger than anticipated based on historical maps of the site. Another potential tar well, TW4, northeast of gas holder GH-1, was identified as a concrete foundation pad, possibly from an oil tank. However, the entire area northeast of GH-1 was excavated to insure that no belowground structures were missed. The tar separator located south and southwest of gas holder GH-1 was excavated along with an

adjacent valve pit located to the east containing impacted materials. A test pit was also excavated in the northwest corner of the site at the location of a shallow brick manhole. No MGP residual impacts were observed at this location.

MGP residual material was treated as necessary to meet TCLP benzene limits and to make the material acceptable for shipment and for thermal treatment. The material was blended on site either within the gas holder tank or in two mixing boxes. This "MGP special waste" was shipped off site for treatment at Illinova Resource Recovery's Baldwin Thermal Treatment Facility (BTT) in Baldwin, Illinois. Approximately 8,467 tons of blended material was transported to BTT in 339 truckloads. Concrete debris and steel from gas holder GH-1, the tar wells, tar separator, purifier pads, and miscellaneous excavated foundations were segregated, the concrete was broken with a hydraulic hammer, and either disposed of as construction debris or utilized as backfill at the base of gas holder GH-1.

Approximately 487.5 tons of soil containing purifier media was excavated from an area on the southwest corner of the site, west of the Booster House. Depth of the excavation was 3 feet bgs. The excavated soil and purifier material, which was non-hazardous, was stockpiled east of gas holder GH-1. The stockpiled material was later placed directly into the gas holder GH-1 below grade tank along with clay, coal, and quicklime and blended with other tar-like materials. The purifier area excavation was then backfilled with clean fill.

Approximately 526 tons of heavily MGP impacted material was excavated from gas holder GH-1 from the depth of 7 to 16.5 feet bgs. About 100 cubic yards (CY) of concrete and steel from the cover of GH-1 were separated during the excavation process, stockpiled, broken up with a hammer hoe, and sent off site for disposal. In addition, 85,000 gallons of heavily impacted water and rainwater were pumped from gas holder GH-1 prior to and during excavation. Water was pumped from gas holder GH-1 into storage tanks, treated to meet disposal requirements, and discharged to the sanitary sewer system.

The potential source materials in gas holder GH-1, from 7 feet bgs to 16.5 feet bgs, required on-site treatment as necessary to meet TCLP benzene limits prior to disposal. TCLP benzene analytical results for the blended material were below BTT's acceptance criteria and RCRA characteristic hazardous waste levels. The blended material from gas holder GH-1 was stockpiled for subsequent shipment to BTT.

Approximately 482 tons of source material, demolition debris and impacted soils were excavated from tar wells TW1, TW2 and TW3, the tar separator and adjacent valve pit, and at CHTP-203. Test pit

CHTP-203, northeast of gas holder GH-1, was in the area of a potential fourth tar well, which was determined to be a concrete foundation. The outer walls of TW1 and TW2 were excavated and the bottoms were left intact. The walls and bottoms of TW3, the tar separator, and the valve pit were left intact. All three tar wells and the tar separator contained liquids with debris such as bricks and concrete. Heavily impacted soil, concrete and steel associated with former building foundations and walls were removed during the process of locating and excavating the tar wells. With the exception of concrete and steel debris, the impacted materials from TW1, TW2, TW3, and CHTP-203 were excavated and placed into gas holder GH-1 for treatment. The concrete and steel debris were separated during the excavation process and stockpiled prior to off-site disposal.

The source material and heavily impacted soils placed into gas holder GH-1 from the tar wells, tar separator/valve pit, and CHTP-203 required treatment to render the material acceptable for shipment and treatment at BTT.

Exploratory test trenches CHTP-201 and CHTP-202 were excavated in accordance with the Work Plan, although both trench locations were moved further east. Additional exploratory trenches were also excavated northeast of gas holder GH-1 (CHTP-203) and in the northeastern portion of the site (CHTP-204). The materials excavated from exploratory trenches CHTP-202 and CHTP-203 were heavily impacted with MGP residuals. These impacted materials were placed into gas holder GH-1 for blending and the excavations were backfilled with clean soil.

Other objectives accomplished as part of the IRM included capping the abandoned storm sewer traversing the site at the west and east terminal, and removal for off-site disposal of approximately 105 clean empty drums, two dozen wooden pallets, miscellaneous surface debris, hoses, fencing, trees, and brush.

Following site cleanup, site restoration was completed. Site restoration was conducted in accordance with the Work Plan. Approximately 780 CY of topsoil was spread over the site, final graded, seeded, and covered with straw to restore the site to grass cover.

2.10.6 Groundwater Monitoring

As noted in Section 2.10.3.6, piezometers and groundwater monitoring wells were initially installed during the Phase II Site Investigation activities. Nineteen wells were installed both on-site and off-site,

including three deep wells. Wells have been sampled for chemical analysis numerous times since initial installation in 1990 and have been sampled on a quarterly basis since 1996.

Groundwater samples were initially collected from the off-site wells UMW-101 through UMW-112 (with the exception of UMW-109 which had not yet been installed); UMW-401 through UMW-403; and piezometers UPZ-101, UPZ-301 and UPZ-303 in December 1990 (refer to Figure 2-18 for approximate well locations). A second round of groundwater samples was collected in January 1992 after the on-site wells had been installed and included all wells (UMW-101 through UMW-116) with the exception of UMW-104, which could not be located at that time. A third round of groundwater samples was collected from all wells in January 1993 with the exceptions of UMW-101 (DNAPL accumulation in the well) and UMW-107, which was obstructed at the time by a housing construction project. Piezometers UPZ-104, UPZ-105 and UPZ-106 were also sampled at this time.

Quarterly groundwater sampling at the site commenced in the first quarter of 1996. Samples were collected from selected wells (UMW-102, UMW-107, UMW-108, UMW-109, UMW-111, UMW-112, UMW-114, UMW-115 and UMW-116) and analyzed for BTEX and naphthalene. Samples from wells UMW-107 and UMW-114 were also analyzed for PAHs. Well UMW-103 was sampled until the third quarter of 1996 when DNAPL was identified in the well and sampling was discontinued. This well and wells UMW-101, UMW-401, UMW-402, and UMW-403 were subsequently abandoned in accordance with Illinois Department of Public Health guidelines. During sampling events from 1990 to 1999 no impacts were identified in the deep wells (UMW-401, UMW-402, and UMW-403) and subsequent to identification of DNAPL in wells UMW-101 and UMW-103 all five wells were sealed to prevent any potential hydraulic connection to the deeper aquifer. These five wells were sealed in August of 1999. Well UMW-111 was located in Washington Street and was subject to traffic damage. This well was also abandoned and a replacement well UMW-111R was installed nearby. During site maintenance activities and the IRM, all of the piezometers on the northern half of the site were destroyed.

Table 2-8 presents a summary of groundwater results (BTEX, PAHs, and Metals) for those wells monitored through 1999. The shallow groundwater system at the site has been impacted by MGP residuals over much of the site. The VOCs present in the impacted groundwater include benzene, ethylbenzene, toluene and xylenes. Throughout the duration of sampling activities various SVOCs have been detected in 14 of the 18 shallow monitoring wells and piezometers. Table 2-9

presents a summary of groundwater results (BTEX, PAHs) for wells monitored from 2004 through 2006.

Although the flow direction defined by the January, 1993 water levels was to the southeast, other measurements taken between December 1990 and November 1992 have also indicated flow to the northeast, southwest, and northwest. December 2006 water levels indicated flow to the north.

2.11 Enforcement Actions

No enforcement actions have been taken at the site. AmerenIP entered this site into the IEPA voluntary program known as the Site Remediation Program (formerly the Pre-Notice Program) in 1989. The site identification number is LPC # 0190100008. Since the site was entered into the SRP, plans and reports related to site activities have been reviewed and approved by the IEPA. No enforcement notices from the IEPA or other federal, state, or local agency have been received by AmerenIP.

3 COMPREHENSIVE SITE INVESTIGATION WORK PLAN

This section presents the proposed activities described in the Site Investigation Work Plan (SIWP, August 6, 2002). The investigation activities include the collection of subsurface data necessary to complete the delineation of impact to soil and groundwater and to fully characterize the site. It also includes the development of remedial objectives and the preparation of the Remedial Objectives Report (ROR). It is noted that the Champaign MGP site has had no commercial or industrial use other than the MGP since at least 1869, with the exception of the twelve year period from 1979 through 1991 when the property was used by the American Legion. During this twelve year period the American Legion used the remaining MGP structure for meetings. Based on this fact, and the fact that the surrounding area has been primarily residential over the same period, as permitted in IAC Section 740.420(b)(1) the CSI analytical program can be limited to specific MGP chemicals of concern and satisfy the requirements for a Comprehensive Site Investigation.

The sequence of activities described in the SIWP was developed to insure a dynamic investigation which could be refined throughout the duration of field activities to consider and address field observations. For example observations made during test pit activities resulted in relocating and adding additional test pits as well as adding and relocating borings. The historical information about the remediation site and the data from previous activities was used to help identify features and areas that required further data or delineation. The planned CSI activities included the following:

- Site preparation and mobilization,
- On-site excavation and sampling of test pits,
- On-site soil boring and soil sampling,
- Off-site soil boring and soil sampling,
- Re-development of existing monitoring wells,
- Groundwater sampling,
- Soil and groundwater laboratory analytical program,
- Site survey, and
- Management of investigation derived wastes.

Field activities were managed and completed by PSC and its subcontractors. Kelron Environmental of Champaign, Illinois provided on-site geological oversight for all field work including test pit excavation, GeoProbe borings, survey services, and groundwater sampling. Transhield Underground Services, Inc. of West Chicago, Illinois provided GeoProbe equipment and services. Vegrzyn, Sarver and Associates of Champaign, Illinois provided survey services and Teklab, Inc. of Collinsville, Illinois provided analytical laboratory services.

The site was entered in the SRP in January 1989 by AmerenIP and assigned the site number 0190100008. In the CSI Work Plan, activities within the railroad and street right-of-way are referred to as off-site activities. Figure 3-1 illustrates the SRP boundary and bordering property parcels.

3.1 CSI Objectives

Based on a detailed review of previous investigation results, observations made during the IRM activities, and understanding the time frame within which previous work was completed (i.e. 1986 through 1998), it was concluded that additional site specific data were necessary to fully delineate environmental impacts at the site and to provide the quantity and quality of data necessary to complete a CSIR and ROR under the SRP and TACO. The primary objective of the CSI work was to collect additional data to more completely characterize the site, including off-site areas, (i.e. delineate the degree and extent of site impacts) and to provide data which is complete and of the desired quality to allow subsequent completion of the ROR. Therefore, the primary purpose of the CSIR is to provide the IEPA with an evaluation of the horizontal and vertical extent of environmental impacts on the site.

The components of a Site Investigation (SI) and CSI are set forth in IAC Section 740.415 and Section 740.420 respectively. The CSI work plan did not include all elements set forth in these sections because many of these elements had been satisfied through the previous investigations. For example, since monitoring wells were installed in 1990 and groundwater has been monitored since that time it was not necessary to include the installation of additional wells during the CSI.

3.2 Test Pit Excavation

The objectives of the test pit portion of the CSI were two fold; one objective was to investigate potential MGP below grade structures which were not addressed during the IRM, and the second objective was to identify potential off-site migration pathways to the north and east of the site. Test pit excavation and sampling was the initial activity planned for the CSI field work. Test pits were planned to be excavated with the primary objective to identify specific MGP subsurface structures and the presence or absence of MGP residual impacts. Table 3-1 presents the general rationale for test pit excavation. Test pit activities were planned as the first element of the CSI to be completed so that observations could be considered in refining the GeoProbe program if warranted.

Test pit activities planned to use a track hoe with a minimum reach of fifteen feet. Based on previous investigation activity and current understanding of groundwater conditions, it was anticipated that the desired test pit depths in some areas of the site might not be achievable. MGP structures of interest are

primarily the gas holder foundations and intake and outlet structures. Based on observations during the IRM and other historical data, questions remained relative to the date and type of construction for gas holder GH-2. It was believed that this gas holder may have had a below grade water tank, which could contain source material or heavily impacted material and may be twenty-five feet or more deep.

Although an effort was made during the supplemental SI to identify the pathway for residuals east of the site, it was not conclusive that the east-west sewer was the only pathway for off-site migration of residuals into the vacated Sixth Street right-of-way. A test pit was planned to be excavated inside the fence and along the fence in an attempt to identify other potential migration pathways. A similar excavation was to be completed along the inside of the north fence in the general area north of gas holders GH-1 and GH-2, in an attempt to locate the pathway for the NAPL observed in monitoring well UMW-101 (now abandoned) north of the railroad right-of-way.

Any test pits excavated within structures were to be excavated to the base of the structure, if possible, and terminated. At no time would the bottom of a former MGP structure be penetrated. Test pits were to be terminated prior to reaching the target depth in the event that any of the following occurred: excessive readings from air monitoring equipment; excessive odors that could adversely impact off-site properties; buried utilities encountered in the excavation; gross infiltration of groundwater or MGP residuals; significant sidewall failure; or degradation of the integrity of the structure that is being examined. At least one soil sample representative of the excavated material was to be collected for laboratory analysis from each test pit. In addition, if impacted material was encountered, an attempt was to be made to collect a sample of the most heavily impacted material.

Test pit samples were to be analyzed for VOCs or BTEX constituents, and SVOCs or polynuclear aromatic hydrocarbon compounds (PAHs). In addition some select samples would also be analyzed for cyanide (CN), metals, and TPH.

3.3 On-Site Soil Boring and Sampling

Soil borings were to be completed on-site (i.e. the AmerenIP parcel) during the CSI. Table 3-2 presents the general rationale for each location. In general soil borings were to be advanced to a depth of approximately 25 feet bgs using a truck-mounted drilling rig with hollow stem augers. The final boring depth at each location was to be determined in the field based on observations by the site engineer/geologist. The following criteria were to be used to determine final depth:

- Auger refusal indicating a buried structure. If refusal was encountered within five feet of the ground surface, the boring location was to be shifted a few feet and re-drilled.
- Terminate in the un-weathered till after five feet with no apparent MGP impacts.
- If un-weathered till was impacted, terminate five feet below the visually impacted interval.

All borings were to be continuously sampled using split spoon or other comparable methods.

In general, a minimum of three soil samples were to be collected from each boring for laboratory analyses. A surface soil sample was to be collected from the interval from ground surface to three feet bgs at each location based on PID readings. A second sample was to be collected from the three to ten foot bgs interval, also based on PID readings, and a third from the bottom two foot interval at each boring location. In addition, if MGP impacts were observed, at least one sample from the most heavily impacted interval was to be collected. The impacted sample was to be based on PID readings and odor and visual observations. If the observed most heavily impacted interval is not consistent with the highest PID reading, two samples would be collected, one representing each interval. The goal of this sampling rationale was to define the degree and extent of MGP impacts in both horizontal and vertical directions.

3.4 Off-Site Soil Boring And Sampling

Proposed soil borings were to be completed off-site (i.e. within the railroad and Sixth Street rights-of-way). The primary objective of these borings was to define the pathway for MGP residuals identified in off-site wells during previous investigation activities and to define the lateral and horizontal extent of these residuals. Based on previous observations, these borings were to be at least 25-30 feet bgs and were to be drilled using the same methodology as described for the on-site borings in the previous section (Section 3.3). Criteria for depth of termination were to be the same as for the on-site borings.

Borings were to be drilled north of the north property fence in the railroad right-of-way in the N. Sixth Street right-of-way east of the property fence. Exact locations for these borings were to be established in the field after completion of the on-site test pits and borings. Additional off-site borings were anticipated and would be located based on observations of the initial borings.

3.5 Groundwater Sampling

Quarterly groundwater monitoring at the site has been underway since 1997 and has included nine wells on and around the site. Also, groundwater level data has been collected from those nine wells and five additional wells. Existing well locations are illustrated on Figure 2-18.

Fourteen monitoring wells were sampled for chemical analysis. Water level measurements were to be obtained from all wells using an electronic water level indicator and recorded on field logging forms. Depth to the bottom of each well would also be measured and recorded, and presence of NAPL will be noted.

Groundwater sampling activities were initiated approximately two weeks after well installation and development had been completed. After collection of water level data and prior to sampling, each of the fifteen wells would be purged of a minimum of three well casing volumes of water. During purging, field measurements of pH, specific conductivity, temperature, and dissolved oxygen would be measured until these parameters had stabilized to within ten percent of the previous reading. Wells would be slow purged and groundwater samples collected using a peristaltic pump with dedicated disposable tubing.

3.6 Site Survey

As a result of inconsistent survey data from previous investigations, it was determined that a complete site survey and development of a new site base map was warranted. An Illinois licensed surveyor would determine the horizontal location, ground surface elevation, and top of casing elevation for all monitoring wells. The location and ground surface elevation for each test pit and boring would be determined. Elevation data would be referenced to a National Geodetic Vertical Datum (NGVD), or local permanent datum, based on availability. Horizontal coordinates would be referenced to the Illinois State Plane Coordinate system or to a local permanent reference point. In addition, other points of reference identified by the site engineer/geologist, such as fence corners, buildings, sewer manholes, etc. would be surveyed for elevation and coordinates. The data collected by the surveyor would be used to prepare a site base map to be used for the CSI Report.

3.7 Analytical Program

Both soil and water samples were to be collected during CSI activities for chemical analysis at an off-site laboratory. During sample collection, samples were to be placed in laboratory provided containers and labeled according to matrix, sample location, date, and analytical method. Quality control (QC)

samples, which include trip blanks, field blanks, duplicates, and matrix spikes were collected to assess the quality of the data resulting from the field sampling program.

Soil samples were to be collected from test pits, and on-site and off-site soil borings. It was anticipated that in excess of eighty-five soil samples would be sent to the laboratory for analysis. Since analytical data were available from the Phase II investigation and a relatively large number of additional samples were to be collected, complete analyses of all samples for all parameters would not be necessary. The analytical rationale would be to complete a full VOC and SVOC analysis on approximately every fifth sample; the remaining four samples were to be analyzed for only BTEX and PAH constituents.

Soil samples were to include a minimum of one sample from each test pit and three samples from each boring. Surface soil samples were also to be analyzed for RCRA metals and cyanide. Select samples were to be analyzed for TPH constituents based on PID readings and visual observations. In addition, at least one QA/QC sample was to be collected for every ten soil samples.

The analytical methods to have been used for soil samples included the following:

- SW-846; Method 8260 (BTEX & VOC parameters)
- SW-846; Method 8270 SIM (PAH & SVOC parameters)
- SW-846; Method 8015 (TPH constituents)
- SW-846; Method 9010 (total Cyanide)
- SW-846; Methods 6000 & 7000 series (RCRA metals)
- SW-846; Method 9045C (pH)

Soil samples submitted for BTEX and VOC analysis were to be collected in accordance with Method 5035. One of every five soil samples was to be analyzed for the entire IAC Section 740 Appendix A list of VOCs (Table A) and the remaining samples would only report for BTEX parameters. One out of every five soil samples collected for SVOC analysis would be reported for all parameters identified in IAC Section 740 Appendix A (Table B). Arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver were to be the parameters reported for soil samples analyzed for metals.

Groundwater samples would be collected from fourteen pre-existing monitoring wells. In addition, three duplicate samples would be collected for QA/QC purposes. The analytical methods were to include the following:

- SW-846; Method 8260 (BTEX)
- SW-846; Method 8310 (PAHs)

4 COMPREHENSIVE SITE INVESTIGATION FIELD INVESTIGATION

As required in IAC Section 740.425(b)(4), the following sections provide documentation of the field activities that were performed to characterize the site. Investigation activities as defined in IAC Section 740 were performed during June through August 2004. In addition certain activities defined in IAC Section 740 were performed during earlier investigations completed in 1986, 1990, 1997, and 1998. Only those activities completed during 2004 are discussed in this section. Elements applicable to completion of this CSIR that were completed previously are presented in earlier sections of this report. The principal CSI activities completed during 2004 included excavation and sampling of test pits, logging and sampling of probeholes, and groundwater sampling. The following sections address the CSI activities in detail:

- Test pit excavation and sampling;
- GeoProbe completion and sampling;
- Well redevelopment and groundwater sampling;
- Site survey and base map development;
- Investigation waste management and disposal;
- Quality assurance / quality control activities; and
- Deviations from site sampling plan.

4.1 Test Pit Excavation and Sampling

During the week of July 5, 2004 nine (9) test pits (identified as TP-501 through TP-510) were excavated as part of the CSI field activities. The proposed location and rationale for these test excavations is presented in Section 3.2 of this CSIR. The objective of these excavations was to investigate below grade MGP structures and to evaluate potential off-site migration pathways. Figure 4-1 illustrates the actual locations where test -pits were excavated. Each test pit was supervised by the site engineer/geologist, who made a field determination relative to the nature of the material being excavated. Any material deemed to be moderately or heavily impacted, was placed into a roll-off container for subsequent off-site. Soils were classified in accordance with ASTM Standard D 2488-90. Data recorded included field observations, including PID readings, characterization of soils, and indications of impacts such as stained soils or odors. MGP structures were described and photographs taken. The subsequent paragraphs provide brief descriptions of observations made at each test pit location.

Test Pit TP-501: Test Pit TP-501 was excavated on July 8, 2004 and oriented approximately north-south inside the site fence and approximately parallel to the vacated Sixth Street right-of-way. The objective of this excavation was to identify preferential pathways for MGP impact. Test Pit TP-501 was approximately 52 feet long, 5 feet wide, and 5 to 7.5 feet deep. The following four soil horizons (from ground surface down) were observed in the walls of the excavation:

- Horizon A – medium brown moist fill (1 to 1.5 feet thick), primarily clay with sand, gravel, brick (PID=2.5 ppm)
- Horizon B – black silty clay to clay (2.5 to 3 feet thick) with brick, tile, and cinders, and a tar-like odor (PID=5.7 ppm)
- Horizon C – dark gray to black silty clay (1 foot thick) with tar-like odor
- Horizon D – gray to olive gray clay to silty clay (greater than 2.5 feet thick), soft and wet, water seeps below 5 foot depth, impacted (PID=289 ppm) with immiscible hydrocarbon oil-like fluid, tar-like odor, some yellow to yellow-orange staining

In addition, a layer of broken brick was observed at a depth of about 3 feet bgs. This may be the remnant of the original surface of Hill Street, which bisected the site between Fifth and Sixth Streets. A 24-inch diameter cast iron gas main was encountered at 6 to 7.5 feet of depth perpendicular to the trench (i.e. parallel to Hill Street) and about 15 feet from the southern end of the test pit. A hydrocarbon-like liquid was observed seeping out of the sidewall of the trench along the contact between Horizon C and Horizon D. A soil sample [TP501(7)] was collected from the 6 to 7 foot depth interval for chemical analysis.

Test Pit TP-503: Test Pit TP-503 was excavated on July 8, 2004 outside and parallel to the north property fence along the railroad right-of-way. This trench was a composite of proposed test pits TP-502 and TP-503 excavated to evaluate potential migration pathways from the site toward former monitoring well UMW-101. Test Pit TP-503 was approximately 97 feet long, 5 feet wide and 4 to 5 feet deep. The upper 4 feet of material was generally a loose black fill composed of ash, cinders, slag, clinker, and gravel. Water seeps with a hydrocarbon sheen were observed at approximately 2.5 feet bgs. Tar-like odors were also observed and PID readings from the 2 to 4 foot depth ranged from 12 ppm to 34.8 ppm. along the entire length of the trench. A gray silty clay was observed below the 4 foot depth. The clay had a tar-like odor and a PID reading of 18 ppm near the west end of the excavation.

There were variations observed along the length of the trench with respect to the rate of water inflow, hydrocarbon-like sheen, tar-like odors and possible NAPL material. However, the inflow rate was sufficient to limit the depth of

excavation to 5 feet or less. Two soil samples [P-503(3) and TP-503A(3.5)] were collected from TP-503 for chemical analysis.

Test Pit TP-504: Test Pit TP-504 was excavated on July 8, 2004 along the outside west edge of gas holder tank GH-1 to investigate the inlet/outlet sump and/or valve pit for that gas holder. The contents of GH-1 were excavated and disposed of during the IRM activities in 1997. Test Pit TP-504 was approximately 29 feet in length, 10 to 16 feet wide and 4 to 6 feet deep. The top of gas holder GH-1 wall was encountered at 2 feet bgs. Clean brown sand was encountered inside the gas holder GH-1 tank and the following three soil horizons were identified outside of the tank wall:

- Horizon A – one foot of clean sand fill with light brown clay topsoil at the ground surface
- Horizon B – fill composed of cinders, clay, ash-like material, brick, and piping all heavily stained with strong tar-like odor (1 to 4 ft. bgs)
- Horizon C – gray to olive gray clay with staining and tar-like odor (4 to 6 ft. bgs)

Four pipes were encountered during excavation. Two metal pipes (4 inch-diameter and 1 inch-diameter) were observed above the gas holder wall and parallel to the wall. A 4 inch-diameter clay pipe was observed approximately 3 feet bgs and a 3 inch-diameter metal pipe containing tar-like material was observed at a depth of about 2.5 feet bgs. Both the clay pipe and 3 inch metal pipe were oriented approximately north-south and approximately 4 to 5 feet east of the gas holder wall. Soil sample TP-504(3) was collected for chemical analysis.

Test Pit TP-505: Test Pit TP-505 was excavated on July 6, 2004 along the northwest edge of gas holder GH-3 to investigate the valve vault/pit and outlet piping. The primary objective of the excavation was to locate outlet piping shown on a 1922 site plan and determine the presence or absence of MGP residual impacts. Test pit TP-505 was approximately 39 feet long, 7.5 to 8 feet wide, and 5 to 7 feet deep. The following three soil horizons were observed in the excavation:

- Horizon A – dry light brown clay and gravel fill (0.5 to 1 foot thick) with some sand, no odor noted (PID=2.9 ppm)
- Horizon B – medium brown moist silty clay (1.5 to 2 feet thick), no odor noted (PID=37 ppm at 2 ft. bgs)
- Horizon C – silty clay to clay, black with residual staining of tar-like material, wet below 4 ft., strong tar-like odor (PID=137 ppm)

The brick holder foundation was encountered from 1 foot to 6.5 feet in the southeast wall of the excavation. The concrete top of valve vault/pit was encounter at about 2 feet bgs. The valve pit is approximately 8 by 8 feet,

constructed of concrete, and is tied into the holder foundation. The vault/pit bottom is about 7.5 feet bgs and contained water and 3 to 3.5 feet of tar-like material. Strong tar-like odors were noted when the cover was removed from the valve vault/pit. No sample of the liquid was collected.

Test Pit TP-506: Test Pit TP-506 was excavated on July 6 and 7, 2004 adjacent to the GH-3 gas holder foundation to investigate the holder inlet piping. The excavation was 'L' shaped with one leg excavated to expose the tank holder slab and the second leg approximately parallel to the foundation wall. The leg outside of the slab was oriented east-west and was approximately 18 feet long, 5 feet wide and 8 feet deep. The leg on the holder slab exposed an area approximately 15 feet long and 10 feet wide. The holder slab is approximately 3 feet bgs. The inlet pipe vault/pit was located inside the holder foundation; however, no vault was found outside the foundation. The vault/pit is approximately 8 feet long, 2 feet wide and 5.5 feet deep below the bottom of the slab (i.e. about 8.5 feet bgs). The vault/pit has a concrete cover and approximately 3 feet of water and tar-like material was observed in the bottom of the vault/pit. The following soil horizons were observed in the trench outside of the holder foundation:

- Horizon A – light brown clay fill (0 to 1 ft.) with coarse gravel (PID = 4ppm)
- Horizon B – black clay with staining, strong tar-like odor

Test Pit TP-507: Test Pit TP-507 was excavated on July 7, 2004 adjacent to the southwest edge of gas holder GH-2. The purpose of this trench was to locate the outlet piping vault/pit and assess potential impacts of residuals. The trench excavation was in excess of 35 feet long approximately perpendicular to the GH-2 holder wall and 15 to 20 along the wall. Several pipes were identified both inside and outside of the wall. The gas holder GH-2 wall is 1 to 1.5 feet wide, constructed of concrete or possibly brick with a concrete veneer and the top is about 1 foot bgs. The concrete wall was impacted with tar-like material and was exposed to a depth of 8.5 feet. Material within the holder consists of fill with brick, clay and wood to a depth of about 2 feet. Below 2 feet the material is primarily clay impacted with tar-like residuals.

In addition, a two-compartment vault was observed inside the wall. The entire vault was not exposed; however, it is about 10 feet long and constructed of brick. The cover is constructed of wood and concrete and was encountered about 2.5 feet bgs. The compartment nearest the wall is filled with viscous tar-like material and the other compartment is filled with what appeared to be water. A soil sample, TP-507(3.5), was collected from north of the vault for chemical analysis.

Test Pit TP-508: Test Pit TP-508 was excavated on July 8, 2004 in the area northwest of gas holder GH-2 and south of the fence. This excavation was oriented approximately northeast southwest and was about 35 feet in length.

The objective of TP-508 was to locate the inlet pipe and valve pit for the 20 inch gas main shown on the 1922 site plan. In addition the excavation was located in the general area where a curved brick wall (assumed to be gas holder GH-2 wall) was observed during the IRM activities. Neither the brick wall nor the pipe and valve pit were encountered. The western portion of the excavation encountered the clean sand backfill from the IRM and the eastern portion encountered moderately to heavily impacted material at 1 foot bgs. The impacted side of the test pit was excavated to depths of 6 to 8 feet. A soil sample, TP-508(4), was collected from a heavily impacted area of the excavation.

Test Pit TP-509: Test Pit TP-509 was excavated on July 7, 2004 to locate the east wall of the holder tank for GH-2. The excavation was oriented approximately east west and was about 30 feet long and 5 to 10 feet wide. The depth was between 3.5 and 4 feet and was limited due to the inflow of water. The material encountered from the surface to about 2 feet was composed of cinders, ash, brick, pipe and concrete and exhibited low levels of MGP residual impacts. Material below 2 feet was similar but was more heavily impacted with tar-like material. The gas holder wall for GH-2 was not encountered. No soil samples were collected from TP-509.

Test Pit TP-510: Test Pit TP-510 was excavated on July 7, 2004 to locate the gas holder wall for GH-2. The excavation was approximately 28 feet long, 5 feet wide, 4.5 feet deep and oriented northwest to southeast. The inflow of perched groundwater limited the depth. The top of a wall, possibly GH-2, was encountered about 1.5 feet bgs and is constructed of brick and approximately 2 feet wide. Tar-like impacts were noted on both the inside and outside of the wall and water seeping into the excavation was heavily impacted with both tar-like and petroleum-like materials. Three 2-inch pipes were encountered and contained tar-like material. The following three soil horizons were encountered:

- Horizon A – Fill containing clay, rock and soil from ground surface to about one foot bgs
- Horizon B – Clay with brick and cinder fill (1-2.5 ft. bgs), slightly impacted
- Horizon C – Dark gray to black clay, highly impacted with tar-like material

Summary: Nine test pits were excavated at the locations identified in Figure 4-1. Test pit depths were less than anticipated due to presence of groundwater, although depth to water and inflow rates varied considerably over relatively short lateral distances. Evidence of impacts from MGP residuals was observed in all test pits and six soil samples were collected for chemical analysis. The objective of locating below grade structures was generally successful; however, the exact location of GH-2 holder wall was not

defined. The encountering of fill within the area of GH-2 and not encountering a slab, indicates that GH-2 was likely a below grade holder instead of a former aboveground structure. Although heavily impacted material and NAPL were identified in both TP-501 and TP-503, due to the relatively shallow depths they are not likely the pathways contributing to DNAPL in the two abandoned off-site wells.

4.2 Soil Boring And Sampling

As noted previously, several phases of soil sampling have been completed at the site since initial investigation activities were initiated by AmerenIP in 1986. Summary details relative to these previous activities were presented in Section 2. This section presents details relative to CSI field activities completed during July 2004. Fourteen onsite and eleven offsite soil boring locations were originally proposed in the Comprehensive Site Investigation Work Plan (CSIWP). Based on data obtained during test trenching and while advancing probeholes, twenty-seven probeholes were completed (Figure 4-2).

A modification was made to the CSIWP and soil sampling was completed using a GeoProbe system instead of with a drill rig. The site engineer/geologist logged each sample and recorded information on field logging forms. Soil type, recovery, observations relative to odors and impacts were to be recorded. Soil samples were classified in accordance with ASTM Standard D2488-90 (Standard Practice for Description and Identification of soils (Visual-Manual Procedure)). Each sample was field screened for organic vapor concentrations using a PID and the results recorded in the field logs. A 4-foot long, 1 ½-inch diameter MacroCore^{TM} sampler was advanced using direct-push methods. All probe locations were continuously sampled and samples were recovered in disposable acetate liners. Based on observations made during previous site activities, probeholes were driven to a depth of at least 24 feet with the final termination depth determined in the field by the site geologist. Rationale for termination was based on lack of visual or olfactory impacted material. The maximum depth sampled was 32 feet.

Upon retrieval of the sample the acetate liner was opened and all recovered sample material was scanned for the presence of VOCs using a PID. Representative material was collected from each one-foot interval for determination of volatiles using head-space analysis. These data were logged on the geologic drilling logs and were used in the field to aid in selection of intervals to be sampled for laboratory chemical analysis.

Recovered soil samples were described and logged by the site geologist immediately upon opening the acetate liner. Descriptions included sample recovery; sample interval; stratum thickness; depth of lithology change; color; approximate grain size; indications of contamination; macro-features and

physical characteristics; and soil classification according to the Unified Soil Classification System (ASTM D 2487 and D 2488). "Record Of Subsurface Exploration" logs were completed for each probe location and are presented in Appendix I.

Soil sampling rationale was to collect a minimum of three samples from each probehole location; one sample from ground surface to three-foot of depth, one sample between three feet and ten feet of depth, and one sample below ten feet. Additional samples were to be collected based on head-space PID results and visual observations by the field geologist. In general, at least four samples were collected from each location and five or six samples were collected from several locations. Details relative to the analytical program are presented in a subsequent section of this chapter. Table 4-1 presents a summary of soil properties based on observations and soil sampling and Figure 4-2 shows probehole locations with respect to historic MGP structures. Table 4-2 presents a summary of soil parameters analyzed. The following paragraphs provide brief descriptions of observations made for each sample location.

B-501: Probehole B-501 was completed on July 13, 2004 to a total depth of 24 feet bgs at a location on the west side of the property adjacent to the Hill Street gate. Four soil samples were collected for chemical analysis. Two impacted zones were observed; one between 8 and 10 feet bgs, and a second between 14 and 15 feet bgs. Analytical samples were collected from both impacted zones. Based on field measurements, the interval with the highest PID level was 14 to 15 feet bgs. Soils below 16 feet bgs did not appear to be impacted.

B-502: Probehole B-502 was completed on July 13, 2004 to a total depth of 24 feet bgs at a location approximately 75 feet north of B-501. Four soil samples were collected for chemical analysis. Impacts were observed from a depth of 5 to 12 feet bgs and two analytical samples were collected from that zone. Based on field measurements, the interval with the highest PID level was 11 to 12 feet bgs. Soils below 13 feet bgs did not appear to be impacted.

B-503: Probehole B-503 was completed on July 13, 2004 to a total depth of 28 feet bgs at a location near the north fence line west of 5th Street and approximately 20 to 25 feet from the former tar wells that were excavated during the IRM activities. Five soil samples, including one duplicate, were collected for chemical analysis. Two general zones of impacts were observed; one between 6 and 10 feet bgs, and a second between 12 and 15 feet bgs. Based on field measurements, the interval with the highest PID level was 10 to 11 feet bgs. Soils below 15 feet bgs did not appear to be impacted.

B-504: Probehole B-504 was completed on July 13, 2004 to a total depth of 28 feet bgs at a location north of gas holder GH-2 near the north fence line. This location is between holder tank GH-1 and UMW-101 where tar-like

DNAPL was identified in 1997. Six soil samples, including a duplicate, were collected for chemical analysis. Impacts were observed from about one foot bgs to a depth greater than 20 feet bgs. Based on field measurements, the interval with the highest PID level was 20 to 21 feet bgs. Soils below 24 feet bgs did not appear to be impacted.

B-505: Probehole B-505 was completed on July 14, 2004 to a total depth of 28 feet bgs at a location within the footprint of gas holder GH-2. Five soil samples were collected for chemical analysis. Impacts were generally observed from 3 feet bgs to through 21 feet bgs. Based on field measurements, the interval with the highest PID level was 5 to 6 feet bgs. Soils below 21 feet bgs did not appear to be impacted. No solid bottom was encountered for gas holder GH-2.

B-506: Probehole B-506 was completed on July 22, 2004 to a total depth of 28 feet bgs at a location near the central area of the site in the vacated Hill Street right-of-way. Four soil samples were collected for chemical analysis. Several zones of impacts were observed from 3 feet bgs to 17 feet bgs. Based on field measurements, the interval with the highest PID level was 16 to 17 feet bgs. Soils below 18 feet bgs did not appear to be impacted.

B-507: Probehole B-507 was completed on July 21, 2004 to a total depth of 28 feet bgs at a location approximately 50 feet northeast of B-506. Four soil samples were collected for chemical analysis. Although impacts were observed from 3 feet bgs to 17 feet bgs, two significant zones of impact were noted; one between 5 feet bgs and 8 feet bgs, and a second from 12 feet bgs to 18 feet bgs. Based on field measurements, the interval with the highest PID level was 12 to 18 feet bgs. Soils below 18 feet bgs did not appear to be impacted.

B-508: Probehole B-508 was completed on July 19, 2004 to a total depth of 28 feet bgs at a location near the northeast corner of the site. Four soil samples were collected for chemical analysis. Slight to moderate impacts were noted from 4 feet bgs through 5 feet bgs and heavier impacts were observed at the 11 to 12 foot depth. Based on field measurements, the interval with the highest PID level was 10 to 11 feet bgs. Soils below 12 feet bgs did not appear to be impacted.

B-509: Probehole B-509 was completed on July 21, 2004 to a total depth of 28 feet bgs at a location within the Hill Street right-of-way approximately 65 feet east of the Sixth Street gate. Five soil samples, including one duplicate, were collected for chemical analysis. Impacts were noted at 7 and 9 feet bgs. Based on field measurements, the interval with the highest PID level was 17 to 18 feet bgs. Light staining was observed at that depth, although PID readings below 10 feet bgs were minor.

B-510: Probehole B-510 was completed on July 12, 2004 to a total depth of 28 feet bgs at a location approximately 60 feet from the southeast corner of the site. Four soil samples were collected for chemical analysis. No visible evidence of impacts was observed at this sampling location. All PID readings from this location were minor with the highest reading recorded at 1 to 2 feet bgs.

B-511: Probehole B-511 was completed on July 12, 2004 to a total depth of approximately 3 feet bgs at a location near the center of gas holder GH-3. This probehole confirmed the depth from ground surface to the foundation slab for gas holder GH-3. No soil samples were collected.

B-512: Probehole B-512 was completed on July 12, 2004 to a total depth of 24 feet bgs at a location near the south fence line east of the former fuel tanks. Four soil samples were collected for chemical analysis. Impacts were noted near the surface and in the 6 to 8 foot bgs interval. Based on field measurements, the interval with the highest PID level was 7 to 8 feet bgs. Soils below 9 feet bgs did not appear to be impacted.

B-513: Probehole B-513 was completed on July 12, 2004 to a total depth of 24 feet bgs at a location near the southwest corner of the site. Five soil samples, including one duplicate, were collected for chemical analysis. Hydrocarbon impacts were observed in the 6 to 9 foot bgs interval. Based on field measurements, the interval with the highest PID level was 7 to 8 feet bgs. Soils below 10 feet bgs did not appear to be impacted.

B-514: Probehole B-514 was completed on July 22, 2004 to a total depth of 28 feet bgs within the Hill Street right-of-way approximately 15 feet north of the Booster House. Five soil samples, including one duplicate, were collected for chemical analysis. Several impacted zones were observed between depths of 3 and 16 feet. Heavily impacted zones were noted between depths of 10 and 16 feet. Based on field measurements, the interval with the highest PID level was 16 to 17 feet bgs. Soils below 20 feet bgs did not appear to be impacted.

B-515: Probehole B-515 was completed on July 16, 2004 to a total depth of 32 feet bgs at a location within the footprint of gas holder GH-2. Four soil samples were collected for chemical analysis. Impacts were noted throughout most of the probehole. Based on field measurements, the interval with the highest PID level was 18 to 19 feet bgs. Soil below 24 feet bgs did not appear to be impacted.

B-516: Probehole B-516 was completed on July 22, 2004 to a total depth of 24 feet bgs at a location approximately 75 feet south of B-506. Five soil samples, including one duplicate, were collected for chemical analysis. Impacts were observed at several depths from 3 to 14 feet bgs. Based on

field measurements, the interval with the highest PID level was 5 to 6 feet bgs. Soils below 14 feet did not appear to be impacted.

B-550: Probehole B-550 was completed on July 20, 2004 to a total depth of 28 feet bgs at a location approximately 60 feet north of B-503 in the right-of-way north of the site. Five soil samples were collected for chemical analysis. Impacts were observed at several zones between 2 feet and 17 feet bgs. Based on field measurements, the interval with the highest PID level was 11 to 12 feet bgs. Soils below 18 feet did not appear to be impacted.

B-551: Probehole B-551 was completed on July 15, 2004 to a total depth of 28 feet bgs at a location in the north right-of-way approximately 50 feet east of B-550. Four soil samples were collected for chemical analysis. Impacts were observed between 8 and 12 feet bgs. Based on field measurements, the interval with the highest PID level was 11 to 12 feet bgs. Soils below 12 feet bgs did not appear to be impacted.

B-553: Probehole B-553 was completed on July 14, 2004 to a total depth of 32 feet bgs at a location in the north right-of-way approximately 65 to 70 feet north of gas holder GH-2. Six soil samples, including one duplicate, were collected for chemical analysis. Impacts were noted from between 2 feet and 28 feet bgs. Based on field measurements, the interval with the highest PID level was 23 to 24 feet bgs. Soils below 28 feet bgs did not appear to be impacted.

B-554: Probehole B-554 was completed on July 15, 2004 to a total depth of 32 feet bgs at a location in the north right-of-way approximately 60 feet east of B-553. Five soil samples, including one duplicate, were collected for chemical analysis. Three zones of impacted soils were observed from between 3 feet to 26 feet bgs. Based on field measurements, the interval with the highest PID level was 17 to 18 feet bgs. Soils below 26 feet bgs did not appear to be impacted.

B-556: Probehole B-556 was completed on July 20, 2004 to a total depth of 28 feet bgs at a location along the north edge of the AmerenIP property boundary, approximately 50 feet southeast of B-554. Five soil samples, including one duplicate, were collected for chemical analysis. Several zones of impacts were observed from between 3 feet and 20 feet bgs. Based on field measurements, the interval with the highest PID level was 19 to 20 feet bgs. Soils below 20 feet bgs did not appear to be impacted.

B-557: Probehole B-557 was completed on July 20, 2004 to a total depth of 24 feet bgs at a location in the north right-of-way near the northeast corner of the site. Four soil samples were collected for chemical analysis. Minor impacts were observed from between 6 feet and 13 feet bgs. Based on field measurements, the interval with the highest PID level was 11 to 12 feet bgs. Soils below 13 feet bgs did not appear to be impacted.

B-558: Probehole B-558 was completed on July 19, 2004 to a total depth of 28 feet bgs at a location in the vacated Sixth Street right-of-way approximately 50 feet east of the northeast corner of the site. Five soil samples were collected for chemical analysis. Minor impacts were observed from between 5 feet and 18 feet bgs. Based on field measurements, there were significantly elevated PID levels at this location. Soils below 18 feet bgs did not appear to be impacted.

B-559: Probehole B-559 was completed on July 19, 2004 to a total depth of 28 feet bgs at a location near the south end of the vacated Sixth Street right-of-way. Five soil samples, including one duplicate, were collected for chemical analysis. No impacts were observed at this location and no elevated PID levels were recorded.

B-560: Probehole B-560 was completed on July 15, 2004 to a total depth of 28 feet bgs at a location approximately 50 feet north of B-559 in the vacated Sixth Street right-of-way. Six soil samples, including one duplicate, were collected for chemical analysis. Some residual impacts were observed within a sand unit in the 11 to 13 foot bgs interval. Based on field measurements, the interval with the highest PID level was 12 to 13 feet bgs. Soils below 13 feet bgs did not appear to be impacted.

B-561: Probehole B-561 was completed on July 15, 2004 to a total depth of 32 feet bgs north of the site at a location within the railroad right-of-way. Six soil samples, including one duplicate, were collected for chemical analysis. This probehole location is adjacent to the former location of monitoring well UMW-101 (screened between 14 and 26.5 feet) where tar-like DNAPL was observed in 1997. Residual impacts were observed from depths of 7 to 16 feet bgs. Based on field measurements, the interval with the highest PID level was 12 to 13 feet bgs. Soils below 16 feet bgs did not appear to be impacted.

B-562: Probehole B-562 was completed on July 15, 2004 to a total depth of 32 feet bgs at a location in the railroad right-of-way north of the tracks approximately 35 feet east and south of B-561. Four soil samples were collected for chemical analysis. Residual impacts were observed from 8 to 16 feet bgs, although recovery of soil material from this interval was poor. Based on field measurements, the interval with the highest PID level was 13 to 14 feet bgs. Soils below 16 feet bgs did not appear to be impacted.

Summary: Twenty-seven probeholes were completed (Figure 4-2) to depths ranging from twenty four to thirty two feet. One probehole (B-511) was completed to a depth of only three feet to verify the presence of GH-3 holder foundation slab. Three probeholes (B-558 through B-560) were completed within the vacated Sixth Street right-of-way and seven probeholes (B-550 through B-557 and B-561 & B-562) were completed within the railroad right-of-way. The remaining seventeen probeholes (B-501 through B-516, and B-556) were completed on the AmerenIP owned parcel. At least four soil

samples were collected from each probehole with the exception of B-511. No samples were collected at that location. Evidence of environmental impacts was noted at all probehole locations with the exception of B-510 and B-559. Observed impacts tended to be both greater and deeper in the northern portion of the site, including the railroad right-of-way north of the site.

4.3 Groundwater Sampling

As discussed in Section 2.10.3.6, groundwater monitoring wells were installed during site investigation activities completed in 1990 and 1991. Section 3.5 presents a summary of groundwater activities planned for the CSI, which was completed in 2004. The following paragraphs provide a brief summary of groundwater related activities completed at the site. Since 1990, a total of 19 wells have been installed on and adjacent to the site. During the intervening period, five of those wells have been abandoned. Figure 4-3 shows the location of the sixteen wells currently included in the groundwater monitoring program.

The first groundwater samples were collected during the Phase IIA and IIB investigations (1990 and 1991). These samples were collected from the 16 shallow (UMW-101 through UMW-116) and three deep monitoring wells (UMW-401 through UMW-403). Subsequent rounds or partial rounds of groundwater sampling were performed in January 1993, during 1996 and 1999.

Based on groundwater analytical results and site observations, five of the original 19 wells were abandoned in August 1999. Two wells (UMW-101 and UMW-103) were abandoned as a result of DNAPL accumulations within the wells. It was believed that representative samples of groundwater could not be obtained from these wells. The three deep wells (UMW-401, UMW-402, and UMW-403) were abandoned to eliminate potential pathways for contamination from the shallow soil horizons. Analytical results for samples from these wells prior to August 1999 indicated no impacts from MGP residuals. Abandonment of these five wells was approved by IEPA.

Since 1999, monitoring wells have been sampled on a quarterly basis and analyzed for select MGP constituents (primarily BTEX constituents and naphthalene). Table 2-10 presents a summary of groundwater sample results from all monitoring events.

4.4 CSI Laboratory Analytical Program

The proposed CSI analytical program has been presented in Section 3.7 along with sample handling procedures and sampling rationale. Analytical methods are also presented in Section 3.7 and all analyses were consistent with the

work plan. One hundred eleven soil samples and eleven duplicate samples were collected for laboratory chemical analysis from the CSI probeholes advanced in 2004. Six soil samples were collected for laboratory analysis from CSI test pit excavations. Table 4-2 presents a summary of analyses completed for these samples. Fourteen groundwater samples were collected from both on-site and off-site monitoring wells. Figure 4-4 presents a composite of all CSI sampling locations. In addition samples of investigation derived waste material, both liquid and solid, were collected and analyzed for disposal characteristics. All laboratory analyses were completed by TekLab. Results of laboratory analyses are discussed in detail in Section 5 of this report.

Samples were protected from breakage and shipped in coolers. Coolers were transported and delivered to the lab by PSC field staff. Ice was used to maintain a temperature of 4 degrees C. All soil and water samples were delivered to Teklab. The laboratory provided a data quality objective (DQO) level III data package upon completion of analysis.

4.5 Management of Investigation Waste

All equipment and materials used in drilling, sampling, and monitoring well construction were decontaminated prior to use at the site. In addition, all sampling equipment was decontaminated between samples and all drilling and geoprobe equipment decontaminated between boreholes.

All equipment and material coming into contact with potentially impacted material or the sample medium was decontaminated before, between, and after usage or properly discarded after becoming contaminated. Equipment was washed using a laboratory- grade detergent followed by clean-water and distilled-water rinses.

The following materials generated during CSI activities were containerized and stored on site:

- Test pits – impacted soils that could not be replaced into test trenches were deposited in roll-off boxes;
- Geoprobe – soils materials not used for analytical samples were placed in roll-off boxes;
- Well development – water generated from re-development of monitoring wells was contained in 55-gallon drums;
- Well purging – purge water from groundwater sampling was contained in 55-gallon drums;
- Decontamination fluids – water and other fluids from equipment decontamination was contained in 55-gallon drums; and

- Disposable protective clothing and equipment – was contained in roll-off boxes.

The drilling- and sampling-generated soil, spoils, fluids, and groundwater were separated as liquid or solids. All containers were clearly marked with indelible marker or paint. Each container was labeled with the type of waste contained, the location generated (when applicable), and the date sealed. Upon completion of CSI field activities all containers, liquids and solids were sampled and analyzed for disposal parameters. Materials were subsequently disposed of at approved off-site facilities.

4.6 CSI Quality Assurance Activities

During CSI field activities certain records were maintained in logbooks and/or on field forms for sampling events and daily activities during the investigations. The following sections describe the major documentation and record keeping activities.

Each sample collected for chemical analysis was assigned a specific identifier based upon the sample location designation. The specific designation for groundwater and soil samples was based upon the monitoring well, test trench, or borehole number.

Each sample submitted for chemical analysis was properly sealed immediately after collection. All sample containers were labeled to prevent misidentification of samples. The label included at a minimum the following information:

- name of collector;
- date and time of collection;
- location;
- sample number; and
- requested analyses.

All groundwater characterization samples were placed on ice immediately following field collection. The intent was to lower the fluid temperature near to (but above) freezing as soon as possible to decrease the rate and minimize the amount of physicochemical change of the sample before submittal to the analytical laboratory. All containers in a groundwater sample set were additionally identified to indicate each as a part of a specific set.

All information pertinent to a field survey or sampling event was recorded in a field logbook (or series of logbooks). The field logbook is a bound book with consecutively numbered pages. Field logbooks were completed in a thorough

manner so that later modifications or additions were not necessary. These logbooks became a part of the permanent file for the investigation.

Entries in the field logbooks detailed three basic categories of information:

- site activities log – site visits, site reconnaissance (specific purpose), daily activities, documentation of procedures, and environmental monitoring data;
- photo and survey data log – photo descriptions and survey data (well locations and elevations); and
- sampling data log – pre-sampling well development/evacuation data (applies to sampling monitoring wells) and sampling data.

Site activity entries were completed on a daily basis to record all relevant site investigation information. The photo/survey log and sampling log were completed on an "as performed" basis.

The field logbook was kept throughout the field sampling operations to document relevant information concerning sample generation, preparation, and field data. All well development/flushing data, sampling activities, and measurement data, were recorded on specified forms (provided weather conditions were dry) and filed in a three-ring binder. When rainy conditions occurred, information was recorded in the field logbook and then transferred at a later time. Specific forms and documentation requirements were contained in the QAPP.

5 CHEMICAL ANALYTICAL RESULTS

Chemical analyses were performed on soil and groundwater samples obtained during CSI activities completed during 2004. Samples were delivered to and analyzed by TekLab. Analytical parameters included VOCs, SVOCs, BTEX, PAHs, cyanide, RCRA metals, and TPH. Analyses specific to each sample are discussed in subsequent sections. Samples of both liquid and solid investigation derived wastes were also collected and analyzed for disposal characteristics. In addition, soil and groundwater samples and samples of other media (i.e. sediment, air, etc.) have been sampled and analyzed during earlier investigation phases completed since 1990.

To establish the documentation necessary to trace sample possession from the time of collection, a chain-of-custody record was filled out and accompanied every sample. Copies of all chain-of-custody records are included in Appendix K. The chain-of-custody contains at a minimum the following information:

- sample number(s);
- signature of sampler(s);
- date and time of collection;
- sample location;
- analyses to be performed;
- preservative;
- signatures of persons involved in the chain of possession;
- inclusive dates of possession; and
- shipping destination, carrier, and shipping bill number.

All samples were transported to the laboratory for chemical analysis and were accompanied by the chain-of-custody record and by sample analysis request sheets. All samples were delivered to the person in the laboratory authorized to receive samples (often referred to as the sample custodian).

The sample containers were placed on sufficient ice inside plastic ice chests with the intent to maintain temperature of the samples equal to or less than 4°C upon receipt by the laboratory. The remaining volume inside the ice chest was filled with packing material of sufficient quantity to absorb all sample material that might leak. The ice chests were taped closed using a chain-of-custody seal. The temperature of the samples was checked by the laboratory upon arrival.

5.1 Analytical Program Summary

The CSI analytical program was developed with several objectives in mind. The primary objective was to provide sufficient analytical data to delineate environmental impacts and to facilitate comparison with Tier 1 ROs. Tier 1 ROs are presented in Tables 5-1 through 5-4. Since the site was known to be significantly impacted by MGP residuals, a secondary objective to the comparison to Tier 1 ROs was to provide sufficient data to allow subsequent development of remedial objectives possibly proceeding through completion of Tier 3 evaluations. A second objective was to analyze a sufficient number of samples for IAC Section 740 Appendix A (Table A (VOC) and Table B (SVOC)) constituents to allow a Comprehensive evaluation of environmental impacts.

Table 4-2 presents a summary of the CSI soil analytical program. The following is a summary of analyses completed for soil samples during the CSI:

- BTEX (SW 846, Method 8260) – 100 analyses
- PAHs (SW 846, Method 8270) – 99 analyses
- VOCs (SW 846, Method 8260) – 29 analyses
- SVOCs (SW 846, Method 8270) – 29 analyses
- TPH (SW 846, Method 8015) – 33 analyses
- Cyanide (SW 846, Method 9012) – 29 analyses
- RCRA Metals (SW 846, 6000 & 7000 Series) – 51 analyses

Due to the significant quantity of data collected from the site since 1990, and based on the subsequent objective of evaluation in accordance with TACO guidance, the CSI soil sample analytical data are divided into three general groups. These groups include surface soils (0 to 3 ft. bgs), shallow subsurface (3 to 10 ft. bgs), and deep subsurface (greater than 10 ft. bgs). The following subsections present a discussion of analytical results based on these depth intervals.

5.2 Surface Soil Results

Surface soil samples are defined as soils collected from the ground surface to a depth of three feet bgs. Twenty-eight samples, not including three duplicates, were collected from twenty-six (26) probeholes and two test pits. Twenty samples were analyzed for BTEX, PAHs, RCRA metals and cyanide. Five (5) samples were analyzed for VOCs, SVOCs, RCRA metals and cyanide. Samples from two test pits were analyzed for BTEX, PAHs and TPH. In addition, two probehole samples were analyzed for TPH.

5.2.1 BTEX And PAH Results

Table 5-5 presents a summary of BTEX and PAH results for all surface soil samples collected during CSI activities, including samples analyzed for VOC and SVOC constituents. Laboratory analytical data sheets for all soil samples are presented in Appendix L.

Some BTEX parameters were reported above detection limits in all 28 surface soil samples, including six samples analyzed for VOCs. Benzene was reported in all samples and ranged from 0.7 ug/kg (B-559-3) to 14,500 ug/kg (TP-503). Ethylbenzene was reported above detection limits for twenty-five samples and ranged from 1.1 ug/kg (B-507-1) to 45,600 ug/kg (TP-503). Toluene was reported in twenty-six samples ranging from 3.0 ug/kg (B-515-2) to 6,280 ug/kg (B-503-3). Total xylene was reported in twenty-seven samples ranging from 1.8 ug/kg (B-513-2) to 91,700 ug/kg (TP-504).

PAHs were reported above detection limits for all twenty-eight surface soil samples (Table 5-5), including six samples analyzed for SVOCs. All sixteen PAHs were reported above detection limits for sixteen of the twenty-eight surface soil samples and four samples had fifteen PAHs reported above detection limits. Many of the samples for which PAHs were below detection limits were the result of laboratory dilution. It is noted that for many of the PAH constituents that are reported below detection limits that the detection limits are significantly above the IEPA established background levels. In general PAH levels were reported from the 100 ug/kg range up to 100,000 ug/kg.

5.2.2 VOC And SVOC Results

Full VOC and SVOC analyses were completed for six surface soil samples. In addition, duplicates were analyzed for two of these samples. These results are presented in Table 5-6 (VOCs) and Table 5-7 (SVOCs). BTEX and PAH constituents are discussed in Section 5.2.1 and are not included in these tables. Laboratory analytical data sheets are presented in Appendix L.

Five VOC constituents were reported above detection limits for five of the six surface soil samples analyzed. These five constituents include Acetone (4 samples), Carbon disulfide (2 samples), Methyl ethyl ketone (2 samples), Methylene chloride (2 samples), and Styrene (1 sample). Except for PAHs, SVOC constituents were not reported above detection limits for any of the six samples analyzed.

5.2.3 Metals and Cyanide Results

Table 5-8 presents results for metals and cyanide analyses for surface soil samples. All twenty-six surface soil samples were analyzed for both RCRA metals and cyanide. Laboratory analytical data sheets are presented in Appendix L.

Seven constituents were reported above detection limits for all the surface soil samples analyzed. These seven constituents include arsenic (25 samples), barium (26 samples), cadmium (25 samples), chromium (26 samples), cyanide (26 samples), lead (26 samples), and mercury (26 samples).

5.3 Shallow Subsurface Soil Results

Shallow subsurface soil samples are defined as soils collected from three feet bgs to a depth of ten feet bgs. Thirty samples, not including four duplicates, were collected from twenty-six probeholes and four test pits. Twenty-four samples were analyzed for BTEX and PAH constituents. Six samples were analyzed for all VOC and SVOC constituents. Four test pit samples were analyzed for TPH parameters in addition to BTEX and PAH constituents. Six samples were analyzed for RCRA metals. In addition to four test pit samples, five probehole samples were also analyzed for TPH parameters.

5.3.1 BTEX And PAH Results

Table 5-9 presents a summary of BTEX and PAH results for all shallow subsurface soil samples collected during CSI activities. Laboratory analytical data sheets for all shallow subsurface soil samples are presented in Appendix L.

Some BTEX parameters were reported above detection limits in twenty-nine of the thirty shallow subsurface soil samples, including those samples analyzed for VOCs. Benzene was reported above detection limits in twenty-seven samples and ranged from 4.3 ug/kg (B-510-5) to 20,800 ug/kg (B-504-7). Ethylbenzene was reported above detection limits for twenty-seven samples and ranged from 1.9 ug/kg (B-560-5) to 145,000 ug/kg (B-504-7). Toluene was reported in twenty-four samples ranging from 1.4 ug/kg (B-509-8) to 10,900 ug/kg (B-504-7). Total xylene was reported in twenty-nine samples ranging from 1.3 ug/kg (B-510-5) to 140,000 ug/kg (B-504-7).

PAHs were reported above detection limits for twenty-nine of thirty shallow subsurface soil samples (Table 5-9), including those samples analyzed for SVOCs. All sixteen (16) PAHs were reported above

detection limits for eighteen of the thirty samples and six samples had fifteen PAHs reported above detection limits. In general PAH levels for individual constituents were reported from the 100+ ug/kg range to greater than 100,000+ ug/kg.

5.3.2 VOC And SVOC Results

Full VOC and SVOC analyses were completed for five shallow subsurface soil samples. In addition, duplicates were analyzed for three of these samples. These results are presented in Table 5-10 (VOCs) and Table 5-11 (SVOCs). BTEX and PAH constituents for shallow subsurface samples are discussed in Section 5.3.1 and are not included in these tables. Laboratory analytical data sheets are presented in Appendix L.

Three VOC constituents were reported above detection limits (Table 5-10). Acetone was reported in three of the five samples and methyl ethyl ketone and methylene chloride were reported in one sample each. Detection limits are relatively high for some of the samples, indicating several dilutions of the samples were required by the laboratory.

Three SVOC constituents were reported above detection limits (Table 5-11). Dibenzofuran was reported in four samples, 2-methylnaphthalene was reported in three samples, and bis(2-ethylhexyl)phthalate was reported in one sample. As noted above, detection limits for some samples indicate laboratory dilutions were required.

5.3.3 Metals Results

Table 5-12 presents results of analyses for metals for shallow subsurface soil samples. Five (5) shallow subsurface soil samples were analyzed for RCRA metals. Laboratory analytical data sheets are presented in Appendix L.

Six constituents were reported above the detection limits for all the shallow subsurface soil samples. These six constituents include arsenic (four samples), barium (five samples), cadmium (four samples), chromium (five samples), lead (five samples), and mercury (five samples).

5.4 Deep Subsurface Soil Results

Deep subsurface soil samples are defined as soils collected from a depth of greater than ten feet bgs. Fifty-nine deep subsurface soil samples, not including four duplicates, were collected from twenty-six probeholes. Forty-nine samples were analyzed for BTEX and PAH constituents. Ten samples, plus two duplicates were analyzed for VOC and SVOC constituents. Eleven samples, plus two duplicates were analyzed for RCRA metals. Eighteen probehole samples were analyzed for TPH parameters.

5.4.1 BTEX And PAH Results

Table 5-13 presents a summary of BTEX and PAH results for all deep subsurface soil samples collected during CSI activities. Table 5-13 includes BTEX and PAH constituents for those CSI soil samples analyzed for VOC and SVOC constituents in addition to samples analyzed only for BTEX and PAHs. Laboratory analytical data sheets for all soil samples are presented in Appendix L.

Some BTEX parameters were reported above detection limits in all fifty-nine of the deep subsurface soil samples, including those samples analyzed for full VOCs. Benzene was reported above detection limits for all fifty-nine samples and ranged from 0.7 ug/kg (B-509-28 and B-516-24) to 659,000 ug/kg (B-507-19). Ethylbenzene was reported above detection limits for forty-five samples and ranged from 0.8 ug/kg (B-559-19) to 797,000 ug/kg (B-514-17). Toluene was reported in fifty-eight samples ranging from 1.0 ug/kg (B-513-24) to 1,540,000 ug/kg (B-507-19). Total xylene was reported in fifty-seven samples ranging from 1.0 ug/kg (B-510-12 and B-513-24) to 1,300,000 ug/kg (B-507-19).

PAHs were reported above detection limits for forty-seven of the fifty-eight deep subsurface soil samples (Table 5-13), including those samples analyzed for SVOCs. All sixteen PAHs were reported above detection limits for fifteen of the fifty-eight samples and an additional seven samples had fifteen PAHs reported above detection limits. Some of the samples for which PAHs were not reported above detection limits were the result laboratory dilution.

5.4.2 VOC and SVOC Results

Full VOC and SVOC analyses were completed for ten deep subsurface soil samples. In addition, duplicates were analyzed for two of these samples. These results are presented in Table 5-14 (VOCs) and Table 5-15 (SVOCs). BTEX and PAH constituents for deep

subsurface samples are discussed in Section 5.4.1 and are not included in these tables. Laboratory analytical data sheets are presented in Appendix L.

Three VOC constituents were reported above detection limits (Table 5-14). Acetone was reported in eight of the ten samples. Methylene chloride were reported in five samples and styrene was reported in one sample. Detection limits are high for three of the samples, indicating several laboratory dilutions were required.

Three SVOC constituents were reported above detection limits (Table 5-15). Dibenzofuran, 2-methylnaphthalene, and bis(2-ethylhexyl)phthalate were reported in three samples. As noted above, detection limits for some samples indicate laboratory dilutions were required.

5.4.3 Metals Results

Table 5-16 presents results of analyses for metals for deep subsurface soil samples. Eleven (11) deep subsurface soil samples were analyzed for RCRA metals. Laboratory analytical datasheets are presented in Appendix L.

Six constituents were reported above detection limits. These constituents include arsenic (nine samples), barium (11 samples), cadmium (four samples), chromium (11 samples), lead (11 samples), and mercury (ten samples).

5.5 Total Petroleum Hydrocarbons

Thirty-two soil samples collected from twenty-six probeholes and six test pits were analyzed for TPH. Four analyses were completed for surface soil samples and ten were completed for shallow subsoil samples. Eighteen deep subsurface soil samples were analyzed. Table 5-17 presents the TPH results and laboratory analytical data sheets are included in Appendix L.

5.5.1 Surface Soil Results

Surface soil samples are defined as soils collected from the ground surface to a depth of three feet bgs. The TPH parameters diesel fuel and motor oil were identified above detection limits in all four of the surface soil samples. Diesel range parameters ranged from 50.9 mg/kg (B-510-2) to 21,300 mg/kg (TP-503-3) and motor oil parameters ranged from 97.9 mg/kg (B-510-2) to 13,200 mg/kg (B-504-3). Kerosene and mineral spirit parameters were below detection limits for

all four surface soil samples. The total TPH values for surface soil samples ranged from 148.8, g/kg (B-510-2) to 24,730 mg/kg (TP-503-3).

5.5.2 Shallow Subsurface Soil Results

Shallow subsurface soils are defined as soils collected from three feet bgs to a depth of ten feet bgs. The TPH parameters diesel fuel and motor oil were identified above detection limits in all ten of the shallow subsurface soil samples. Diesel range parameters were identified above detection limits in all ten samples and ranged from 699 mg/kg (B-551-10) to 25,600 mg/kg (B-505-6). Motor oil parameters were identified above detection limits in seven samples and ranged from 75.0 mg/kg (B-512-8) to 5,510 mg/kg (B-505-6). Kerosene and mineral spirit parameters were below detection limits for all ten shallow subsurface soil samples. The total TPH values for shallow subsurface soil samples ranged from 838 mg/kg (B-551-10) to 31,110 mg/kg (B-505-6).

5.5.3 Deep Subsurface Soil Results

Deep subsurface soil samples are defined as soils collected from a depth of greater than ten feet bgs. The TPH parameters diesel fuel, kerosene, and motor oil were identified above detection limits in seventeen of the eighteen deep subsurface soil samples. Diesel range parameters were identified in sixteen samples and ranged from 222mg/kg (B-503-11) to 45,900 mg/kg (B-514-17). Kerosene range parameters were identified above detection limits for one sample (8.58 mg/kg at B-509-18). Mineral spirit range parameters were not identified above detection limits for any samples. Motor oil parameters were identified above detection limits in eight samples and ranged from 87 mg/kg (B-503-11) to 14,800 mg/kg (B-514-17). The total TPH values for the deep subsurface soil samples ranged from 8.58 mg/kg (B-509-18) to 60,700 mg/kg (B-514-17).

5.6 Groundwater Results

Fourteen groundwater monitoring wells were sampled on July 26, 2004. Samples were analyzed for BTEX constituents in accordance with SW-846 Method 8260B and for PAH constituents in accordance with SW-846 Method 8310. Analytical results are presented in Table 2-8, 2-9, and 2-10. Laboratory analytical data sheets are presented in Appendix M.

BTEX constituents were identified above detection limits in five samples. Benzene was detected in five samples, ranging from 5.7 ug/L (UMW-113) to

760 ug/L (UMW-107). Toluene was identified above detection limits in only two samples; 2.3 ug/L (UMW-110) and 120 ug/L (UMW-114). Ethylbenzene was identified above detection limits in four samples ranging from 1.0 ug/L (UMW-113) to 868 ug/L (UMW-114). Total Xylenes were identified above detection limits in four samples and range from 4.8 ug/L (UMW-113) to 425 ug/L (UMW-114).

PAH constituents were identified above detection limits in five samples. Only two samples had more than three constituents identified above detection limits. Acenaphthene was identified in four samples and ranged from 13.5 ug/L (UMW-115) to 214 ug/L (UMW-114). Acenaphthylene was also identified in four samples and ranged from 26.4 ug/L (UMW-115) to 552 ug/L (UMW-114). Anthracene was identified above detection limits in two samples; 1.04 ug/L (UMW-114) and 15.1 ug/L (UMW-110).

Benzo(a)anthracene was identified in only one sample; 0.33 ug/L (UMW-110). Fluoranthene was identified in two samples; 0.99 ug/L (UMW-114) and 12.2 ug/L (UMW-110). Fluorene was identified above detection limits in four samples, ranging from 2.36 ug/L (UMW-113) to 20.6 ug/L (UMW-114). Naphthalene was identified above detection limits in three samples; ranging from 24.7 ug/L (UMW-110) to 3,650 ug/L (UMW-114). Phenanthrene was identified above detection limits in two samples; 7.48 ug/L (UMW-114) and 26.7 ug/L (UMW-110). Pyrene was also identified above detection limits in two samples; 0.64 ug/L (UMW-114) and 5.25 ug/L (UMW-110).

Quarterly groundwater monitoring has also continued on eight of the fourteen groundwater monitoring wells since the July 2004 sampling event. Quarterly groundwater samples were analyzed for BTEX constituents and naphthalene in accordance with SW-846 Method 8260B and for PAH constituents in selected samples in accordance with SW-846 Method 8310. Analytical results for the quarterly results from 1990 through 2007 are also presented in Table 2-8 and 2-9, and laboratory analytical data sheets are presented in Appendix M.

BTEX constituents were identified during the 2004, 2005, and 2006 quarterly groundwater monitoring events above detection limits in five monitoring wells. Benzene and ethylbenzene were detected in two monitoring wells (UMW-107 and UMW-114) during 2004 through 2007. Xylene was detected in two of the monitoring wells (UMW-107 and UMW-114) in 2005. Xylene was detected in three of the monitoring wells (UMW-107, UMW-114, and UMW-115) in 2006.

The highest benzene concentration identified was at UMW-107 during the September 2006 sampling event with a concentration of 1280 ug/L. Benzene was also identified at UMW-114 during the September 2007 sampling event at a concentration of 1150 ug/L. The highest ethylbenzene concentration was identified during the September 2005 sampling event at UMW-114 at a concentration of 1370 ug/L.

The general trend of BTEX constituents in UMW-107 and UMW-114 shows concentrations have remained the same with a slight increase in concentrations in the past year.

5.7 QA/QC Analytical Summary

Duplicate samples were collected for both soil and groundwater samples. Complete laboratory results for all duplicate soil samples are included in Appendix L. It is noted that due to the lack of homogeneity of soil materials, duplication of analytical results is virtually impossible. Laboratory QA/QC reports for all soil analyses are presented in Appendix N.

Table 5-18 presents results for duplicate soil samples analyzed for BTEX and PAH constituents. Duplicate samples were analyzed for five soil samples representing all depth ranges. In general, correlation between the primary sample results and duplicate sample results is good. The BTEX and PAH constituents identified in most samples and the levels identified in the duplicate are consistent with levels identified in the primary sample.

Table 5-19 presents results for duplicate soil samples analyzed for VOCs. Duplicate samples were collected and analyzed for seven soil samples representing all depth ranges. Analytical results for duplicate samples are generally consistent with results for the corresponding primary samples. Six VOCs were identified in duplicate samples, including acetone, carbon disulfide, methyl ethyl ketone, methylene chloride, styrene, and trichloroethene. All of these constituents, with the exception of trichloroethene, were identified above detection limits for other primary samples analyzed for VOC constituents (Tables 5-6, 5-10, & 5-14). Trichloroethene was identified in only one sample (B-509-8D) at a level slightly above the detection limit.

Table 5-20 presents results for duplicate soil samples analyzed for SVOC constituents. Duplicate samples were collected and analyzed for seven soil samples representing all depth ranges. Analytical results for duplicate samples are consistent with results for the corresponding primary samples. Three SVOC constituents were identified above detection limits in duplicate samples, including 2-methylnaphthalene, bis(2-ethylhexyl)phthalate, and dibenzofuran. These same constituents were identified in other primary samples analyzed for SVOC constituents (Tables 5-11 and 5-15).

Table 5-21 presents results for duplicate soil samples analyzed for RCRA metals and cyanide. Duplicate samples were analyzed for eight soil samples representing all depth ranges. Analytical results for the duplicate samples are generally consistent with primary sample results.

6 ENDANGERMENT ASSESSMENT

This section presents the results of the CSI activities in addition to applicable data from all previous investigation activities as required in IAC Section 740.425(b)(5). Results are presented within the context of the site conceptual model to provide an understanding of the extent of impacts identified at the site. Potential exposure routes are discussed, taking into consideration site conditions and features affecting chemical constituent movement within the environment (i.e. chemical transport). Table 6-1 presents the MGP constituents of concern (COC) that have been identified for the site. Analytical results are compared to the Tier 1 ROs for all potential exposure pathways.

6.1 Recognized Environmental Conditions

Historical information relative to the site indicates that gas was manufactured on the site as early as 1869 and continued through 1933 (i.e. at least 64 years). Initially production was limited to the northwest portion of the site; however, by 1915 the operation had expanded to the southern portion of the site. Gas was produced by coal carbonization, oil gasification, and carbureted water gas methods during various periods of operation. Throughout the operating period modifications and expansion resulted in various forms of MGP activity occurring over the entire site area. These historical activities resulted in construction of a significant number of below grade structures in addition to underground piping; however, the majority of the below grade structures were located on the northern portion of the site. After operations ceased in 1932 or 1933, the plant was maintained for stand-by production purposes until about 1955. Plant facilities were demolished, with the exception of the booster house, between 1955 and 1960. Although the property remained vacant, AmerenIP maintained ownership of the property until 1979 when it was sold to the American Legion. AmerenIP repurchased the property from the American Legion in 1991 after preliminary environmental investigations indicated the presence of MGP related impacts at the site.

Environmental site investigations in the early 1990s resulted in identification of some of the below grade structures and the presence of "source material" within those structures. These structures were generally located in the northwest corner of the site. In addition soil and groundwater impacts were identified both on-site and off-site and subsequently DNAPL was identified in off-site wells north and east of the site. Groundwater impacts have been monitored on a quarterly basis since 1997 and impacts have not changed significantly during that eight year period.

The IRM activities were completed during 1997 and 1998 with the primary objective of removing "source material" from identified below grade structures. The MGP residuals were removed from seven below grade

structures located on the northeast portion of the site and disposed of off-site. These structures included gas holder tank GH-1, tar wells, and tar separator and valve pit. Some MGP impacted soil outside of structures was also removed and disposed of. In addition, shallow soils impacted by purifier residuals were removed from the southern portion of the site and the abandoned sewer along the Hill Street right-of-way was also plugged. In addition approximately one foot of topsoil was placed over the site to mitigate exposures at the site.

Based on observations during IRM activities and the presence of DNAPL at two locations not on the AmerenIP property, additional recognized environmental conditions were identified and the CSI activities were completed to define those conditions. Figure 6-1 illustrates approximate locations of historical MGP structures on the site and CSI results indicate that the following environmental conditions exist at the site relative to some of these structures.

6.1.1 Former Tar Wells

Three tar wells (TW1, TW2, and TW3) have been identified at the site. TW1 and TW2 had diameters of approximately 10.7 feet. The tops of both tar wells were located approximately 2 feet bgs and their bottoms were 10 feet bgs. The walls and floors were constructed of brick and mortar. TW1 was covered with a brick and concrete lid approximately 8-inches thick that was supported by rails. Above the lid was a concrete foundation 12-inches thick with metal rebar.

Tar well TW3 had a diameter of 19.3 feet wide and depth of 10 feet bgs. The walls were constructed of brick and mortar and the bottom was constructed of 6-inches of concrete. The environmental impacts from these tar wells would have been from releases through the sides and bottom. The material from these tar wells has been removed therefore these structures no longer serve as a source for continued releases.

6.1.2 Former Tar Separator

One tar separator was identified at the site. The dimensions of the separator were approximately 10 feet in diameter with separate chamber that ranged in depth of 6 to 10.5 feet bgs. The walls and base were concrete with interior wooden baffles. The upper two feet contained clean fill material with the remainder of the backfill saturated with fluid tar. The valve box was located east of the separator and was approximately 9 feet wide on each side with brick walls extending to 5 feet bgs. The separator did not have a floor other than native clay till. The valve box contained two 10-inch diameter

iron pipes with 5-foot invert depths that ran east-west at the north and south ends. The valve box was covered with a concrete lid and contained clay and brick fill. The walls and floor of the separator and the wall of the valve box were left intact. Environmental impacts related to this structure could have been from releases of source material through the base of the separator, the valve box, or from piping. The contents of the separator were removed in 1997 therefore this structure no longer serves as a source for further releases.

6.1.3 Former Purifiers

Three concrete purifier pads were identified at the site. The purifier pads range in diameters from 20 to 30 feet. The purifier waste consisted mainly of wood shavings, coal, and cinders. The contents and pad structures have been removed. Releases from purifiers would primarily have been cyanide and other inorganic constituents. This would typically have occurred when the purifying material was removed from the purifiers and spread on the ground to regenerate.

6.1.4 Former Gas Holder Tank GH-1

Gas holder tank GH-1 was constructed prior to 1869 and was converted to a tar well in 1924. This below ground structure contained a significant quantity of source material and was the primary focus of the IRM removal actions in 1997. The IRM activities did not address the inlet/outlet valve pit(s) located on the west side of the holder tank. A valve structure was not located during the CSI test pit activities; however, MGP related impacts were observed. The prior release of MGP related material could have occurred through the base or sidewalls of the structure. Additionally, releases could have occurred from piping going into the structure. The contents of this structure were removed in 1997, thus mitigating further releases to the subsurface.

6.1.5 Former Gas Holder Tank GH-2

Gas holder tank GH-2 was constructed prior to 1902 and was the focus of CSI test pit and boring activity. Based on the site history and the period of operation, this gas holder tank may have been used as a relief holder during part of the operation. Evidence from the 2004 CSI appears to indicate that this former gas holder was a belowground structure. A circular brick wall believed to be the outside of this gas holder tank was observed during IRM activities. CSI activities confirmed the presence of structures, including walls, valve pit, and

piping; however, a solid bottom was not encountered. It is possible that the GH-2 gas holder tank was constructed without a brick or concrete bottom due to the relatively impermeable un-weathered till below the structure and the relatively shallow static water table. CSI soil sample analytical results indicate significant levels of MGP impacts within the GH-2 gas holder tank. Environmental impacts related to this structure could be from the bottom, from valve pits, or from piping.

6.1.6 Former Gas Holder Tank GH-3

Gas holder tank GH-3 was constructed between 1909 and 1915 and historical photographs indicate that the water tank was above grade and constructed on a concrete slab. CSI activities focused on identifying the depth to the slab and locating the piping valve pits. The foundation slab and both inlet and outlet valve pits were located. The bottom of the valve pits is about 8.5 feet bgs and both pits contained some tar-like liquid. Environmental impacts related to this structure could be from the valve pits, from piping, or from surface releases.

6.1.7 Former Oil And Diesel Storage Tanks

Seven above ground oil and diesel storage tanks were located along the southwest property line from the early 1920s until plant demolition in the 1950s. In addition, other oil storage tanks on the northern portion of the property were used at various times during the operation of the MGP. Environmental impacts from these structures could be related to piping and accidental spillage and would most likely have been either surface or shallow subsurface releases. The decommissioning and removal of these structures in the late 1950s has served to eliminate any continued releases from the former aboveground tanks. The CSI analytical results confirmed the presence of some minor impacts near the southwest property fence-line.

6.1.8 North Property Line

The north AmerenIP property line from the northeast corner to the east central area of the site is identified as a recognized environmental condition due to the DNAPL identified in monitoring well UMW-101 north of the railroad right-of-way. The DNAPL location is within the boundary of what is currently defined as the remediation site. No MGP activities occurred north of the railroad tracks; however, impact appears to have migrated to that area. CSI test pit and boring activities

focused on locating an environmental pathway from the site MGP operations to UMW-101. While impacts were identified in both test pits and borings, a preferential pathway was not identified.

6.1.9 East Property Line and Former Gas Experiment Station

The east property line along the vacated Hill Street right-of-way is identified as a recognized environmental condition due to the DNAPL identified in monitoring well UMW-103 located in the vacated Sixth Street right-of-way on the current eastern boundary of the AmerenIP property. Historical MGP activities did not occur in this area; however, the "Gas Experiment Station of the University of Illinois" was located near the northeast corner of the AmerenIP property and MGP impact appears to have migrated into the vacated Sixth Street right-of-way. In addition, a sixteen inch diameter gas main is known to exist within the vacated Sixth Street right-of-way. Observations made during early site investigation activities and during IRM activities concluded that the Hill Street sewer was not the migration pathway. CSI activities did not identify a preferential pathway from the AmerenIP property to the right-of way portion of the site.

6.1.10 Vacated Hill Street Right-Of-Way

Although no actual MGP operating activities occurred in the Hill Street right-of-way, gas mains were located within the right-of-way and piping between various operations was buried under the street. Due to significant impacts identified during CSI activities in borings and test pits located within the right-of-way, Hill Street is identified as a recognized environmental condition that will need to be addressed. Impacts observed within the right-of-way could be from piping, incidental spillage, or migration from other MGP structures and operations.

6.2 Nature and Extent Of Impact

This section provides a discussion of the nature and extent of environmental impacts to the site media. IAC Section 740(b)(5)(C) requires definition of the degree and extent of impact as well as evaluation of potential fate and transport. Soil analytical results have been compared to Tier 1 ROs for all pathways and property uses. Groundwater analytical results have been compared to Class I groundwater ROs.

Impacts exceeding the Tier 1 ROs exist at the site for both soil and groundwater. The following subsections describe the degree and extent of the impacts with respect to depth. The first subsection discusses surface soil (i.e.

ground surface to a depth of three feet). The second subsection discusses shallow subsurface soil (i.e. soil from three ft. to ten ft. depth), and the third subsection discusses deep subsurface soil (i.e. soil greater that ten ft. depth). The fourth subsection presents an evaluation of potential source material and the fifth subsection addresses groundwater.

6.2.1 Surface Soil Impact Assessment

Analytical results for BTEX and PAH constituents for surface soil samples are presented in Table 5-5. In addition to samples collected during the CSI field activities, this table also includes surface soil samples collected in 1990. Constituents that exceed the Tier 1 ROs for inhalation, ingestion, and/or the soil to groundwater pathway for all property scenarios are identified. Results for thirty-three samples are presented in Table 5-5 and there is an exceedance for at least one BTEX or PAH constituent in thirty-one of the samples. Twenty-one samples have one or more exceedances for at least two pathways. One sample with no exceedances has high detection limits for PAH constituents and the other sample was collected in 1990 to provide off-site background data. Three figures were developed to illustrate the aerial extent of these Tier 1 RO impacts with respect to BTEX and PAH constituents.

Soil Ingestion

Figure 6-2 shows the location of surface soil samples that exceed the RO for the soil ingestion pathway and identifies the specific constituents and analytical result for each. The general extent of impact is the entire remediation site, including areas along the railroad and Sixth Street rights-of-way. All exceedances are for PAH constituents with the exception of benzene at sample locations B-503 and TP-503; both are located near the AmerenIP north property line. The ROs are exceeded for four or more PAH constituents at twenty-one locations covering all areas of the site. Higher levels of impact, including five or six PAH constituents per location exceeding a Tier 1 RO, occur on the northern portion of the site, along the north fence line and the railroad right-of-way.

Soil Inhalation

Figure 6-3 shows the location of surface soil samples that exceed the RO for the soil inhalation pathway and presents the analytical result. The inhalation RO is exceeded at eleven sample locations. The RO is exceeded at two locations for benzene, naphthalene, and xylene. TP-504, which is located adjacent to GH-1, exceeds Tier 1 ROs for benzene, ethylbenzene, naphthalene, and xylene. The RO is exceeded

at two locations for benzene and naphthalene only. One exceedance is near the AmerenIP north property line, the second is at B-506 near the center of the site. In addition, six locations exceeded the RO for naphthalene only.

Soil Component to Groundwater Ingestion

Figure 6-4 shows the location of surface soil samples that exceed the RO for the soil to groundwater pathway. Specific constituents and analytical results are also shown. The RO are exceeded at twenty-two of thirty-three locations. Benzene and ethylbenzene are the only BTEX parameters that exceed the ROs. Benzene exceeds the RO at twelve locations and ethylbenzene exceeds the RO at two locations (TP-503 and TP-504). Several PAH constituents exceed the RO at twelve different locations. The more highly impacted samples tend to be confined to the northern portion of the site; however, there are also exceedances for samples located near the southern property line and along Hill Street through the middle of the site.

Inorganics

Table 5-8 presents analytical results for metals and cyanide for surface soil samples. In addition to samples collected during CSI activities this table includes samples collected and analyzed in 1990 and 1991 during the Phase II SI activities. Sample dates are included in the table. Tier 1 ROs for the soil to groundwater pathway for some metals were exceeded for twenty-two of the thirty-seven samples analyzed. Most of these samples exceeded the ROs for arsenic, cyanide, chromium, and lead. Twelve samples exceeded the RO for the ingestion pathway for arsenic. Three of these samples also exceeded the RO for the soil to groundwater pathway. The Tier 1 RO for cyanide was exceeded for the soil to groundwater pathway in five samples. Two of these samples also exceeded the RO for the ingestion pathway. Four samples exceeded the RO for the ingestion pathway for lead. In addition, two samples exceeded the RO for chromium for the soil to groundwater pathway.

6.2.2 Shallow Subsurface Soil Assessment

Analytical results for BTEX and PAH constituents for shallow subsurface soil samples are presented in Table 5-9. In addition to samples collected during the CSI field activities, this table also includes shallow subsurface soil samples collected during the 1990 and 1991 Phase II SI activities. Constituents that exceed the Tier 1 ROs for inhalation, ingestion, and/or the soil to groundwater pathway for all property uses are identified. Results for forty-six samples are

presented in Table 5-9 and there is an exceedance for at least one pathway for at least one BTEX or PAH constituent in forty of the samples. Three samples analyzed in 1990 have no exceedance; however, the detection limits exceed some of the RO and indicate laboratory dilutions. Three figures were developed to illustrate the extent of these Tier 1 RO impacts on shallow subsurface soil.

Soil Ingestion

Figure 6-5 shows the location of shallow subsurface soil samples that exceed the RO for the soil ingestion pathway and identifies the specific constituents and analytical result for each. Benzene is the only BTEX parameter that exceeds the RO and is present at six locations above the RO. All benzene RO exceedances are located in the north central part of the AmerenIP property in the general location of gas holder tanks GH-1 and GH-2. The only sample locations with no RO exceedances for BTEX or PAH constituents are either off-site or near the southeast corner of the AmerenIP property (UTB-22 and B-512). Samples with higher analytical results and multiple exceedances tend to be located through the central area of the AmerenIP property (i.e. along Hill Street) and north into the railroad right-of-way portion of the site.

Soil Inhalation

Figure 6-6 shows the location of shallow subsurface soil samples that exceed the RO for the soil inhalation pathway and identifies specific constituents and analytical result. The RO is exceeded at twenty-one locations for xylene across the site. The RO is exceeded at twenty locations for benzene and thirty-two locations for naphthalene. The highest exceedances are located at UTB-23, TP-507, B-504, and B-505 near the former gas holder tanks GH-1 and GH-2. RO exceedances generally occur at locations on the northern portion of the site; however, there are exceedances for naphthalene across the site.

Soil Component to Groundwater Ingestion

Figure 6-7 shows the location of shallow subsurface soil samples that exceed the RO for the soil to groundwater pathway. Specific constituents and analytical results are also shown. The RO is exceeded at thirty-six of forty-six locations. The RO for BTEX parameters are exceeded at thirty-one locations, with the benzene RO exceeded at thirty locations. Four or more PAH ROs are exceeded at nineteen locations. RO exceedances generally occur throughout the AmerenIP property as well as the north and east rights-of-way portions of the remediation site.

Inorganics

Table 5-12 presents analytical results for metals and cyanide for shallow subsurface soil samples. In addition to samples collected during CSI activities this table includes samples collected and analyzed during the Phase II SI activities in 1990 and 1991. Sample dates are included on the table. Tier 1 ROs for the ingestion pathway for arsenic were exceeded for two CSI samples. No other metals were detected in these samples above Tier 1 ROs.

Metals Tier 1 ROs were exceeded at one location where ROs for BTEX and PAH constituents were not exceeded. The ingestion pathway RO for arsenic was exceeded at sample location B-559. The BTEX and PAH detection limits indicate some laboratory dilution; however, detection limits are not greater than the ingestion pathway RO.

6.2.3 Deep Subsurface Soil Assessment

Analytical results for BTEX and PAH constituents for deep subsurface soil samples (greater than ten feet) are presented in Table 5-13. In addition to samples collected during the CSI field activities, this table also includes deep subsurface soil samples collected during the Phase II SI activities in 1990 and 1991. Constituents that exceed the Tier 1 RO for inhalation, ingestion, and/or the soil to groundwater pathway for all property use scenarios are identified. Results for seventy-seven samples are presented in Table 5-13 and there is an exceedance for at least one pathway for at least one BTEX or PAH constituent for thirty-four of the sample locations. Three figures were developed to illustrate the extent of these Tier 1 RO impacts on deep subsurface soil at the site.

Soil Ingestion

Figure 6-8 shows the location of deep subsurface soil samples that exceed the RO for the soil ingestion pathway and identifies the specific constituents and analytical result for each exceedance. BTEX or PAH RO are exceeded at twenty-eight sample locations and three of those locations have ROs exceeded at multiple depths. Benzene is the only BTEX constituent that exceeds the RO. The PAH ROs are exceeded for more than three PAH constituents at twenty-one sample depths representing nineteen different locations.

Soil Inhalation

Figure 6-9 shows the location of deep subsurface soil samples that exceed the RO for the soil inhalation pathway and identifies specific constituents and analytical result. The RO is exceeded for three or more constituents at sixteen sample locations. The RO is exceeded at twenty-one locations for benzene and twenty-three locations for naphthalene. In addition the RO is exceeded for toluene, ethylbenzene, and xylenes at three locations (B-507, B-506, and B-514) and for ethylbenzene at one location (B-562). RO exceedances generally occur at locations on the northern portion of the AmerenIP property and railroad right-of-way portion of the remediation site; however, there are two exceedances for naphthalene on the vacated Sixth Street right-of-way (B-558 and B-560).

Soil Component to Groundwater Ingestion

Figure 6-10 shows the location of deep subsurface soil samples that exceed the RO for the soil to groundwater pathway. Specific constituents and analytical results are also shown. The RO is exceeded for thirty samples at twenty-five locations. The ROs for BTEX parameters are exceeded for thirty samples, with the benzene RO exceeded at all thirty locations. Other BTEX constituents exceed the RO for twelve sample locations. Four or more PAH ROs are exceeded for sixteen samples at fourteen locations. RO exceedances generally occur on the northern portion of the AmerenIP property and the railroad right-of-way portion of the site.

Inorganics

Table 5-16 presents analytical results for metals and cyanide for deep subsurface soil samples. In addition to samples collected during CSI activities this table includes samples collected and analyzed during the Phase II SI activities completed in 1990 and 1991. Sample dates are included on the table. Tier 1 ROs for metals were not exceeded for any CSI samples.

6.2.4 Potential Source Determination

IAC Section 740.420(b)(2) requires characterization of source and potential sources of recognized environmental conditions. This section presents an evaluation of CSI analytical data with respect to IAC Section 742.305 for contaminant source and free product determination.

IAC Section 742.215 requires determination of soil attenuation capacity by evaluation of natural organic carbon fraction data, TPH

data and/or total organic carbon concentration (OCC). During 1996 twelve soil samples were collected from four probeholes completed at the site. Probeholes were located near the four corners of the AmerenIP property. Three samples were collected from each location; one sample from the surface soil, one from the three foot to ten foot interval, and one from below ten feet. All samples were analyzed for total organic carbon using Method 415.1. Table 6-2 presents analytical results for total organic carbon (TOC).

Table 6-2 also presents information on soil type for the various depth intervals. All samples collected from the one foot interval were described as fill material containing coal, cinders, etc.; therefore the default value of 6,000 mg/kg was used to evaluate potential source materials from the surface soil interval (i.e. 0-3'). Sample groups for the three to ten foot and greater than ten foot interval each included one sample with TOC result considerably higher than the remaining samples. The conservative assumption to exclude these samples was made. The TOC average for the three to ten foot interval is 2,370 mg/kg, compared to the default value of 2,000 mg/kg. The TOC average for greater than ten foot interval is 4,293 mg/kg, compared to the default value of 2,000 mg/kg.

TPH results and total organic carbon concentration for CSI samples were compared to these TOC values. Table 6-3 presents a summary of those samples and includes location, depth, and TPH results. Based on the results presented in Table 6-3, potential source materials are present on the site at depths ranging from two feet to twenty-four feet bgs. These samples tend to represent the central and north central area of the AmerenIP property and the area of the railroad right-of-way where DNAPL was present in UMW-101. Three samples from one location (B-504) represent potential source material at depths of three feet, seven feet, and twenty-one feet. Samples from B-553 represent depths of five to six feet and twenty-four feet.

IAC Section 742.305(b) also requires evaluation of source and free product determination by comparison of analytical results to soil saturation limits. This comparison resulted in no additional sample locations being identified as potential source material.

6.2.5 Groundwater Assessment

July 2004 Data

Groundwater impact has been identified in three of the on-site monitoring wells and two of the off-site monitoring wells. Six constituents have been identified that exceed the Tier 1 ROs or the

Groundwater Quality Standards for Class I Groundwater. Analytical results for the most recent CSI groundwater sampling event are presented in Table 6-4. As noted previously, groundwater samples were analyzed only for BTEX and PAH constituents. These results were compared to the Class I groundwater standards and exceedances are highlighted on Table 6-4. Historical groundwater samples were also analyzed for metals and are also presented in Table 6-4. A groundwater concentration map showing the constituents that exceeded a Tier 1 RO is presented in Figure 6-11.

Benzene was detected in five wells (UMW-107, UMW-110, UMW-113, UMW-114, and UMW-115) at concentrations that exceed the Class I RO: Three wells on the south portion of the AmerenIP property, one well in the vacated Sixth Street right-of-way at the northeast corner of the site, and one well in Hill Street west of the site.

Toluene was detected in UMW-114 at a concentration that exceeded the Class I RO.

Naphthalene was detected in two wells (UMW-113 and UMW-114 at concentrations that exceed the Class I RO.

Phenanthrene and pyrene was detected in UMW-113 at concentrations that exceed their respective Class I RO.

Acenaphthylene was also detected in UMW-114 at a concentration above the Class I RO.

September 2007 Data

Groundwater impact has been identified in two of the on-site monitoring wells and one of the off-site monitoring wells.

Four constituents have been identified that exceed the Tier 1 ROs or the Groundwater Quality Standards for Class I Groundwater. Analytical results for the most recent CSI groundwater sampling event are presented in Table 6-4. As noted previously, groundwater samples were analyzed only for BTEX and PAH constituents. These results were compared to the Class I groundwater standards and exceedances are highlighted on Table 6-4. A groundwater concentration map showing the constituents that exceeded a Tier 1 RO is presented in Figure 6-11.

Benzene was detected in two wells (UMW-107, UMW-114, and UMW-115) at concentrations that exceed the Class I RO.

Ethylbenzene was detected in well (UMW-114) at a concentration that exceeds the Class I RO.

Naphthalene was detected in UMW-107 AND UMW-114 at a concentration that exceeds the Class I RO. Benzo(a)anthracene was also in UMW-114 at a concentration that exceeds the Class I RO.

The general trend of benzene shows a slight increase in concentration from December 2004 through September 2007.

The ethylbenzene and naphthalene concentrations stay relatively consistent showing slight increases and decreases between sampling events.

7 CSI SUMMARY AND CONCLUSIONS

Numerous phases of investigation and remediation have been completed at the AmerenIP Champaign MGP site in Champaign, Illinois. This site was the location of manufactured gas production for more than sixty years. Sufficient data has been collected to show that impacted soils exceeding Tier 1 ROs are present on the remediation site that includes both the AmerenIP property and the adjacent railroad. This section provides a summary of degree and extent of impacts and provides several figures to illustrate the extent of MGP residuals present at the site. The figures also incorporate observations made during the various phases of investigation and some interpretation relative to observations.

The extent of impact is based primarily upon a comparison of BTEX and PAH results to Tier 1 ROs. While these constituents are present within MGP residual materials, their presence may also be derived from other non-MGP sources. No attempt has been made to differentiate or determine the possible sources for these constituents.

7.1 Horizontal Extent of Impacts

Figure 7-1 illustrates the results of the Tier 1 ROs comparison for BTEX and PAH constituents for shallow soils at the site. Groundwater Class I exceedances are shown on Figure 6-11. This figure illustrates the wide spread nature of surface soil impacts. Although at least a foot of clean fill has been placed over most of the site and several areas of shallow soil were removed during the IRM activities, the zero to three foot interval remains significantly impacted. Samples from three locations representing potential source material are located in areas proximate to where impacted soils were removed during the IRM. One sample from TP-504 was collected from the inlet/outlet structure of former gas holder GH-1. The other two samples were collected from areas directly between MGP structures known to contain impacted materials and the previous location of monitoring well UMW-101 where DNAPL was observed.

Figure 7-2 illustrates the results of the Tier 1 ROs comparison for BTEX and PAH constituents for the shallow subsurface soils at the site. Potential source material impacts are also shown. This figure shows that the extent of impacts to the three to ten foot interval are well bounded to the south and east of the site; however, the northerly extent is less well defined. Potential source materials within this depth interval are primarily associated with former gas holder GH-2. The potential source sample at location B-516 is most likely localized because the MGP structures previously located south of Hill Street would generally not be associated with tar-like materials. However, observations of materials in the former gas holder GH-3 valve pit structures indicated the presence of MGP residuals. Comparison of Figure 7-2 with

Figure 7-1 shows fewer impacts in the southern area of the site at this depth interval.

Figure 7-3 illustrates the results of the Tier 1 ROs comparison for BTEX and PAH constituents for the deep subsurface soil ten to twenty foot depth interval. This interval is relatively well bounded by non-impacted samples to the south, the east and the northwest. The location of potential source material samples appears to indicate possible lateral migration of impact upon reaching this depth interval. None of these samples are located near MGP structures that would be expected to contain source materials. Three of the samples, B-506, B-507, and B-514, are located within the vacated Hill Street and may potentially represent impacts along the gas main. These three samples may also represent the source of dissolved phase impacts moving laterally toward four of the five impacted monitoring wells; however, the shallow groundwater gradient is not well defined in south, southeast, and east directions. The potential source samples in the railroad right-of-way may represent the approximate pathway from the site structures to the DNAPL observed at UMW-101.

Figure 7-4 illustrates the results of the Tier 1 ROs comparison for BTEX and PAH constituents for the deep subsurface soils at depths greater than twenty feet at the site. Although several impacted samples are identified within this depth interval, the figure illustrates that impacts diminish in the unweathered till material at greater depths. The potential source material samples are relatively close together and are in the shallower portion of the depth interval. These samples are also located in the general pathway between former MGP structures and former monitoring well UMW-101. Well UMW-101 was screened from fourteen to twenty-six feet. Monitoring wells are generally screened into the upper portion to this depth interval.

7.2 Vertical Extent of Impacts

Figures 7-5 through 7-10 are sections through the site and illustrate the vertical and horizontal extent of impact above Tier 1 ROs for BTEX and PAH constituents. These figures show sample depths and CSI probehole and Phase II SI boring locations. Monitoring wells with screened intervals are illustrated. Field PID readings are presented for one-foot intervals for CSI probeholes. The general extent of BTEX and PAH impacts is shown based on comparisons with Tier 1 ROs, field observations, and interpretation of boring log information.

Figures 7-5 through 7-7 are west-east sections with Figure 7-5 representing the northern site area and Figure 7-7 presenting the southern most section. Figure 7-5 shows that the western edge of impact is bounded by two borings west of Fifth Street. It is likely that impacts extend under Fifth Street considering the close proximity of UTB-11 to the corner of the site. Field

observations and analytical results indicate that impacts are shallower to the west and increase toward the east to depths greater than twenty-five feet. Although the east is not bounded by soil sample analytical data for UTB-02, groundwater samples from this well are not impacted and no impact was noted during drilling of the boreholes. Potential source material is present at B-553 at both shallow and deep intervals. Higher levels of impacts were identified in samples collected from sandy soils. Attempts to correlate sand lenses in the clayey till unit were unsuccessful.

Figure 7-6 represents the central portion of the site along the north side of vacated Hill Street. As noted for the previous section, impacts appear to extend under Fifth Street and, based on impacted groundwater at UMW-107, impacts may extend into Hill Street west of Sixth Street. Based on site observations and analytical results, impacts along this section are deeper through the middle of the site; however, only one sample (B-507) was identified as potential source material. The eastern extent of impact along this section is not well defined, although analytical results for samples from B-558 indicate concentrations decrease in that direction.

Figure 7-7 represents a section along the southern edge of the AmerenIP property. Although no sample data is present, both the east and west end of this section show that impacts are bounded by monitoring wells with no Class I impacts. Although analytical samples were not collected during installation of these wells (UMW-104 and UMW-106), there were no observations of impacts recorded during drilling activities. Analytical results and observed impacts along this section are generally minor; however, groundwater impacts have been consistent at wells UMW-114 and UMW-115. The depth of impact is limited to about twelve feet bgs.

Figure 7-8 is a south-north cross-section and represents the approximate west edge of the AmerenIP property. Two of four soil samples at the southern end of the section (B-513) are impacted; however, impacts are minor and relatively shallow, indicating that impacts likely do not extend far off-site to the south. The extent of impacts is bounded at the north end of the section by boring UTB-09 and groundwater samples from UMW-109. Both analytical and observed impacts at the middle of the section are relatively shallow and appear to be associated with the former MGP structures located in that area of the site.

Figure 7-9 is a south-north cross section and shows impacts through the approximate center of the site. The extent of impacts is bounded on both the north and south; however, the data points to the north (UTB-01 and UTB-17) are separated by a significant distance. This section illustrates the significant impacts which exist in the north central area of the site, including the impacts under the railroad right-of-way. Six samples identified as potential source materials occur along this section. In addition, some of the deepest impacts identified (approximately twenty-eight feet bgs) are shown on this section.

Boring UTB-01 represents the location of previous well UMW-101, which was abandoned in 1997 due to the presence of DNAPL in the well. This well was screened from fourteen to twenty-six feet, indicating the presence of DNAPL within that interval. Since probehole B-561 was located within a few feet of UTB-01 and did not have significant impacts below nineteen feet, it is likely that DNAPL was entering the well from above nineteen feet bgs.

Figure 7-10 is a south-north cross section and illustrates the extent of impacts on the east edge of the site. Extent of impacts is bounded at the north end of the section by boring UTB-02 and groundwater samples from UMW-102. The extent of impacts is also bounded to the south end of the section by boring UTB-04 and groundwater samples from UMW-104. Both of these monitoring wells have no Class I impacts. Three of the four samples in the center of the section are impacted (B-559, B-560, and B-558). Impacts in boring B-559 and B-558 are relatively minor and shallow. Boring B-560 appears to have impact to the total depth of the boring (27-feet bgs).

8 ILLINOIS LICENSED PROFESSIONAL GEOLOGIST REVIEW

For those portions of the work performed before my involvement:

I have reviewed documentation of the prior investigation and interim remedial measure activities and believed the documentation is suitable for compliance with 35 Ill. Adm. Code 740 developed in conjunction with the use of accepted engineering and geological standards, and the information presented is accurate and complete.

Signature: _____

Michael R. Crutcher, P.G.
Licensed Professional Geologist

Date: 12-20-2007

License No. 196-000860

License Expiration Date: 3-31-2009

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List of Abbreviations and Acronyms

BGS – Below Ground Surface
BLS – Below Land Surface
BTEX – Benzene, Toluene, Ethylbenzene, and Xylenes
CN – Cyanide
COC – Constituents of Concern
CSI – Comprehensive Site Investigation
CSIR – Comprehensive Site Investigation Report
CSIWP – Comprehensive Site Investigation Work Plan
DNAPL – Dense Non-Aqueous Phase Liquid
DQO – Data Quality Objective
EDR – Environmental Data Resources
GC – Gas Chromatograph
IAC – Illinois Administrative Code
IEPA – Illinois Environmental Protection Agency
IRA – Interim Removal Action
IRM – Interim Remedial Measures
LUST – Leaking Underground Storage Tank
MGP – Manufactured Gas Plant
NAPL – Non-aqueous Phase Liquid
NFR – No Further Remediation
NGVD – National Geodetic Vertical Datum
NIWC – Northern Illinois Water Company
OCC – Organic Carbon Concentration
PA – Preliminary Assessment
PAH – Polycyclic Aromatic Hydrocarbon
QAPP – Quality Assurance Project Plan
RA – Remedial Applicant
RACR – Remedial Action Completion Report
RCRA – Resource Conservation and Recovery Act
RECs – Recognized Environmental Conditions
ROs – Remediation Objectives
ROR – Remedial Objectives Report
RECs – Recognized Environmental Conditions
SIR – Site Investigation Report
SIWP – Site Investigation Work Plan
SI – Site Investigation
SRP – Site Remediation Program
SSI – Supplemental Site Investigation
SVOCs – Semi-Volatile Organic Compounds
TACO – Tiered Approach to Corrective Action Objectives
TCLP – Toxicity Characteristic Leaching Procedure
TOC – Total Organic Carbon
TPH – Total Petroleum Hydrocarbons
UST – Underground Storage Tank
VOCs – Volatile Organic Compounds

List of Tables

TABLE ES-1
MANUFACTURED GAS PLANT RELATED CONSTITUENTS OF CONCERN
COMPREHENSIVE SITE INVESTIGATION REPORT
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

SOIL	***GROUNDWATER***
Inorganics	
Cyanide	
Metals	
Chromium	
Lead	
Arsenic	
Volatile Aromatics	**Volatile Aromatics**
Benzene	Benzene
Ethylbenzene	Ethylbenzene
Toluene	Toluene
Total Xylenes	
Styrene	
Acetone	
Methylene Chloride	
Polycylic Aromatic Hydrocarbons	**Polycylic Aromatic Hydrocarbons**
Acenaphthene	
Acenaphthylene	Acenaphthene
Benzo(a)anthracene	Acenaphthylene
Benzo(a)pyrene	Benzo(a)anthracene
Benzo(b)fluoranthene	Benzo(a)pyrene
Benzo(k)fluoranthene	Benzo(b)fluoranthene
Chrysene	Chrysene
Dibenzo (a,h,)anthracene	Fluoranthene
Dibenzofuran	Fluorene
Fluorene	Indeno(1,2,3,cd)pyrene
Indeno(1,2,3,cd)pyrene	Naphthalene
Naphthalene	Phenanthrene
Phenanthrene	Pyrene
2-methylnaphthalene	

TABLE 2-1
BROWNS DIRECTORY SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Year	Company Name	Process Type/Name	Annual Production (cubic feet)	Gas Holder Capacity (cubic feet)	Gas Unaccounted For	Tar Produced (gals)	Tar Sold (gals)	Coke Produced (tons)	Coke Sold (tons)	Coke Used (tons)	Gas Oil Used (gals)	Notes
1887	Champaign & Urbana Gas Light Co.											
1888												
1889	Champaign & Urbana Gas Light Co.	Coal										
1890	Champaign & Urbana Gas Light & Coke Co.	Coal	6,000,000									
1891	Champaign & Urbana Gas Light & Coke Co.	Coal	6,000,000									
1892	Champaign & Urbana Gas Light & Coke Co.	Coal										
1893	Champaign & Urbana Gas Light & Coke Co.	Coal	6,000,000									
1894	Champaign & Urbana Gas Light & Coke Co.	Coal	6,000,000									
1895												
1896												
1897												
1898												
1899	Urbana & Champaign Gas & Elec. Co.	Coal	15,000,000									
1900	Urbana & Champaign Gas & Elec. Co.	Coal	22,000,000									
1901	Urbana & Champaign Gas & Elec. Co.	Coal	26,000,000									
1902	Urbana & Champaign Gas & Elec. Co.	Coal	26,000,000									
1903	Urbana & Champaign Gas & Elec. Co.	Coal	26,000,000									
1904	Urbana & Champaign Gas & Elec. Co.	Coal	26,000,000									
1905	Urbana & Champaign Gas & Elec. Co.	Coal	26,000,000									
1906	Urbana & Champaign Railway, Gas & Elec. Co.	Coal	35,000,000									
1907	Urbana & Champaing Railway, Gas & Elec. Co.	Coal & Oil	30,000,000									
1908	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Oil	40,000,000									
1909	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Oil	40,000,000									
1910	Urbana & Champaingn Railway, Gas & Elec. Co	Coal & Oil	63,000,000	120,000	12.00%							1
1911	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Oil	50,000,000	500,000	15.00%							
1912	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Lowe	65,000,000	500,000	11.00%							
1913	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Lowe	76,016,000	500,000	10.00%							1
1914	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Lowe	76,016,000	500,000	10.00%							
1915	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Lowe	90,000,000	500,000	10.00%							1,2
1916	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Lowe	90,000,000	500,000	10.00%							1,2
1917	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Lowe	107,787,300	500,000	10.50%	34,864	34,864	2,074	2,074			1,2,3
1918	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Lowe	107,787,300	500,000	10.50%	34,864	34,864	2,074	2,074			1,2,3
1919	Urbana & Champaign Railway, Gas & Elec. Co.	Coal & Lowe	128,000,000	440,000	8.00%	75,000	75,000	2,060	2,060			1,2,4
1920	Urbana & Champaign Railway, Gas & Elec. Co.	Water & coal gas	125,089,460	440,000		110,394	110,394	920	920			1,5,6
1921	Urbana & Champaign Railway, Gas & Elec. Co.	Water & coal gas	181,990,000	440,000	10.80%							5
1922	Urbana & Champaign Railway, Gas & Elec. Co.	Water gas	194,652,800	440,000	6.90%		78,240				668,998	5
1923	Urbana & Champaign Railway, Gas & Elec. Co.	Water gas	218,306,200	600,000	11.10%		40,000				668,998	5
1924	Urbana & Champaign Railway, Gas & Elec. Co.	Water gas	218,306,200	600,000	11.10%		40,000				668,998	7
1925	Illinois Power & Light Corp.	Water gas	230,366,600	630,000	11.10%		73,000			4,847	734,534	8
1926	Illinois Power & Light Corp.	Water gas	258,387,500	600,000	11.30%	122,703	100,000			4,847	734,534	
1927	Illinois Power & Light Corp.	Water gas	298,543,000	600,000	18.31%	95,000				5,139	949,992	9,10
1928	Illinois Power & Light Corp.	Water gas	301,745,000	600,000	18.33%	191,400				5,139	945,918	9,10
1929	Illinois Power & Light Corp.	Water gas	397,465,000	600,000	13.45%	399,402				4,870	976,778	9,11
1930	Illinois Power & Light Corp.	CWG	338,722,000	600,000	14.89%	229,453				5,250	1,122,986	9,12
1931	Illinois Power & Light Corp.	CWG	336,360,00	600,000	15,94%	244,305				5,655	1,097,384	9,15,16
1932	Illinois Power & Light Corp.	CWG	338,769,000	600,000	15.10%	171,497				5,676	1,052,314	9,13,14
1933	Illinois Power & Light Corp.	CWG	58,841,000	600,000	13.80%	8,473				1,131	73,052	9, 16,17,18
1934	No Listing											
1935	No Listing											

Notes:

1. Annual Production is reported as sales; therefore, actual production estimated to be 12% higher
2. Controlled by Illinois Traction Co.
3. Annual production: Coal gas, 30,232,500 c.f.; oil gas, 100,687,000 c.f.
4. Annual production; Coal gas, 40,020,000 c.f.; oil gas, 102,800,000 c.f.
5. controlled by Danville, Champaign & Decatur Ry. & Lt. Co., which is controlled by the Illinois Traction Co.
6. Annual production; Coal gas, 14,818,500 c.f.; Water gas, 152,287,900 c.f.
7. Controlled by Danville, Champaign & Decatur Ry. & Lt. Co., which is controlled by the Illinois Power & Light Co.
8. Formerly Urbana and Champaign Railway Gas & Electric Co.
9. Gas holder capacity, 500,000 c.f.; relief, 100,000 c.f.
10. "Coke Used" is reported as "coal " used; water gas generator fuel , 6,034 tons
11. Gas purchased, 5,320,000 c.f. from Coal Gas Experimental Plant
12. Boiler fuel used; 2,787 tons Indiana screenings; 74,313 gals. Tar
13. Bituminous coal used as water gas generator fuel, 5,676 tons
14. Boiler fuel used, 1,628 tons coal; tar, 170,820 gal.
15. Bituminous coal used as water gas generator fuel
16. Subsidiary of North American Light & Power Co.
17. Carbureted water gas plant now shut down, serving natural gas
18. Gas purchased, 185,199,000 c.f. natural gas from Panhandle Illinois Pipe Line Co.

TABLE 2-2
SUMMARY OF SOIL SAMPLE PHYSICAL PROPERTY LABORATORY TEST RESULTS
PHASE II SI
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Boring Number	Sample Depth (ft)	Natural Moisture Content (%)	Dry Unit Weight (pcf)	Atterburg Limits			Particle Size Curve Number	Verticle Permeability (cm/sec)	Hydraulic Gradient
				Liquid Limit	Plastic Limit	Plastic Index			
UTB-02	3.5-8.5	15.4	--	--	--	--	--	--	--
UTB-02	8.5-13.5	15.0	--	--	--	--	--	--	--
UTB-02	13.5-15.5	11.0	--	21	12	9	1	--	--
UTB-03	3.5-8.5	21.5	--	--	--	--	--	--	--
UTB-03	8.5-13.5	26.3	--	--	--	--	--	--	--
UTB-03	13.5-19.5	19.6	--	--	--	--	--	--	--
UTB-03	18.5-23.5	4.0	--	--	--	--	--	--	--
UTB-04	0.0-3.5	26.1	--	--	--	--	--	--	--
UTB-04	3.5-8.5	18.1	--	--	--	--	--	--	--
UTB-04	8.5-13.5	14.7	--	--	--	--	--	--	--
UTB-04	15.5-18.5	14.0	--	--	--	--	--	--	--
UTB-04	18.5-23.5	11.5	--	--	--	--	--	--	--
UTB-06	20.0-20.5	11.6	127.8	21	12	9	2	$1.8x10^{-8}$	45.5
UTB-07	2.5-5.0	25.2	98.0	--	--	--	--	$4.6x10^{-8}$	34.6
UTB-07	14.0-14.5	11.5	--	22	11	11	3	--	--
UTB-11	150.0-151.5	18.6	--	Nonplastic	--	--	4	--	--
UTB-12	174.5-176.5	14.3	--	Nonplastic	--	--	5	--	--
UTB-13	3.5-4.0	18.5	103.7	50	19	31	6	$1.1x10^{-7}$	35.9
UTB-19	14.0-14.5	11.5	128.8	24	13	11	7	$5.3x10^{-8}$	32.1

ft - Feet.
% - Percent.
pcf - Pounds per cubic foot.
cm/sec - Centimeters per second.
-- Test not performed.
See Appendix I for Particle Curves

TABLE 2-3
SINGLE WELL HYDRAULIC CONDUCTIVITY TEST RESULTS
PHASE II SI

CHAMPAIGN MGP SITE
CHAMPAIGN, ILINOIS
AMERENIP

Well No.	Depth Interval Monitored (feet bgs)	Monitored Zone Thickness (ft)	Hydraulic Conductivity (cm/sec)
UMW-102	7-22	15	5.93×10^{-5}
UMW-104	10-20	10	1.80×10^{-4}
UMW-106	10-20	10	1.21×10^{-6}
UMW-108	5-15	10	5.23×10^{-6}

bgs - below ground surface

TABLE 2-4
PHASE 1C and 1D SOIL-GAS SURVEY RESULTS
FORMER MANUFACTURED GAS FACILITY
CHAMPAIGN, ILLINOIS
ILLINOIS POWER COMPANY
1990

			Concentration (micrograms per liter)						
Sample Location	Date Sampled	Sample Depth (feet)	Benzene	Toluene	Ethyl Benzene	Meta & Para-Xylene	Ortho-Xylene	Total BTEX	TPH
PH-1	Mar-90	24	289	179	49	178	89	784	-----
PH-3	Mar-90	18	96	114	81	109	115	515	-----
PH-3	Mar-90	10	543	540	1,106	604	956	3,749	-----
PH-4	Mar-90	27	2,841	614	2,180	714	705	7,054	-----
PH-4	Mar-90	18	3,668	810	2,973	859	858	9,168	-----
PH-4	Mar-90	10	1,560	422	1,932	573	587	5,074	-----
PH-4	Mar-90	3	3,718	1,083	3,603	1,166	1,143	10,713	-----
PH-5	Mar-90	23.5	132	85	526	256	252	1,251	-----
PH-6	Mar-90	23	98	108	339	225	151	921	-----
PH-7	Mar-90	15	801	8	32	9	6	856	-----
PH-14	Mar-90	18	4,660	1,572	2,164	1,476	1,289	11,161	-----
PH-16	Mar-90	22	3,023	457	195	187	151	4,013	-----
PH-17	Mar-90	10	114	34	627	246	281	1,302	-----
PH-23	Mar-90	10	2,112	563	1,352	948	505	5,480	-----
PH-24	Mar-90	10	9,531	481	4,774	3,011	1,760	19,557	-----
PH-27	Mar-90	11	4,279	1,241	6,259	2,617	1,645	16,041	-----
PH-31	Mar-90	15	ND	ND	95	84	ND	179	-----
PH-33	Mar-90	16	653	690	1,190	861	562	3,956	-----
PH-34	Mar-90	16	127	60	844	116	261	1,408	-----
PH-35	Mar-90	12	23	ND	118	77	ND	218	-----
PH-36	Mar-90	10	59	ND	281	ND	158	498	-----
PH-8	Mar-90	19	5	1	2	2	ND	10	-----
PH-9	Mar-90	21	1	1	ND	ND	ND	2	-----
PH-10	Mar-90	29	1	1	1	2	ND	5	-----
PH-11	Mar-90	15	1	2	2	3	2	10	-----
PH-12	Mar-90	15	427	183	694	366	272	1,942	-----
PH-15	Mar-90	10	925	1,309	1,099	741	377	4,451	-----
PH-18	Mar-90	10	374	279	1,294	774	529	3,250	-----
PH-19	Mar-90	17	42	57	215	138	159	611	-----
PH-21	Mar-90	15	7,869	7,784	5,963	5,374	2,577	29,567	-----
PH-22	Mar-90	23	1,510	255	237	720	406	3,128	-----
PH-25	Mar-90	17	593	73	1,317	268	491	2,742	-----
PH-26	Mar-90	11	59	ND	231	151	103	544	-----
PH-28	Mar-90	11	59	80	393	210	150	892	-----
PH-29	Mar-90	10	3,579	2,651	2,548	1,669	860	11,307	-----
PH-30	Mar-90	15	371	194	522	454	363	1,904	-----
PH-32	Mar-90	18	5,187	2,680	2,082	1,811	1,245	13,005	-----
PH-101	May-90	20	11	ND	ND	2	ND	13	49
PH-103	May-90	10	108	5	26	18	21	178	347
PH-104	May-90	17	ND	ND	ND	ND	ND	ND	10
PH-105	May-90	25	ND	ND	ND	ND	ND	ND	5
PH-106	May-90	16	ND	ND	ND	ND	ND	ND	11
PH-107	May-90	20	ND	ND	ND	ND	ND	ND	8
PH-109	May-90	25	23	11	31	17	16	98	166
PH-110	May-90	17	90	34	100	81	60	365	437
PH-111	May-90	28	3	ND	2	ND	ND	5	24

TABLE 2-4
PHASE 1C and 1D SOIL-GAS SURVEY RESULTS
FORMER MANUFACTURED GAS FACILITY
CHAMPAIGN, ILLINOIS
ILLINOIS POWER COMPANY
1990

		Concentration (micrograms per liter)							
Sample Location	Date Sampled	Sample Depth (feet)	Benzene	Toluene	Ethyl Benzene	Meta & Para-Xylene	Ortho-Xylene	Total BTEX	TPH
PH-112	May-90	23	ND	ND	ND	ND	ND	ND	6
PH-113	May-90	25	272	272	134	271	155	1,104	1,541
PH-115	May-90	17.5	ND	ND	ND	ND	ND	ND	13
PH-117	May-90	17.5	ND	ND	ND	ND	ND	ND	8
PH-117	May-90	17.5	ND	ND	ND	ND	ND	ND	12
PH-118	May-90	25	15	49	6	17	7	94	140
PH-119	May-90	12	284	920	86	580	232	2,102	2,318
PH-120	May-90	12	20	56	35	122	65	298	471
PH-121	May-90	25	ND	ND	ND	ND	ND	ND	9
PH-122	May-90	25	ND	ND	ND	ND	ND	ND	7
PH-123	May-90	22	ND	ND	ND	ND	ND	ND	6
PH-124	May-90	12	ND	ND	ND	ND	ND	ND	17
PH-126	May-90	12	264	409	604	864	583	2,724	3,365
PH-127	May-90	12	31	21	38	105	105	300	347
PH-129	May-90	12	ND	ND	ND	ND	ND	ND	20
PH-130	May-90	12	ND	ND	ND	ND	ND	ND	7
PH-132	May-90	12	ND	ND	ND	ND	ND	ND	13
PH-133	May-90	17	ND	ND	ND	ND	ND	ND	21
PH-134	May-90	12	ND	ND	ND	ND	ND	ND	10
PH-135	May-90	15	ND	ND	ND	ND	ND	ND	16
PH-136	May-90	12	3	1	5	3	9	21	47
PH-137	May-90	15	ND	ND	ND	ND	ND	ND	9
PH-137	May-90	15	ND	ND	ND	ND	ND	ND	15
PH-139	May-90	25	3	ND	2	ND	ND	5	52
PH-140	May-90	12	ND	ND	23	37	ND	60	1,463
PH-141	May-90	12	ND	ND	10	ND	ND	10	40
PH-142	May-90	12	ND	ND	ND	ND	ND	ND	9
PH-100	May-90	38	15	ND	ND	6	ND	21	516
PH-102	May-90	5	18	ND	ND	17	ND	35	175
PH-108	May-90	27	ND	ND	ND	ND	ND	ND	75
PH-108	May-90	27	ND	ND	ND	ND	ND	ND	79
PH-114	May-90	25	155	139	193	139	87	713	5,879
PH-116	May-90	17.5	ND	ND	8	ND	3	11	19
PH-125	May-90	36	2	ND	ND	ND	ND	2	174
PH-125	May-90	36	1	ND	ND	ND	ND	1	138
PH-128	May-90	12	ND	ND	ND	ND	ND	ND	23
PH-131	May-90	12	48	3	10	5	7	73	661
PH-138	May-90	14	1	ND	ND	ND	ND	1	144

ND - Not Detected above method detection limit

TABLE 2-5
PHASE II SI SOIL ANALYTICAL SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

	SOIL SAMPLE			CHEMICAL PARAMETERS										
	FIELD	LAB	DEPTH	SW-846 LABORATORY ANALYTICAL METHOD (DILUTION)										
	NUMBER	NUMBER	INTERVAL (feet)	VOCs	SVOCs	PAH	TPH	Phenols	Metals	As	Hg	CN	COD
1	UTB-01-01	A219787	21 - 23	8240 (1:63)	8270			9066	6010	7060	7471		
2	UTB-01-02	A219792	27 - 28	8240	8270			9066					
3	UTB-03-01	A219237	11 - 13.5	8240	8270		8015 MOD	9066				9012	410.4
4	UTB-03-02	A219238	18.5 - 23.5	8240	8270		8015 MOD	9066				9012	410.4
5	UTB-08-01	A219235	04 - 09	8240	8270		8015 MOD	9066				9012	410.4
6	UTB-08-02	A219236	09 - 13	8240	8270		8015 MOD	9066				9012	410.4
7	UTB-10-01	A219239	09 - 10	8240 (1:63)	8270 (1:50)		8015 MOD	9066				9012	410.4
8	UTB-10-02	A219240	14 - 19	8240	8270		8015 MOD	9066				9012	410.4
9	UTB-11-01	A219786	08 - 13	8240 (1:630)	8270 (1:25)			9066	6010	7060	7471		
10	UTB-11-02	A219791	21 - 22	8240 (1:63)	8270			9066					
11	UTB-14-01	A219788	04 - 05	8240 (1:63)	8270 (1:10)			9066	6010	7060	7471		
12	UTB-14-02	A219793	32 - 33	8240	8270			9066					
13	UTB-15-S01	A244475	09 - 11	8240 (1:63)	8270	8310 (1:200)	SM 503E	9066	6010	7060 (1:5)	7471 MOD	9012	410.4 (1:100)
14	UTB-15-S02	A244476	33 - 35	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)
15	UTB-16-01	A219789	08 - 10	8240	8270 (1:20)			9066	6010	7060	7471		
16	UTB-16-02	A219794	16.5 - 18	8240	8270			9066					
17	UTB-18-01	A219790	4.5 - 05	8240	8270			9066	6010	7060	7471		
18	UTB-18-02	A219795	17 - 18	8240 (1:63)	8270			9066					
19	UTB-20-S01	A244469	07 - 09	8240 (1:63)	8270	8310	SM 503E	9066	6010	7060 (1:5)	7471 MOD	9012	410.4 (1:100)
20	UTB-20-S02	A244470	17 - 18	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)
21	UTB-21-S01	A244471	03 - 08	8240 (1:630)	8270 (1:2)	8310 (1:200)	SM 503E	9066	6010	7060 (1:5)	7471 MOD	9012	410.4 (1:100)
22	UTB-21-S02	A244472	20 - 23	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)
23	UTB-22-S01	A244473	06 - 08	8240 (1:63)	8270 (1:4)	8310 (1:20)	SM 503E	9066	6010	7060 (1:2)	7471 MOD	9012	410.4 (1:100)
24	UTB-22-S02	A244474	20 - 23	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)
25	UTB-23-S01	A244479	06 - 08	8240 (1:25000)	8270 (1:250)	8310 (1:500)	SM 503E	9066	6010	7060 (1:5)	7471 MOD	9012 (1:150)	410.4 (1:100)
26	UTB-23-S02	A244480	26 - 28	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)
27	UTB-24-S01	A244481	06 - 08	8240 (1:630)	8270	8310 (1:200)	SM 503E	9066	6010	7060 (1:4)	7471 MOD	9012 (1:150)	410.4 (1:100)
28	UTB-24-S02	A244482	21 - 23	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)
29	UTB-25-S01	A244477	09 - 11	8240 (1:630)	8270	8310 (1:200)	SM 503E	9066	6010	7060 (1:5)	7471 MOD	9012 (1:150)	410.4 (1:100)
30	UTB-25-S02	A244478	26 - 28	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)
31	UTB-26-S01	A244483	06 - 08	8240 (1:63)	8270 (1:630)	8310 (1:200)	SM 503E	9066	6010	7060 (1:4)	7471 MOD	9012 (1:150)	410.4 (1:100)
32	UTB-26-S02	A244484	21 - 23	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)
33	UTB-27-S01	A244485	06 - 08	8240 (1:630)	8270 (1:2)	8310 (1:200)	SM 503E	9066	6010	7060 (1:4)	7471 MOD	9012 (1:150)	410.4 (1:100)
34	UTB-27-S02	A244486	21 - 23	8240 (1:63)	8270	8310	SM 503E	9066				9012	410.4 (1:100)

(1:20) = Dilution factor

Chemical Parameters:

VOCs - Volatile Organic Compounds.
SVOCs - Semi-Volatile Organic Compounds.
PAH - Polycyclic Aromatic Hydrocarbons.
TPH - Total Petroleum Hydrocarbons.
As - Arsenic.
Hg - Mercury.
CN - Cyanide.
COD - Chemical Oxygen Demand.

Table 2-6

MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
CHAMPAIGN MGP SITE
CHAMPAIGN, ILINOIS

MW / PZ NUMBER	DATE INSTALLED	TOTAL DEPTH FEET (BGS)	CONSTRUCTION TYPE	SCREEN INTERVAL FEET (BGS)	SURFACE ELEVATION
UMW-101	12/04/90	26.5	PVC-2"	14.0 - 26.5	736.4
UMW-102	11/28/90	22.4	PVC-2"	6.0 - 22.4	737.8
UMW-103	11/30/90	21.0	PVC-2"	7.0 - 21.0	736.5
UMW-104	11/27/90	23.5	PVC-2"	7.8 - 23.5	736.5
UMW-105	12/05/90	19.7	PVC-2"	7.7 - 19.7	737.8
UMW-106	11/29/90	21.0	PVC-2"	7.0 - 21.0	737.7
UMW-107	12/05/90	19.7	PVC-2"	7.5 - 19.7	737.3
UMW-108	11/29/90	16.0	PVC-2"	3.8 - 16.0	737.2
UMW-109	12/17/91	20.0	SS-2"	9.0 - 20.0	735.7
UMW-110	12/04/90	21.0	PVC-2"	8.3 - 21.0	737.4
UMW-111	12/07/90	19.8	SS-2"	7.5 - 19.8	736.1
UMW-112	12/07/90	20.0	SS-2"	7.0 - 20.0	737.9
UMW-113	12/11/91	20.5	SS-2"	8.0 - 20.5	738.0
UMW-114	12/12/91	21.0	SS-2"	8.0 - 21.0	738.2
UMW-115	12/12/91	21.0	SS-2"	8.0 - 21.0	738.1
UMW-116	12/11/91	20.0	SS-2"	8.0 - 20.0	737.2
UMW-401	12/05/90	175.0	PVC-2"	138.5 - 175.0	738.7
UMW-402	12/03/90	176.5	PVC-2"	134.0 - 170.0	737.6
UMW-403	12/07/90	170.0	PVC/SS-2"	128.0 - 170.0	737.5
UPZ-101	12/06/90	8.0	PVC-1"	4.0 - 8.0	738.2
UPZ-201	12/06/90	16.0	PVC-1"	12.0 - 16.0	738.2
UPZ-301	12/06/90	25.0	PVC-1"	21.0 - 25.0	738.2
UPZ-102	12/13/91	10.5	PVC-1"	4.0 - 10.5	738.0
UPZ-202	12/13/91	25.5	PVC-1"	19.5 - 25.5	738.0
UPZ-302	12/13/91	35.0	PVC-1"	29.0 - 35.0	738.0
UPZ-103	12/06/90	9.5	PVC-1"	4.5 - 9.5	737.4
UPZ-203	12/06/90	15.0	PVC-1"	11.5 - 15.0	737.4
UPZ-104	12/14/91	11.0	PVC-1"	4.0 - 11.0	738.7
UPZ-204	12/14/90	24.0	PVC-1"	17.0 - 24.0	738.7
UPZ-105	12/15/91	10.5	PVC-1"	4.0 - 10.5	738.6
UPZ-205	12/15/91	20.5	PVC-1"	14.0 - 20.5	738.6
UPZ-106	12/14/91	13.5	PVC-1"	7.0 - 13.5	738.4
UPZ-206	12/14/91	23.5	PVC-1"	17.0 - 23.5	738.4
UPZ-107	12/15/91	12.5	PVC-1"	3.0 - 12.5	737.9
UPZ-108	12/16/91	15.5	PVC-1"	4.0 - 15.5	739.3

PVC - Polyvinyl Chloride.

SS - Stainless Steel.

BLS - Below Land Surface.

TABLE 2-7
PHASE II GROUNDWATER ANALYTICAL SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

MONITORING WELL NUMBER	GROUNDWATER SAMPLE			CHEMICAL PARAMETERS													
	FIELD NUMBER	LAB NUMBER	DATE	SW-846 LABORATORY ANALYTICAL METHOD (DILUTION)													
				VOCs	SVOCs	PAH	TPH	Phenols	Metals	As	Hg	CN	COD	Am Nitr	Nit Nitr	Sulfate	Sulfide
UMW - 101	UMW-101-1290	A220595	17-Dec-90	8240 (1:10)	8270 (1:10)		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 101	UMW-101-0192	A246331	24-Jan-92	8240 (1:2500)	8270 (1:20)												
UMW - 102	UMW-102-1290	A220507	17-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 102	UMW-102-0192	A246292	24-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:25)	9030
UMW - 102	UMW-102-0193	A270516	07-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:20)	9030
UMW - 103	UMW-103-1290	A220499	16-Dec-90	8240 (1:10)	8270 (1:50)		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 103	UMW-103-0192	A246293	24-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:10)	9030
UMW - 103	UMW-153-0192	A246294	24-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3 (1:10)	353.2	9038 (1:5)	9030
UMW - 103	UMW-103-0193	A270514	07-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:10)	9030
UMW - 104	UMW-104-1290	A220502	16-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 104	UMW-104-0193	A270392	06-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:5)	9030
UMW - 105	UMW-105-1290	A220503	16-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 105	UMW-155-1290	A220504	16-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 105	UMW-105-0192	A246071	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:10)	9030
UMW - 105	UMW-105-0193	A270872	05-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:100)	9030
UMW - 106	UMW-106-1290	A220501	16-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 106	UMW-106-0192	A246069	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:25)	9030
UMW - 106	UMW-106-0193	A270522	08-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3 (1:10)	353.2	375.4 (1:20)	9030
UMW - 107	UMW-107-1290	A220500	16-Dec-90	8240 (1:50)	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 107	UMW-107-0192	A246295	23-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3 (1:10)	353.2	9038	9030
UMW - 108	UMW-108-1290	A220596	17-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3 (1:5)	353.2	375.4	9030
UMW - 108	UMW-108-0192	A246066	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:5)	9030 (1:2)
UMW - 108	UMW-108-0193	A270519	07-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:5)	9030
UMW - 109	UMW-109-0192	A246067	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:25)	9030 (1:2)
UMW - 109	UMW-109-0193	A270394	05-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 110	UMW-110-1290	A220498	16-Dec-90	8240	8270 (1:5)		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3 (1:25)	353.2	375.4	9030
UMW - 110	UMW-110-0192	A246319	25-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3 (1:5)	353.2	9038 (1:25)	9030
UMW - 110	UMW-110-0193	A270876	06-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:100)	9030
UMW - 111	UMW-111-1290	A220597	17-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030

TABLE 2-7
PHASE II GROUNDWATER ANALYTICAL SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

MONITORING WELL NUMBER	GROUNDWATER SAMPLE			CHEMICAL PARAMETERS													
	FIELD NUMBER	LAB NUMBER	DATE	SW-846 LABORATORY ANALYTICAL METHOD (DILUTION)													
				VOCs	SVOCs	PAH	TPH	Phenols	Metals	As	Hg	CN	COD	Am Nitr	Nit Nitr	Sulfate	Sulfide
UMW - 111	UMW-111-0192	A246070	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:5)	9030
UMW - 111	UMW-111-0193	A270398	05-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:10)	9030
UMW - 112	UMW-112-1290	A220504	16-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 112	UMW-112-0192	A246072	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:10)	9030
UMW - 112	UMW-162-0192	A246065	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:10)	9030 (1:2)
UMW - 112	UMW-112-0193	A270517	07-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:5)	9030
UMW - 112	UMW-162-0193	A270518	07-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:5)	9030
UMW - 113	UMW-113-0192	A246296	23-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:10)	9030
UMW - 113	UMW-163-0192	A246298	23-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:10)	9030
UMW - 113	UMW-113-0193	A270521	08-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:10)	9030
UMW - 114	UMW-114-0192	A246300	23-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3 (1:10)	353.2	9038 (1:5)	9030
UMW - 114	UMW-114-0193	A270520	08-Jan-93	8240	8270	8310 (1:10)	8015 MOD	9066	6010	7060	7470	9012	410.4 (1:5)	350.3	353.2	375.4 (1:5)	9030
UMW - 115	UMW-115-0192	A246299	23-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3 (1:10)	353.2	9038 (1:50)	9030 (1:2)
UMW - 115	UMW-115-0193	A270513	07-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4 (1:5)	350.3 (1:5)	353.2	375.4 (1:50)	9030
UMW - 116	UMW-116-0192	A246064	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038 (1:25)	9030 (1:2)
UMW - 116	UMW-116-0193	A270873	05-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:100)	9030
UMW - 401	UMW-401-1290	A220598	17-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 401	UMW-451-1290	A220599	17-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 401	UMW-401-0192	A246297	23-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038	9030
UMW - 401	UMW-401-0193	A270515	07-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 402	UMW-402-1290	A220506	16-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 402	UMW-402-0193	A270396	06-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 403	UMW-403-1290	A220739	19-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UMW - 403	UMW-403-0193	A270395	06-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:5)	9030
UMW - 403	UMW-453-0193	A270397	06-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4 (1:5)	9030
UPZ - 101	UPZ-101-1290	A220737	19-Dec-90	8240	8270 (1:10)		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UPZ - 301	UPZ-301-1290	A220738	19-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UPZ - 303	UPZ-303-1290	A220740	19-Dec-90	8240	8270		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	375.4	9030
UPZ - 104	UPZ-104-0193	A270874	04-Jan-93	8240	8270 (1:2)	8310 (1:5)	8015 MOD	9066	6010	7060	7470	9012	410.4 (1:5)	350.3 (1:25)	353.2	375.4 (1:100)	9030
UPZ - 105	UPZ-105-0193	A270393	04-Jan-93	8240	8270	8310	8015 MOD	9066	6010	7060	7470	9012	410.4 (1:5)	350.3 (1:5)	353.2	375.4 (1:5)	9030
UPZ - 106	UPZ-106-0193	A270875	04-Jan-93	8240	8270 (1:2)	8310 (1:5)	8015 MOD	9066	6010	7060	7470	9012	410.4 (1:5)	350.3 (1:5)	353.2	375.4 (1:100)	9030

TABLE 2-7
PHASE II GROUNDWATER ANALYTICAL SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

MONITORING WELL NUMBER	GROUNDWATER SAMPLE			CHEMICAL PARAMETERS													
	FIELD NUMBER	LAB NUMBER	DATE	SW-846 LABORATORY ANALYTICAL METHOD (DILUTION)													
				VOCs	SVOCs	PAH	TPH	Phenols	Metals	As	Hg	CN	COD	Am Nitr	Nit Nitr	Sulfate	Sulfide
QA SAMPLES																	
UMW - 001	UMW-001-1290	A220509	17-Dec-90	8240													
UMW - 002	UMW-002-1290	A220601	17-Dec-90	8240													
UMW - 701	UMW-701-1290	A220508	17-Dec-90	8240													
UMW - 702	UMW-702-1290	A220602	17-Dec-90	8240													
UMW - 001	UMW-001-0192	A246068	21-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038	9030
UMW - 002	UMW-002-0192	A246291	23-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038	9030
UMW - 003	UMW-003-0192	A246318	24-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038	9030
UMW - 004	UMW-004-0192	A246322	25-Jan-92	624	625		8015 MOD	9066	6010	7060	7470	9012	410.4	350.3	353.2	9038	9030
UMW - 501	UMW-501-0192	A246073	21-Jan-92	624													
UMW - 503	UMW-503-0192	A246302	23-Jan-92		625		8015 MOD										
UMW - 504	UMW-504-0192	A246301	24-Jan-92	624													
UMW - 505	UMW-505-0192	A246323	25-Jan-92	624													
UPZ - 501	UPZ-501-0193	A270923	04-Jan-93	8240													
UMW - 501	UMW-501-0193	A270399	05-Jan-93	8240													
UMW - 502	UMW-502-0193	A270924	06-Jan-93	8240													
UMW - 503	UMW-503-0193	A270524	08-Jan-93	8240													
UMW - 504	UMW-504-0193	A270523	08-Jan-93	8240													

(1:20) = Dilution factor

Chemical Parameters:

- VOCs - Volatile Organic Compounds.
- SVOCs - Semi-Volatile Organic Compounds.
- PAH - Polycyclic Aromatic Hydrocarbons.
- TPH - Total Petroleum Hydrocarbons.
- As - Arsenic.
- Hg - Mercury.
- CN - Cyanide.
- COD - Chemical Oxygen Demand.
- Am Nitr - Amonia Nitrogen.
- Nit Nitr - Nitrate Nitrogen.
- DO - Dissolved Oxygen.
- SC - Specific Conductance.

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	CHTP-04 3/12/1997	UMW-101 12/17/1990	UMW-101 1/24/1992	UMW-101 2/15/1996	UMW-102 12/17/1990	UMW-102 1/24/1992	UMW-102 1/7/1993	UMW-102 2/13/1996	UMW-102 5/7/1996	UMW-102 8/6/96	UMW-102 11/4/1996	UMW-102 2/3/1997	UMW-102 5/7/1997	UMW-102 8/4/1997	UMW-102 11/3/1997	UMW-102 2/2/1998
BTEX Constituents																		
Benzene	(ug/l)	5	10	1100	14000	2060	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Ethylbenzene	(ug/l)	1000	<1.0	790	430000	1440	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Toluene	(ug/l)	700	3	470	61000	820	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Xylene (total)	(ug/l)	10000	-----	850	590000	1510	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
PNA Constituents																		
Acenaphthene	(ug/l)	420	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	(ug/l)	2100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	(ug/l)	140	-----	-----	-----	-----	-----	-----	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Phenanthrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Metal Constituents																		
Arsenic	(mg/l)	0.05	<0.0020	0.058	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barium	(mg/l)	2.0	0.018	1.8	-----	-----	0.18	0.28	0.13	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cadmium	(mg/l)	0.005	<0.0020	<1.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	(mg/l)	0.1	-----	0.86	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	(mg/l)	0.65	0.008	0.79	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	0.07	-----	-----	0.02	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Iron	(mg/l)	5.0	1.8	1200	-----	-----	5.6	-----	13	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	(mg/l)	0.0075	0.0067	0.65	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Manganese	(mg/l)	0.15	-----	20	-----	-----	2	5.8	7.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	(mg/l)	0.002	0.11	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nickel	(mg/l)	0.1	<0.00005	1.2	-----	-----	0.02	0.12	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	(mg/l)	0.05	<0.006	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	(mg/l)	5.0	0.15	2.8	-----	-----	0.1	0.48	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater Standard

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-102 5/4/1998	UMW-102 8/5/1998	UMW-102 11/10/1998	UMW-102 3/22/1999	UMW-102 6/16/1999	UMW-102 9/14/1999	UMW-102 12/9/1999	UMW-102 3/2/2000	UMW-102 6/15/2000	UMW-102 9/26/2000	UMW-102 12/27/2000	UMW-102 3/8/2001	UMW-102 6/25/2001	UMW-102 9/6/2001
BTEX Constituents																
Benzene	(ug/l)	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	(ug/l)	1000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	700	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PNA Constituents																
Acenaphthene	(ug/l)	420	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	(ug/l)	2100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	(ug/l)	140	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<6.0	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Metal Constituents																
Arsenic	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barium	(mg/l)	2.0	-----	-----	-----	-----	-----	-----	0.075	-----	-----	-----	-----	-----	-----	-----
Cadmium	(mg/l)	0.005	-----	-----	-----	-----	-----	-----	<0.002	-----	-----	-----	-----	-----	-----	-----
Chromium	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	<0.030	-----	-----	-----	-----	-----	-----	-----
Copper	(mg/l)	0.65	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Iron	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	(mg/l)	0.0075	-----	-----	-----	-----	-----	-----	<0.0002	-----	-----	-----	-----	-----	-----	-----
Manganese	(mg/l)	0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	(mg/l)	0.002	-----	-----	-----	-----	-----	-----	<0.0002	-----	-----	-----	-----	-----	-----	-----
Nickel	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	<0.10	-----	-----	-----	-----	-----	-----	-----
Zinc	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater S

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-102 12/6/2001	UMW-102 3/6/2002	UMW-102 6/4/2002	UMW-102 9/4/2002	UMW-102 12/5/2002	UMW-102 3/12/2003	UMW-102 6/12/2003	UMW-102 9/23/2003	UMW-102 12/2/2003	UMW-102 3/2/2004	UMW-102 5/25/2004	UMW-102 12/6/2004	UMW-102 7/26/2004	UMW-103 12/16/1990	UMW-103 1/24/1992	UMW-103 1/7/2003	UMW-103 2/13/1996
BTEX Constituents																			
Benzene	(ug/l)	5	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**120**	**88**	**130**	**12**
Ethylbenzene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0	5.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	440	250	290	151
Toluene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	22	13	17	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0	4.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	400	-----	150	87.7
PNA Constituents																			
Acenaphthene	(ug/l)	420	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<3.00	-----	-----	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<1.50	-----	-----	-----	-----
Anthracene	(ug/l)	2100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.09	-----	-----	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.12	-----	-----	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.45	-----	-----	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.18	-----	-----	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.90	-----	-----	-----	-----
Fluorene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----
Naphthalene	(ug/l)	140	<10	<10	<10	<10	<10	18.1	<10	<10	<10	<10	<10	<10	<3.00	-----	-----	-----	-----
Phenanthrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.60	-----	-----	-----	-----
Pyrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----
Metal Constituents																			
Arsenic	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.019	-----	-----	-----
Barium	(mg/l)	2.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.36	0.22	0.17	-----
Cadmium	(mg/l)	0.005	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.06	-----	-----	-----
Copper	(mg/l)	0.65	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.067**	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.35**	**0.27**	**0.39**	-----
Iron	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	**58**	1.6	3.1	-----
Lead	(mg/l)	0.0075	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.054**	-----	-----	-----
Manganese	(mg/l)	0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	**1.9**	**1.6**	**1.3**	-----
Mercury	(mg/l)	0.002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nickel	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.08	-----	-----	-----
Silver	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.25	0.035	-----	-----

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater S

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-103 5/8/1996	UMW-103 8/6/1996	UMW-104 12/16/1990	UMW-104 1/6/1993	UMW-104 2/13/1996	UMW-104 12/9/1999	UMW-104 7/26/2004	UMW-105 12/16/1990	UMW-105 1/21/1992	UMW-105 1/5/1993	UMW-105 2/13/1996	UMW-105 12/9/1999	UMW-105 7/26/2004	UMW-106 12/16/1990	UMW-106 1/21/1992	UMW-106 1/8/1993	UMW-106 2/12/1996	UMW-106 12/8/1999	UMW-106 7/26/2004	UMW-107 12/16/1990	UMW-107 1/23/1992
BTEX Constituents																							
Benzene	(ug/l)	5	**26.4**	**82.2**	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	**36000**	**4800**
Ethylbenzene	(ug/l)	1000	173	550	<5.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<5.0	<1.0	<2.0	<5.0	56	60
Toluene	(ug/l)	700	5.7	<50.0	<5.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<5.0	<1.0	<2.0	<5.0	<5.0	<5.0	<5.0	<1.0	<2.0	<5.0	27	30
Xylene (total)	(ug/l)	10000	85.2	410	<5.0	<5.0	-----	<5.0	<5.0	<5.0	-----	<5.0	-----	<5.0	<5.0	<5.0	-----	<5.0	-----	<5.0	<5.0	80	-----
PNA Constituents																							
Acenaphthene	(ug/l)	420	-----	-----	-----	-----	-----	-----	<3.00	-----	-----	-----	-----	-----	<3.00	-----	-----	-----	-----	-----	<3.00	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	-----	-----	-----	-----	<1.50	-----	-----	-----	-----	-----	<1.50	-----	-----	-----	-----	-----	<1.50	-----	-----
Anthracene	(ug/l)	2100	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	-----	-----	-----	-----	<0.09	-----	-----	-----	-----	-----	<0.09	-----	-----	-----	-----	-----	<0.09	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	-----	-----	-----	-----	<0.12	-----	-----	-----	-----	-----	<0.12	-----	-----	-----	-----	-----	<0.12	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----	-----	<0.15	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----	-----	<0.15	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	-----	-----	-----	-----	<0.45	-----	-----	-----	-----	-----	<0.45	-----	-----	-----	-----	-----	<0.45	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	-----	-----	-----	-----	<0.18	-----	-----	-----	-----	-----	<0.18	-----	-----	-----	-----	-----	<0.18	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	-----	-----	-----	-----	<0.90	-----	-----	-----	-----	-----	<0.90	-----	-----	-----	-----	-----	<0.90	-----	-----
Fluorene	(ug/l)	280	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----
Naphthalene	(ug/l)	140	-----	-----	-----	-----	-----	-----	<3.00	-----	-----	-----	-----	-----	<3.00	-----	-----	-----	-----	-----	<3.00	-----	-----
Phenanthrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	<0.60	-----	-----	-----	-----	-----	<0.60	-----	-----	-----	-----	-----	<0.60	-----	-----
Pyrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	<0.30	-----	-----
Metal Constituents																							
Arsenic	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barium	(mg/l)	2.0	-----	-----	0.088	0.17	-----	0.142	-----	0.12	0.059	0.072	-----	0.052	-----	0.14	0.06	0.063	-----	0.051	-----	0.27	0.32
Cadmium	(mg/l)	0.005	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	<.002	-----	-----	-----
Chromium	(mg/l)	0.1	-----	-----	-----	-----	-----	<.030	-----	-----	-----	-----	-----	<.030	-----	-----	-----	-----	-----	<.030	-----	-----	-----
Copper	(mg/l)	0.65	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	-----	0.03	0.01	-----	-----	-----	0.1	0.06	0.06	-----	-----	-----	**0.22**	**0.29**	0.11	-----	-----	-----	**0.97**	**1.1**
Iron	(mg/l)	5.0	-----	-----	0.37	0.027	-----	-----	-----	0.63	0.054	0.028	-----	-----	-----	0.64	0.15	0.09	-----	-----	-----	2.1	0.45
Lead	(mg/l)	0.0075	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	<.002	-----	-----	-----
Manganese	(mg/l)	0.15	-----	-----	**0.37**	**0.19**	-----	-----	-----	0.12	-----	0.028	-----	-----	-----	0.067	**0.36**	0.037	-----	-----	-----	**0.19**	**0.66**
Mercury	(mg/l)	0.002	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	<.0002	-----	0.00097	-----	-----	-----	<.0002	-----	0.00052	-----
Nickel	(mg/l)	0.1	-----	-----	0.013	-----	-----	-----	-----	0.014	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.013	-----
Silver	(mg/l)	0.05	-----	-----	-----	-----	-----	<.010	-----	-----	-----	-----	-----	<.010	-----	-----	-----	-----	-----	<.010	-----	-----	-----
Zinc	(mg/l)	5.0	-----	-----	0.073	0.082	-----	-----	-----	0.087	0.045	-----	-----	-----	-----	0.069	0.09	-----	-----	-----	-----	0.087	0.042

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater S

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-107 2/14/1996	UMW-107 5/8/1996	UMW-107 8/6/1996	UMW-107 11/4/1996	UMW-107 2/4/1997	UMW-107 5/7/1997	UMW-107 8/5/1997	UMW-107 11/4/1997	UMW-107 2/2/1998	UMW-107 5/4/1998	UMW-107 8/6/1998	UMW-107 11/10/1998	UMW-107 3/25/1999	UMW-107 6/16/1999	UMW-107 9/14/1999	UMW-107 12/8/1999	UMW-107 3/2/2000	UMW-107 6/15/2000	UMW-107 9/26/2000	UMW-107 12/27/2000	UMW-107 3/8/2001
BTEX Constituents																							
Benzene	(ug/l)	5	**3860**	**3150**	**1630**	**1710**	**2820**	**2050**	**2460**	**3430**	**2910**	**2130**	**2260**	**4110**	**2320**	**1220**	**1480**	**3160**	**1810**	**652**	**4840**	**2040**	**329**
Ethylbenzene	(ug/l)	1000	74.6	61.4	<50.0	54.6	79.5	67.3	79.8	131	106	72.8	60.7	146	66.2	<100	47	136	80.8	115	236	89.5	<125
Toluene	(ug/l)	700	16.2	12.9	<50.0	11	<125	14.2	15.4	22.7	19.6	<50.0	<50.0	<50.0	<50.0	<100	<20.0	<50.0	<20.0	15.4	<125	11.5	<125
Xylene (total)	(ug/l)	10000	114	93.8	53.5	98.3	114	114	111	193	160	164	120	220	134	144	77.2	209	87.1	178	370	166	68
PNA Constituents																							
Acenaphthene	(ug/l)	420	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	(ug/l)	2100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	(ug/l)	140	-----	-----	-----	-----	75.3	90.6	92	130	75.5	85	<5.0	**239**	<250	30	**265**	**164**	**152**	**212**	**702**	**207**	38.1
Phenanthrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Metal Constituents																							
Arsenic	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barium	(mg/l)	2.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.214	-----	-----	-----	-----	-----
Cadmium	(mg/l)	0.005	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----
Chromium	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.030	-----	-----	-----	-----	-----
Copper	(mg/l)	0.65	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Iron	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	(mg/l)	0.0075	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----
Manganese	(mg/l)	0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	(mg/l)	0.002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.0002	-----	-----	-----	-----	-----
Nickel	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.010	-----	-----	-----	-----	-----
Zinc	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater S

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-107 6/25/2001	UMW-107 9/6/2001	UMW-107 12/6/2001	UMW-107 3/6/2002	UMW-107 6/4/2002	UMW-107 9/4/2002	UMW-107 12/5/2002	UMW-107 3/12/2003	UMW-107 6/12/2003	UMW-107 9/23/2003	UMW-107 12/3/2003	UMW-107 3/2/2004	UMW-107 5/25/2004	UMW-107 7/26/2004	UMW-107 12/7/2004	UMW-108 12/17/1990	UMW-108 1/21/1992	UMW-108 1/7/1993	UMW-108 2/12/1996	UMW-108 5/7/1996	UMW-108 8/6/1996
BTEX Constituents																							
Benzene	(ug/l)	5	**1170**	**3440**	**2110**	**800**	**704**	**2290**	**2190**	**2000**	**678**	**356**	**452**	**986**	**694**	760	416	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	(ug/l)	1000	58.9	127	70	52.9	41.9	110	98	150	34	<125	<125	<50	18	<250	<125	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	700	7.6	<125	<125	5.4	5	<200	<200	<500	<125	<125	<125	<50	<50	<250	<125	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	134	173	120	119	103	170	150	290	74	75	62	57	59.4	77	49	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PNA Constituents																							
Acenaphthene	(ug/l)	420	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<3.00	-----	-----	-----	-----	-----	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<1.50	-----	-----	-----	-----	-----	-----	-----
Anthracene	(ug/l)	2100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.09	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.12	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----	-----	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.45	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.18	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.90	-----	-----	-----	-----	-----	-----	-----
Fluorene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----
Naphthalene	(ug/l)	140	70.4	**172**	**167**	35.2	86.6	123	**181**	**174**	80.1	35.9	39.3	83.7	52.4	87.7	59.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Phenanthrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.60	-----	-----	-----	-----	-----	-----	-----
Pyrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----
Metal Constituents																							
Arsenic	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barium	(mg/l)	2.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.23	0.26	-----	-----	-----	-----
Cadmium	(mg/l)	0.005	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	(mg/l)	0.65	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.08	0.07	-----	-----	-----	-----
Iron	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	**7.2**	0.054	-----	-----	-----	-----
Lead	(mg/l)	0.0075	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Manganese	(mg/l)	0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.89**	**1.6**	-----	-----	-----	-----
Mercury	(mg/l)	0.002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nickel	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.021	-----	-----	-----	-----	-----
Silver	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.13	0.046	-----	-----	-----	-----
																			-----	-----	-----	-----	-----

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater S

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-108 11/4/1996	UMW-108 2/3/1997	UMW-108 5/7/1997	UMW-108 8/4/1997	UMW-108 11/3/1997	UMW-108 3/25/1999	UMW-108 6/16/1999	UMW-108 9/14/1999	UMW-108 12/9/1999	UMW-108 3/2/2000	UMW-108 9/26/2000	UMW-108 12/27/2000	UMW-108 6/15/2000	UMW-108 3/8/2001	UMW-108 6/25/2001	UMW-108 9/6/2001	UMW-108 12/6/2001	UMW-108 3/6/2002	UMW-108 6/4/2002	UMW-108 9/4/2002	UMW-108 12/5/2002
BTEX Constituents																							
Benzene	(ug/l)	5	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PNA Constituents																							
Acenaphthene	(ug/l)	420	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	(ug/l)	2100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	(ug/l)	140	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<6.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenanthrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
				-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Metal Constituents				-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Arsenic	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barium	(mg/l)	2.0	-----	-----	-----	-----	-----	-----	-----	-----	0.203	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cadmium	(mg/l)	0.005	-----	-----	-----	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	<.030	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	(mg/l)	0.65	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Iron	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	(mg/l)	0.0075	-----	-----	-----	-----	-----	-----	-----	-----	0.002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Manganese	(mg/l)	0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	(mg/l)	0.002	-----	-----	-----	-----	-----	-----	-----	-----	<.0002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nickel	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	<.010	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
			-----																				

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater S

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-108 3/12/2003	UMW-108 6/12/2003	UMW-108 9/23/2003	UMW-108 12/2/2003	UMW-108 3/2/2004	UMW-108 5/25/2004	UMW-108 12/6/2004	UMW-108 7/26/2004	UMW-109 1/21/1992	UMW-109 1/5/1993	UMW-109 2/14/1996	UMW-109 3/25/1999	UMW-109 6/16/1999	UMW-109 9/14/1999	UMW-109 12/9/1999	UMW-109 3/2/2000	UMW-109 6/15/2000	UMW-109 7/26/2004	UMW-110 12/16/1990	UMW-110 1/25/1992	UMW-110 1/6/1993
BTEX Constituents																							
Benzene	(ug/l)	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**83**	**120**	**53**
Ethylbenzene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	150	210	210
Toluene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	8	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	120	-----	180
PNA Constituents																							
Acenaphthene	(ug/l)	420	-----	-----	-----	-----	-----	-----	-----	<3.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	<3.00	-----	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	<1.50	-----	-----	-----	-----	-----	-----	-----	-----	-----	<1.50	-----	-----	-----
Anthracene	(ug/l)	2100	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	-----	-----	-----	-----	-----	<0.09	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.09	-----	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	-----	-----	-----	-----	-----	<0.12	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.12	-----	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.15	-----	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	-----	-----	-----	-----	-----	<0.45	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.45	-----	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	-----	-----	-----	-----	-----	<0.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.18	-----	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	<0.90	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.90	-----	-----	-----
Fluorene	(ug/l)	280	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----
Naphthalene	(ug/l)	140	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<3.00	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<6.0	<5.0	<5.0	<3.00	-----	-----	-----
Phenanthrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	<0.60	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.60	-----	-----	-----
Pyrene	(ug/l)	210	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	<0.30	-----	-----	-----
			-----	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----	-----	-----	-----	-----		-----	-----	-----
Metal Constituents			-----	-----	-----	-----	-----	-----	-----		-----	-----	-----	-----	-----	-----	-----	-----	-----		-----	-----	-----
Arsenic	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barium	(mg/l)	2.0	-----	-----	-----	-----	-----	-----	-----	-----	0.13	0.16	-----	-----	-----	-----	0.141	-----	-----	-----	0.18	0.12	0.12
Cadmium	(mg/l)	0.005	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	-----
Chromium	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.03	-----	-----	-----	-----	-----	-----
Copper	(mg/l)	0.65	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	0.16	0.05	-----	-----	-----	-----	-----	-----	-----	-----	**0.86**	**0.62**	**1**
Iron	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	0.11	0.035	-----	-----	-----	-----	-----	-----	-----	-----	1.5	0.77	1.5
Lead	(mg/l)	0.0075	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	-----
Manganese	(mg/l)	0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.019	-----	-----	-----	-----	-----	-----	-----	-----	**3.7**	**4.4**	**4.5**
Mercury	(mg/l)	0.002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.0002	-----	-----	-----	-----	-----	-----
Nickel	(mg/l)	0.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	(mg/l)	0.05	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	<.010	-----	-----	-----	-----	-----	-----
Zinc	(mg/l)	5.0	-----	-----	-----	-----	-----	-----	-----	-----	0.096	0.028	-----	-----	-----	-----	-----	-----	-----	-----	0.093	0.05	0.021

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater S

TABLE 2-8
GROUNDWATER RESULTS BTEX, PAHs and METALS
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-110 2/15/1996	UMW-110 12/9/1999	UMW-110 7/26/2004	UMW-111 12/17/1990	UMW-111 1/21/1992	UMW-111 1/5/1993	UMW-111 2/14/1996	UMW-111A 9/14/1999	UMW-111A 12/9/1999	UMW-111A 6/15/2000	UMW-111A 9/26/2000	UMW-111A 12/27/2000	UMW-111A 3/8/2001	UMW-111A 6/25/2001	UMW-111A 9/6/2001	UMW-111A 12/6/2001	UMW-111A 3/6/2002	UMW-111A 6/4/2002	UMW-111A 9/4/2002
BTEX Constituents																					
Benzene	(ug/l)	5	27.1	13.4	15.6	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	(ug/l)	1000	50.7	71.2	2.3	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	700	2.5	2.2	67.5	7	<5.0	<5.0	<1.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	-----	50.9	37.3	<5.0	-----	<5.0	-----	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PNA Constituents																					
Acenaphthene	(ug/l)	420	-----	-----	87.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthylene	(ug/l)	210	-----	-----	92.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	(ug/l)	2100	-----	-----	15.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	(ug/l)	1.3	-----	-----	0.33	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	(ug/l)	0.2	-----	-----	<0.12	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	(ug/l)	0.18	-----	-----	<0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	(ug/l)	---	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	(ug/l)	0.17	-----	-----	<0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	(ug/l)	1.5	-----	-----	<0.45	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	(ug/l)	0.3	-----	-----	<0.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	(ug/l)	280	-----	-----	12.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	(ug/l)	280	-----	-----	7.66	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	-----	-----	<0.30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	(ug/l)	140	-----	-----	24.6	-----	<5.0	<5.0	<1.0	<5.0	<6.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenanthrene	(ug/l)	210	-----	-----	26.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	(ug/l)	210	-----	-----	5.25	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
			-----	-----								-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Metal Constituents			-----	-----								-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Arsenic	(mg/l)	0.05	-----	-----	-----	0.015	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barium	(mg/l)	2.0	-----	0.106	-----	0.36	0.099	0.14	-----	-----	0.116	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cadmium	(mg/l)	0.005	-----	<.002	-----	-----	-----	-----	-----	-----	<.002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	(mg/l)	0.1	-----	<.030	-----	**0.11**	-----	-----	-----	-----	<.030	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	(mg/l)	0.65	-----	-----	-----	0.068	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cyanide	(mg/l)	0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Iron	(mg/l)	5.0	-----	-----	-----	**93**	0.023	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	(mg/l)	0.0075	-----	<.002	-----	**0.083**	-----	-----	-----	-----	0.005	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Manganese	(mg/l)	0.15	-----	-----	-----	**1.7**	0.046	0.06	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	(mg/l)	0.002	-----	<.0002	-----	**0.0022**	-----	-----	-----	-----	<.0002	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nickel	(mg/l)	0.1	-----	-----	-----	**0.12**	0.017	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	(mg/l)	0.05	-----	<.010	-----	-----	-----	-----	-----	-----	<.010	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	(mg/l)	5.0	-----	-----	-----	0.28	0.059	0.036	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater S

TABLE 2-9
GROUNDWATER BTEX AND PAH RESULTS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Groundwater ROs (Class I)	UNITS	UMW-102 7/26/2004	UMW-102 6/14/2007	UMW-102 9/21/2007	UMW-104 7/26/2004	UMW-105 7/26/2004	UMW-106 7/26/2004	UMW-107 3/2/2004	UMW-107 5/25/2004	UMW-107 7/26/2004	UMW-107B 7/26/2004	UMW-107 12/7/2004	UMW-107 3/15/2005	UMW-107 6/9/2005	UMW-107 9/27/2005	UMW-107 12/27/2005	UMW-107B 12/27/2005
Benzene	5	(ug/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	986	694	760	786	416	589	549	344	859	998
Ethylbenzene	700	(ug/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50.0	18	<250	<250	<125	36	27.8	17.1	46.5	45.8
Toluene	1,000	(ug/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50.0	<50	<250	<250	<125	4	<25.0	2.6	5.4	5.7
Xylene (total)	10,000	(ug/L)	<5.0	<5.0	<5.0	1.4	<5.0	<5.0	57	59.4	77	52	49	64.1	49.2	32.1	54.4	54.6
Acenaphthene	420	(ug/L)	<3.00	---	---	<3.00	<3.00	<3.00	<5.0	<5.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Acenaphthylene	210	(ug/L)	<1.50	---	---	<1.50	<1.50	<1.50	47	<5.0	<1.50	<1.50	<1.50	<7.50	44.5	<1.50	<1.50	<1.50
Anthracene	2100	(ug/L)	<0.30	---	---	<0.30	<0.30	<0.30	<5.0	<5.0	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)anthracene	0.13	(ug/L)	<0.09	---	---	<0.09	<0.09	<0.09	<0.10	<0.10	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Benzo(a)pyrene	0.20	(ug/L)	<0.12	---	---	<0.12	<0.12	<0.12	<0.20	<0.20	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Benzo(b)fluoranthene	0.18	(ug/L)	<0.15	---	---	<0.15	<0.15	<0.15	<0.18	<0.18	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Benzo(ghi)perylene	----	(ug/L)	<0.30	---	---	<0.30	<0.30	<0.30	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(k)fluoranthene	0.17	(ug/L)	<0.15	---	---	<0.15	<0.15	<0.15	<0.17	<0.17	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Chrysene	1.5	(ug/L)	<0.45	---	---	<0.45	<0.45	<0.45	<0.80	<0.80	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Dibenzo(a,h)anthracene	0.30	(ug/L)	<0.18	---	---	<0.18	<0.18	<0.18	<0.30	<0.30	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Fluoranthene	280	(ug/L)	<0.90	---	---	<0.90	<0.90	<0.90	<2.0	<2.0	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90
Fluorene	280	(ug/L)	<0.30	---	---	<0.30	<0.30	<0.30	<1.0	<1.0	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	0.43	(ug/L)	<0.30	---	---	<0.30	<0.30	<0.30	<0.40	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	140	(ug/L)	<3.00	---	---	<3.00	<3.00	<3.00	83.7	52.4	87.7	147	59.7	53.2	59.4	58	130	140
Phenanthrene	210	(ug/L)	<0.60	---	---	<0.60	<0.60	<0.60	<5.0	<5.0	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Pyrene	210	(ug/L)	<0.30	---	---	<0.30	<0.30	<0.30	<2.0	<2.0	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater Standard

TABLE 2-9
GROUNDWATER BTEX AND PAH RESULTS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Groundwater ROs (Class I)	UNITS	UMW-107 3/30/2006	UMW-107 6/22/2006	UMW-107 9/19/2006	UMW-107 12/13/2006	UMW-107 6/14/2007	UMW-107 9/21/2007	UMW-108 7/26/2004	UMW-108B 7/26/2004	UMW-108 6/14/2007	UMW-108 9/21/2007	UMW-109 7/26/2004	UMW-110 7/26/2004	UMW-111 7/26/2004	UMW-111 6/14/2007	UMW-111 9/21/2007
Benzene	5	(ug/L)	231	289	1280	812	798	1020	<2.0	<2.0	<2.0	<2.0	<2.0	15.6	<2.0	<2.0	<2.0
Ethylbenzene	700	(ug/L)	18.6	18.2	69.1	44.1	32.0	55.7	<5.0	<5.0	<5.0	<5.0	<5.0	67.5	<5.0	<5.0	<5.0
Toluene	1,000	(ug/L)	<5.0	2.4	11.0	7.1	<50	<50	<5.0	<5.0	<5.0	<5.0	<5.0	2.3	<5.0	<5.0	<5.0
Xylene (total)	10,000	(ug/L)	28.6	30.7	81.2	55.2	43.0	71.5	<5.0	<5.0	<5.0	<5.0	<5.0	37.3	<5.0	<5.0	<5.0
Acenaphthene	420	(ug/L)	<3.00	<3.00	<3.00	<0.10	<1.0	<5.0	<3.00	<3.00	---	---	<3.00	87.6	<3.00	---	---
Acenaphthylene	210	(ug/L)	<1.50	<1.50	5.38	0.2	<1.0	0.19	<1.50	<1.50	---	---	<1.50	92.6	<1.50	---	---
Anthracene	2100	(ug/L)	<0.30	<0.30	<0.30	0.14	<1.0	0.13	<0.30	<0.30	---	---	<0.30	15.1	<0.30	---	---
Benzo(a)anthracene	0.13	(ug/L)	<0.09	<0.09	<0.09	<0.10	<0.10	<0.13	<0.09	0.19	---	---	<0.09	0.33	<0.09	---	---
Benzo(a)pyrene	0.20	(ug/L)	<0.12	<0.12	<0.12	<0.10	<0.10	<0.20	<0.12	0.29	---	---	<0.12	<0.12	<0.12	---	---
Benzo(b)fluoranthene	0.18	(ug/L)	<0.15	<0.15	<0.15	<0.10	<0.10	<0.18	<0.15	<0.15	---	---	<0.15	<0.15	<0.15	---	---
Benzo(ghi)perylene	----	(ug/L)	<0.30	<0.30	<0.30	<0.10	1.1	<0.50	<0.30	<0.30	---	---	<0.30	<0.30	<0.30	---	---
Benzo(k)fluoranthene	0.17	(ug/L)	<0.15	<0.15	<0.15	<0.10	<1.0	<0.17	<0.15	<0.15	---	---	<0.15	<0.15	<0.15	---	---
Chrysene	1.5	(ug/L)	<0.45	<0.45	<0.45	<0.10	<1.0	<0.15	<0.45	<0.45	---	---	<0.45	<0.45	<0.45	---	---
Dibenzo(a,h)anthracene	0.30	(ug/L)	<0.18	<0.18	<0.18	<0.10	<1.0	<0.30	<0.18	<0.18	---	---	<0.18	<0.18	<0.18	---	---
Fluoranthene	280	(ug/L)	<0.90	<0.90	<0.90	<0.10	<1.0	<2.0	<0.90	<0.90	---	---	<0.90	12.1	<0.90	---	---
Fluorene	280	(ug/L)	<0.30	<0.30	<0.30	<0.10	<1.0	<1.0	<0.30	<0.30	---	---	<0.30	7.66	<0.30	---	---
Indeno(1,2,3-cd)pyrene	0.43	(ug/L)	<0.30	<0.30	<0.30	<0.10	<1.0	<0.43	<0.30	<0.30	---	---	<0.30	<0.30	<0.30	---	---
Naphthalene	140	(ug/L)	57.8	-----	180	47.7	170	194	<3.00	<3.00	---	---	<3.00	24.6	<3.00	---	---
Phenanthrene	210	(ug/L)	<0.60	<0.60	<0.60	<0.10	<1.0	<0.10	<0.60	<0.60	---	---	<0.60	26.7	<0.60	---	---
Pyrene	210	(ug/L)	<0.30	<0.30	<0.30	<0.10	<1.0	<2.0	<0.30	<0.30	---	---	<0.30	5.25	<0.30	---	---

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater Standard

TABLE 2-9
GROUNDWATER BTEX AND PAH RESULTS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Groundwater ROs (Class I)	UNITS	UMW-112 7/26/2004	UMW-112 6/14/2007	UMW-112 9/21/2007	UMW-113 7/26/2004	UMW-114 3/2/2004	UMW-114 5/25/2004	UMW-114 7/26/2004	UMW-114 12/7/2004	UMW-114 3/15/2005	UMW-114B 3/15/2005	UMW-114 6/9/2005	UMW-114 9/27/2005	UMW-114 12/27/2005	UMW-114 3/30/2006	UMW-114 6/22/2006	UMW-114 9/19/2006
Benzene	5	(ug/L)	<2.0	<2.0	<2.0	5.7	754	760	628	796	736	726	867	1130	939	875	936	938
Ethylbenzene	700	(ug/L)	<5.0	<5.0	<5.0	1.0	1040	1230	868	1130	1250	1240	1260	1370	1150	1220	1140	1220
Toluene	1,000	(ug/L)	<5.0	<5.0	<5.0	<5.0	<250	153	120	164	164	163	152	190	133	123	131	150
Xylene (total)	10,000	(ug/L)	<5.0	<5.0	<5.0	4.8	481	861	425	848	899	920	932	1010	891	958	1020	924
Acenaphthene	420	(ug/L)	<3.00	---	---	33.9	260	167	214	43.6	115	101	222	208	236	99.1	159	111
Acenaphthylene	210	(ug/L)	<1.50	---	---	70.7	840	737	552	432	<1.50	<1.50	<7.5	<1.50	<150	<1.50	868	<15.0
Anthracene	2100	(ug/L)	<0.30	---	---	<0.30	<50.6	<5.0	1.04	0.62	<0.30	<0.30	<0.30	0.82	<0.30	<0.30	1.8	<0.30
Benzo(a)anthracene	0.13	(ug/L)	<0.09	---	---	<0.09	0.77	0.33	<0.09	0.17	<0.09	0.2	<0.09	<0.09	1.11	0.41	0.91	0.2
Benzo(a)pyrene	0.20	(ug/L)	<0.12	---	---	<0.12	0.68	0.34	<0.12	<0.12	<0.12	0.14	<0.12	<0.12	1.07	0.27	0.97	<0.12
Benzo(b)fluoranthene	0.18	(ug/L)	<0.15	---	---	<0.15	<0.18	0.17	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.49	<0.15	0.3	<0.15
Benzo(ghi)perylene	----	(ug/L)	<0.30	---	---	<0.30	<0.51	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.44	<0.30	0.68	<0.30
Benzo(k)fluoranthene	0.17	(ug/L)	<0.15	---	---	<0.15	<0.17	<0.17	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Chrysene	1.5	(ug/L)	<0.45	---	---	<0.45	<0.81	<0.80	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	1.22	<0.45	0.93	<0.45
Dibenzo(a,h)anthracene	0.30	(ug/L)	<0.18	---	---	<0.18	<0.30	<0.30	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Fluoranthene	280	(ug/L)	<0.90	---	---	<0.90	<20.2	<2.0	0.99	1.22	<0.90	0.94	1.07	1.09	4.66	1.81	3.38	<0.90
Fluorene	280	(ug/L)	<0.30	---	---	2.36	43.1	41.5	20.6	29.9	62.8	48.4	64.1	44.4	68.6	49.4	42.8	<0.30
Indeno(1,2,3-cd)pyrene	0.43	(ug/L)	<0.30	---	---	<0.30	<0.40	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.31	<0.30	0.3	<0.30
Naphthalene	140	(ug/L)	<3.00	---	---	580	4480	3660	3650	3510	5580	4550	5120	11500	5980	6000	-----	7880
Phenanthrene	210	(ug/L)	<0.60	---	---	5990	<50.6	8.98	7.48	9.68	11.6	11	10.2	9.87	12.8	11.3	14	11.1
Pyrene	210	(ug/L)	<0.30	---	---	6020	<20.2	<2.0	0.64	0.69	0.4	0.66	0.65	0.4	2.29	1.36	2.74	0.55

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater Standard

TABLE 2-9
GROUNDWATER BTEX AND PAH RESULTS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Groundwater ROs (Class I)	UNITS	UMW-114 12/13/2006	UMW-114B 12/13/2006	UMW-114 6/14/2007	UMW-114 9/21/2007	UMW-115 7/26/2004	UMW-115 6/14/2007	UMW-115 9/21/2007	UMW-116 7/26/2004	UMW-116 6/14/2007	UMW-116 6/14/2007	UMW-116 9/21/2007
Benzene	5	(ug/L)	1080	1130	1150	1120	12.9	9	12.3	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	700	(ug/L)	1110	1170	1160	1060	1.2	<5.0	1.8	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	(ug/L)	170	150	170	130	<5.0	<5.0	1.2	<5.0	<5.0	<5.0	<5.0
Xylene (total)	10,000	(ug/L)	1020	984	963	861	<5.0	<5.0	1.3	<5.0	<5.0	<5.0	<5.0
Acenaphthene	420	(ug/L)	122	140	85.9	86	13.5	-----	-----	<3.00	-----	-----	-----
Acenaphthylene	210	(ug/L)	20.9	22	21.3	19.7	26.4	-----	-----	<1.50	-----	-----	-----
Anthracene	2100	(ug/L)	1.4	1.17	1.6	1.3	<0.30	-----	-----	<0.30	-----	-----	-----
Benzo(a)anthracene	0.13	(ug/L)	0.23	0.16	<0.50	0.25	<0.09	-----	-----	<0.09	-----	-----	-----
Benzo(a)pyrene	0.20	(ug/L)	0.11	<0.10	<0.50	0.13	<0.12	-----	-----	<0.12	-----	-----	-----
Benzo(b)fluoranthene	0.18	(ug/L)	<0.10	<0.10	<0.50	<0.18	<0.15	-----	-----	<0.15	-----	-----	-----
Benzo(ghi)perylene	----	(ug/L)	<0.10	<0.10	<0.50	<0.50	<0.30	-----	-----	<0.30	-----	-----	-----
Benzo(k)fluoranthene	0.17	(ug/L)	<0.10	<0.10	<0.50	<0.17	<0.15	-----	-----	<0.15	-----	-----	-----
Chrysene	1.5	(ug/L)	0.12	<0.10	<0.50	0.17	<0.45	-----	-----	<0.45	-----	-----	-----
Dibenzo(a,h)anthracene	0.30	(ug/L)	<0.140	<0.10	<0.50	<0.30	<0.18	-----	-----	<0.18	-----	-----	-----
Fluoranthene	280	(ug/L)	0.76	0.56	0.7	0.85	<0.90	-----	-----	<0.90	-----	-----	-----
Fluorene	280	(ug/L)	15.6	17.4	18.1	17.8	8.46	-----	-----	<0.30	-----	-----	-----
Indeno(1,2,3-cd)pyrene	0.43	(ug/L)	<0.10	<0.10	<0.50	<0.43	<0.30	-----	-----	<0.30	-----	-----	-----
Naphthalene	140	(ug/L)	5260	5980	6440	5560	<3.00	-----	-----	<3.00	-----	-----	-----
Phenanthrene	210	(ug/L)	5.51	5.84	6	6.18	<0.60	-----	-----	<0.60	-----	-----	-----
Pyrene	210	(ug/L)	1.03	0.83	0.95	1.4	<0.30	-----	-----	<0.30	-----	-----	-----

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater Standard

TABLE 2-10
QUARTERLY GROUNDWATER SAMPLE ANALYTICAL RESULTS
BTEX and NAPHTHALENE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Monitoring Well	Sampling Date		Concentration ug/L Benzene	Ethylbenzene	Toluene	Xylenes (Total)		Total BTEX	Naphthalene	
Tier 1 Remedial Objective			5	700	1,000	10,000			140	
UMW-102	02/03/97		ND(5)	ND(5)	ND(5)	ND(5)		0.0	ND(5)	
	05/07/97		ND(5)	ND(5)	ND(5)	ND(5)		0.0	ND(5)	
	08/04/97		ND(5)	ND(5)	ND(5)	ND(5)		0.0	ND(5)	
	11/03/97		ND(5)	ND(5)	ND(5)	ND(5)		0.0	ND(5)	
	02/02/98		ND(5)	ND(5)	ND(5)	ND(5)		0.0	ND(5)	
	05/04/98		ND(2)	ND(2)	ND(2)	ND(2)		0.0	ND(8.7)	*
	08/05/98		ND(2)	ND(2)	ND(2)	ND(2)		0.0	ND(5)	
	08/05/98	ls	ND(5)	ND(5)	ND(5)	ND(5)		0.0	ND(5)	
	11/10/98		ND(2)	ND(2)	ND(2)	ND(2)		0.0	ND(5)	
	03/25/99		ND(2)	ND(2)	ND(2)	ND(2)		0.0	ND(10)	
	06/16/99		ND(2)	ND(2)	ND(2)	ND(2)		0.0	ND(5)	
	09/14/99		ND(2)	ND(2)	ND(2)	ND(2)		0.0	ND(5)	
	12/09/99		ND(2)	ND(2)	ND(2)	ND(5)		0.0	ND(6)	
	03/02/00		ND(2)	ND(2)	ND(2)	ND(4)		0.0	ND(5)	
	06/15/00		ND(2)	ND(2)	ND(5)	ND(5)		0.0	ND(10)	
	09/26/00		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	12/27/00		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	03/08/01		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	06/25/01		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	09/06/01		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	12/06/01		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	03/06/02		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	06/04/02		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	09/04/02		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	12/05/02		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	03/12/03		2.3	5.9	ND(5)	4.1	J	12.3	18.1	
	06/12/03		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	03/02/04		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	05/25/04		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	07/26/04		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(3)	
	12/06/04		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	03/15/05		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	06/09/05		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	09/27/05		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	12/27/05		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	03/30/06		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	06/22/06		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	09/19/06		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	12/13/06		ND(2)	ND(5)	ND(5)	1.1		1.1	ND(10)	
	03/26/07		ND(2)	ND(5)	ND(5)	ND(5)		0.0	0.00013	
	06/14/07		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
	09/21/07		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(10)	
UMW-104	07/26/04		ND(2)	ND(5)	ND(5)	1.4		1.40	ND(3)	
	03/27/07		ND(2)	ND(5)	ND(5)	ND(5)		0.0	ND(3)	
UMW-105	07/26/04		ND(2)	ND(5)	ND(5)	ND(5)		0.00	ND(3)	
	03/27/07		ND(2)	ND(5)	ND(5)	ND(5)		0.00	ND(3)	
UMW-106	07/26/04		ND(2)	ND(5)	ND(5)	ND(5)		0.00	ND(3)	
	03/26/07		ND(2)	ND(5)	ND(5)	ND(5)		0.00	ND(3)	

d	Duplicate sample for QA/QC.
J	Estimated concentration below method detection limit.
ls	Laboratory split to second laboratory for quality assurance and quality control.
ND	Not Detected (Detection Limit).
- -	Not Applicable.
*	Suspected laboratory error; carryover in capillary column from other samples.
NA	Not analyzed
**	3,210/5,810 are analytical results using Methods 8260/or 8310
UMW-111A	Replacement well for UMW-111.
	Analyte detected above Tier 1 Remedial Objective.

TABLE 2-10
QUARTERLY GROUNDWATER SAMPLE ANALYTICAL RESULTS
BTEX and NAPHTHALENE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Monitoring Well	Sampling Date		Concentration ug/L Benzene		Ethylbenzene		Toluene		Xylenes (Total)		Total BTEX	Naphthalene	
Tier 1 Remedial Objective			5		700		1,000		10,000			140	
UMW-107	02/04/97		2,820		79.5	J	ND(125)		114	J	3014	75.3	
	02/04/97	d	3,060		84.8	J	ND(125)		120	J	3265	82.1	
	05/07/97		2,050		67.3		14.2		114		2246	90.6	
	08/05/97		2,460		79.8		15.4		111	J	2666	92.0	
	11/04/97		3,430		131		22.7	J	193		3777	130	
	02/02/98		2,910		106		19.6		160		3196	75.5	
	05/04/98		2,130		72.8		ND(50)		164		2367	85	
	05/04/98	d	1,870		61.6		ND(50)		139		2071	78	
	08/06/98		2,260		60.7		ND(50)		120		2441	ND(5)	
	11/10/98		4,110		146		ND(50)		220		4476	239	
	03/25/99		2,320		66.2		ND(50)		134		2520	ND(250)	
	06/16/99		1,220		ND(100)		ND(100)		144		1364	30	
	09/14/99		1,480		47		ND(20)		77.2		1604	265	
	12/08/99		3,160		136		ND(50)		209		3505	164	
	03/02/00		1,810		80.8		ND(20)		87.1		1978	152	
	06/15/00		652		115		15.4		178		960	212	
	09/26/00		4,840		236		ND(125)		370		5446	702	
	12/27/00		2,040		89.5		11.5		166		2307	207	E
	12/27/00	d	2,100		87.4		11.9		169		2368	198	
	03/08/01		329		ND(125)		ND(125)		68		397	38.1	
	06/25/01		1,170		58.9		7.6		134		1371	70.4	
	09/06/01		3,440		127		ND(125)		173		3740	172	
bailer	12/06/01		2,110		70	J	ND(125)		120	J	2300	167	
peristaltic	12/06/01	d	1,630		103		11.1		190		1934	154	
	03/06/02		800		52.9		5.4		119		977	35.2	
	06/04/02		704		41.9		5.0		103		854	86.6	
	09/04/02		2,290		110		ND(200)		170		2570	123	
	12/05/02		2,190		98	J	ND(200)		150	J	2438	181	
	03/12/03		2,000		150	J	ND(500)		290	J	2440	174	
	06/12/03		678		34	J	ND(125)		74	J	786	80.1	
	03/02/04		986		ND(50)		ND(50)		57		1043	83.7	
	05/25/04		694		18		ND(50)		59.4		753	52.4	
	07/26/04		760		ND(250		ND(250)		77		837	87.7	
	12/07/04		416		ND(250		ND(125)		49		465	59.7	
	03/15/05		589		36		4.0		64.1		653	53.2	
	06/09/05		549		27.8		ND(25)		49.2		598	59.4	
	09/27/05		344		17.1		2.6		32.1		376	58	
	12/27/05		859		46.5		5.4		54.4		913	130	
	03/30/06		231		18.6		<5		28.6		260	57.8	
	06/22/06		289		18.2		2.4		30.7		320	106	
	09/19/06		1,280		69.1		11.0		81.2		1361	180	
	12/13/06		812		44.1		7.1		55.2		867	47.7	
	03/27/07		0.308		0.015	J	ND(50)		0.024	J	0.332	0.0684	S
	06/14/07		798		32		ND(50)		43.0		841	170	
	09/21/07		544		31	J	ND(50)		42.0	J	586	118	
	09/21/07		1,020		55.7		ND(50)		71.5		1092	194	

d	Duplicate sample for QA/QC.
J	Estimated concentration below method detection limit.
ls	Laboratory split to second laboratory for quality assurance and quality control.
ND	Not Detected (Detection Limit).
- -	Not Applicable.
*	Suspected laboratory error; carryover in capillary column from other samples.
NA	Not analyzed
**	3,210/5,810 are analytical results using Methods 8260/or 8310
UMW-111A	Replacement well for UMW-111.
	Analyte detected above Tier 1 Remedial Objective.

TABLE 2-10
QUARTERLY GROUNDWATER SAMPLE ANALYTICAL RESULTS
BTEX and NAPHTHALENE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Monitoring Well	Sampling Date		Concentration ug/L Benzene		Ethylbenzene	Toluene		Xylenes (Total)	Total BTEX	Naphthalene
Tier 1 Remedial Objective			5		700	1,000		10,000		140
UMW-108	02/03/97		ND(5)		ND(5)	ND(5)		ND(5)	0.0	ND(5)
	05/07/97		ND(5)		ND(5)	ND(5)		ND(5)	0.0	ND(5)
	05/07/97	d	ND(5)		ND(5)	ND(5)		ND(5)	0.0	ND(5)
	08/04/97		ND(5)		ND(5)	ND(5)		ND(5)	0.0	ND(5)
	11/03/97		ND(5)		ND(5)	ND(5)		ND(5)	0.0	ND(5)
	02/02/98		ND(5)		ND(5)	ND(5)		ND(5)	0.0	ND(5)
	05/04/98		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5.7)
	08/05/98		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5)
	08/05/98	d	ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5)
	11/10/98		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5)
	03/25/99		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(10)
	06/16/99		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5)
	09/14/99		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5)
	12/09/99		ND(2)		ND(2)	ND(2)		ND(5)	0.0	ND(6)
	03/02/00		ND(2)		ND(2)	ND(2)		ND(4)	0.0	ND(5)
	06/15/00		0.8	J	ND(2)	ND(5)		ND(4)	0.8	ND(10)
	09/26/00		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	12/27/00		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	03/08/01		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	06/25/01		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	09/06/01		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	12/06/01		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	03/06/02		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	06/04/02		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	09/04/02		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	12/05/02		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	03/12/03		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	06/12/03		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	03/02/04		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	05/25/04		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	07/26/04		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(3)
	12/06/04		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	03/15/05		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	06/09/05		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	09/27/05		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	12/27/05		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	03/30/06		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	06/22/06		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	09/19/06		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	12/13/06		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	03/26/07		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	06/14/07		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
	09/21/07		ND(2)		ND(5)	ND(5)		ND(5)	0.0	ND(10)
UMW-109	03/25/99		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(10)
	06/16/99		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5)
	09/14/99		ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5)
	09/14/99	d	ND(2)		ND(2)	ND(2)		ND(2)	0.0	ND(5)
	12/09/99		ND(2)		ND(2)	ND(2)		ND(5)	0.0	ND(6)
	03/02/00		ND(2)		ND(2)	ND(2)		ND(4)	0.0	ND(5)
	06/15/00		ND(2)		ND(2)	ND(5)		ND(5)	0.0	ND(10)
	07/26/04		ND(2)		ND(2)	ND(5)		ND(5)	0.0	ND(3)
	03/26/07		ND(2)		ND(2)	ND(5)		ND(5)	0.0	ND(3)
UMW-110	07/26/04		15.6		67.5	2.3		37.3	122.7	24.6
	03/27/07		0.0078		0.0217	0.0014	J	0.0238	0.0547	0.00571

d	Duplicate sample for QA/QC.
J	Estimated concentration below method detection limit.
ls	Laboratory split to second laboratory for quality assurance and quality control.
ND	Not Detected (Detection Limit).
- -	Not Applicable.
*	Suspected laboratory error; carryover in capillary column from other samples.
NA	Not analyzed
**	3,210/5,810 are analytical results using Methods 8260/or 8310
UMW-111A	Replacement well for UMW-111.
	Analyte detected above Tier 1 Remedial Objective.

TABLE 2-10
QUARTERLY GROUNDWATER SAMPLE ANALYTICAL RESULTS
BTEX and NAPHTHALENE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Monitoring Well	Sampling Date		Concentration ug/L Benzene	Ethylbenzene		Toluene	Xylenes (Total)	Total BTEX	Naphthalene	
Tier 1 Remedial Objective			5	700		1,000	10,000		140	
UMW-111	09/14/99		ND(2)	ND(2)		ND(2)	ND(2)	0.0	ND(5)	
	12/09/99		ND(2)	ND(2)		ND(2)	ND(5)	0.0	ND(6)	
	06/15/00		ND(2)	ND(2)		ND(5)	ND(5)	0.0	ND(10)	
	09/26/00		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	12/27/00		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/08/01		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	06/25/01		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	09/06/01		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	12/06/01		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/06/02		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	06/04/02		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	09/04/02		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	12/05/02		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/12/03		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	06/12/03		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/02/04		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	05/25/04		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	07/26/04		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(3)	
	12/06/04		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/15/05		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	06/09/05		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	09/27/05		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	12/27/05		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/30/06		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	06/22/06		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	09/19/06		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	12/13/06		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/26/07		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	06/14/07		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	09/21/07		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
UMW-112	02/03/97		ND(5)	ND(5)		ND(5)	ND(5)	0.0	ND(5)	
	05/07/97		ND(5)	ND(5)		ND(5)	ND(5)	0.0	ND(5)	
	08/04/97		ND(5)	ND(5)		ND(5)	ND(5)	0.0	ND(5)	
	11/03/97		ND(5)	ND(5)		ND(5)	ND(5)	0.0	ND(5)	
	02/02/98		ND(5)	ND(5)		ND(5)	ND(5)	0.0	ND(5)	
	05/04/98		ND(2)	ND(2)		ND(2)	ND(2)	0.0	ND(22.5)	*
	08/05/98		ND(2)	ND(2)		ND(2)	ND(2)	0.0	ND(5)	
	08/05/98	ls	ND(5)	ND(5)		ND(5)	ND(5)	0.0	ND(5)	
	11/10/98		ND(2)	ND(2)		ND(2)	ND(2)	0.0	ND(5)	
	03/25/99		ND(2)	ND(2)		ND(2)	ND(2)	0.0	ND(10)	
	06/16/99		ND(2)	ND(2)		ND(2)	ND(2)	0.0	ND(5)	
	06/16/99	d	ND(2)	ND(2)		ND(2)	ND(2)	0.0	ND(5)	
	09/14/99		ND(2)	ND(2)		ND(2)	ND(2)	0.0	ND(5)	
	12/08/99		ND(2)	ND(2)		ND(2)	ND(5)	0.0	ND(6)	
	03/02/00		ND(2)	ND(2)		ND(2)	ND(4)	0.0	ND(5)	
	06/15/00		ND(2)	ND(2)		ND(5)	ND(5)	0.0	ND(10)	
	09/26/00		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	12/27/00		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/08/01		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	06/25/01		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	09/06/01		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	12/06/01		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/06/02		ND(2)	1.1	J	ND(5)	ND(5)	1.1	3.3	J
	06/04/02		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	09/04/02		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	12/05/02		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/12/03		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	06/12/03		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	
	03/02/04		ND(2)	ND(5)		ND(5)	ND(5)	0.0	ND(10)	

(continued)

d Duplicate sample for QA/QC.
J Estimated concentration below method detection limit.
ls Laboratory split to second laboratory for quality assurance and quality control.
ND Not Detected (Detection Limit).
- - Not Applicable.
* Suspected laboratory error; carryover in capillary column from other samples.
NA Not analyzed

TABLE 2-10
QUARTERLY GROUNDWATER SAMPLE ANALYTICAL RESULTS
BTEX and NAPHTHALENE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Monitoring Well	Sampling Date	Concentration ug/L					
		Benzene	Ethylbenzene	Toluene	Xylenes (Total)	Total BTEX	Naphthalene
Tier 1 Remedial Objective		5	700	1,000	10,000		140

** 3,210/5,810 are analytical results using Methods 8260/or 8310

UMW-111A Replacement well for UMW-111.

Analyte detected above Tier 1 Remedial Objective.

TABLE 2-10
QUARTERLY GROUNDWATER SAMPLE ANALYTICAL RESULTS
BTEX and NAPHTHALENE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Monitoring Well	Sampling Date	Concentration ug/L Benzene	Ethylbenzene	Toluene	Xylenes (Total)	Total BTEX	Naphthalene
Tier 1 Remedial Objective		5	700	1,000	10,000		140
UMW-112 (continued)	05/25/04	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	07/26/04	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(3)
	12/06/04	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	03/15/05	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	06/09/05	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	09/27/05	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	12/27/05	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	03/30/06	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	06/22/06	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	09/19/06	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	12/13/06	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	03/26/07	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	06/14/07	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	09/21/07	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
UMW-113	07/26/04	5.7	1	ND(5)	4.8	11.5	ND(3)
	03/27/07	0.0104	0.0022 J	ND(5)	0.0023 J	0.0149	0.00017
UMW-114	02/03/97	1,430	1,330	47.3 J	622	3429	1,700
	05/08/97	1,410	1,170	27.4	586	3193	2,620
	08/05/97	1,220	1,240	33.0	573	3066	1,800
	11/04/97	1,400	1,310	52.6	627	3390	2,300
	02/03/98	1,220	1,100	117	645	3082	2,280
	02/03/98 d	1,200	1,060	118	618	2996	2,210
	05/05/98	1,170	1,280	107.0	759	3316	3,210/5,810**
	08/06/98	1,060	1,290	ND(50)	2,140	4490	4,000
	11/11/98	998	769	ND(100)	709	2476	3,050
	03/25/99	911	888	116.0	675	2590	4,190
	06/16/99	1,180	1,260 J	166.0	780 J	3386	2,180
	09/14/99	1,270	1,330	201.0	834	3635	3,350
	12/08/99	1,140	1,280	242.0	862	3524	3,170
	03/02/00	930	811	186.0	572	2499	3,400
	06/15/00	1,080	ND(50)	ND(50)	ND(50)	1080	5,740
	09/26/00	886	1,080	169.0	669	2804	3,750
	12/27/00	858	983	171.0	728	2740	2,800
	03/08/01	841	1,220	212.0	766	3039	2,370
	06/25/01	974	1,180	119.0	666	2939	2,410
	09/06/01	764	818	98.0 J	526	2206	765
	12/06/01	910	1,190	196.0	733	3029	3,200
	03/06/02	810	1,160	197.0	849	3016	2,270
	06/04/02	804	1,250	215.0	844	3113	4,400
	09/04/02	557	843	110.0	522	2032	3,960
	12/05/02	832	1,220	190.0 J	526	2768	3,250
	03/12/03	703	1,160	150.0 J	727	2740	2,860
	06/12/03	826	1160	173	772	2931	3540
	06/12/03 d	786	1080	160	728	2754	3.54
	03/02/04	754	1040	<250	481	2275	4480
	05/25/04	760	1230	153	861	2851	3660
	07/26/04	628	868	120	425	2041	3650
	12/07/04	796	1130	164	848	2938	3510
	03/15/05	736	1250	164	899	3049	5580
	06/09/05	867	1260	152	932	3211	5120
	09/27/05	1130	1370	190	1010	3700	11500
	12/27/05	939	1150	133	891	3113	5980
	03/30/06	875	1220	123	958	3176	6000
	06/22/06	936	1140	131	1020	3227	7510
	09/19/06	938	1220	150	924	3232	7880
	12/31/06	1080	1110	170	1020	3380	5260
	03/27/07	1.020	1.230	0.140 J	0.974	3.36	3.61
	06/14/07	1150	1160	170 J	963	3443	6440
	09/21/07	1120	1060	130 J	861	3171.00	5560

d	Duplicate sample for QA/QC.
J	Estimated concentration below method detection limit.
ls	Laboratory split to second laboratory for quality assurance and quality control.
ND	Not Detected (Detection Limit).
- -	Not Applicable.
*	Suspected laboratory error; carryover in capillary column from other samples.
NA	Not analyzed
**	3,210/5,810 are analytical results using Methods 8260/or 8310
UMW-111A	Replacement well for UMW-111.
	Analyte detected above Tier 1 Remedial Objective.

TABLE 2-10
QUARTERLY GROUNDWATER SAMPLE ANALYTICAL RESULTS
BTEX and NAPHTHALENE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Monitoring Well	Sampling Date		Concentration ug/L Benzene		Ethylbenzene		Toluene		Xylenes (Total)		Total BTEX	Naphthalene	
Tier 1 Remedial Objective			5		700		1,000		10,000			140	
UMW-115	02/03/97		30.8		3.6	J	ND(5)		ND(5)		34.4	ND(5)	
	05/08/97		6.1		6.1		ND(5)		ND(5)		12.2	ND(5)	
	08/04/97		10.5		2.2	J	ND(5)		ND(5)		12.7	ND(5)	
	08/04/97	d	10.3		2.1	J	ND(5)		ND(5)		12.4	2.5	J
	11/04/97		10.1		2.5	J	ND(5)		ND(5)		12.6	ND(5)	
	02/03/98		4.4	J	2	J	ND(5)		ND(5)		6.4	ND(5)	
	05/05/98		5.6		6.6		ND(2)		ND(2)		12.2	ND(5)	
	08/06/98		9.5		ND(2)		ND(2)		ND(2)		9.5	ND(5)	
	11/11/98		ND(2)		ND(2)		ND(2)		ND(2)		0.0	ND(5)	
	11/11/98	d	ND(2)		ND(2)		ND(2)		ND(2)		0.0	ND(5)	
	03/25/99		ND(2)		4.4		ND(2)		4.3		8.7	13.2	
	06/16/99		523		ND(20)		ND(20)		34		557.0	83.8	
	09/14/99		56.5		ND(2)		ND(2)		2.7		59.2	ND(5)	
	12/09/99		31.2		ND(2)		ND(2)		ND(5)		31.2	ND(6)	
	03/02/00		46.3		ND(2)		ND(2)		ND(4)		46.3	ND(5)	
	06/15/00		46.3	J	2.4	J	1.5	J	1.1	J	51.3	27.8	J
	09/26/00		27.2		1.1	J	1.4	J	ND(5.0)		29.7	ND(10)	
	12/27/00		14		ND(5)		ND(5)		ND(5)		14.0	ND(10)	
	03/08/01		20.2		ND(5)		ND(5)		ND(5)		20.2	ND(10)	
	06/25/01		31		1.1	J	1.5	J	ND(5)		33.6	3.8	J
	09/06/01		34.4		2.0	J	1.7	J	ND(5)		38.1	6.1	J
	12/06/01		14.7		1.6		ND(5)		ND(5)		16.3	46.0	J
	12/06/01	d	12.1		1.2	J	ND(5)		ND(5)		13.3	7.3	J
	03/06/02		24.8		1.2	J	ND(5.0)		1.4	J	27.4	5.5	J
	06/04/02		14.3		ND(5)		ND(5)		ND(5)		14.3	20.9	
	09/04/02		756		1030.0		150		581		2517.0	3130	
	10/07/02		7.0		1.3	J	ND(5)		1.5	J	9.8	ND(10)	
	12/05/02		6.4		1.2	J	ND(5)		ND(5)		7.6	ND(10)	
	03/12/03		4.4		ND(5)		ND(5)		ND(5)		4.4	ND(10)	
	06/12/03		13.4		ND(5)		ND(5)		ND(5)		13.4	6.4	J
	03/02/04		ND(2)		ND(5)		ND(5)		ND(5)		0.0	ND(10)	
	05/25/04		12.2		ND(5)		ND(5)		ND(5)		12.2	ND(10)	
	07/26/04		12.9		1.2		ND(5)		ND(5)		14.1	ND(3)	
	12/07/04		5.9		ND(5)		ND(5)		ND(5)		5.9	ND(10)	
	03/15/05		5.2		ND(5)		ND(5)		ND(5)		5.2	ND(10)	
	06/09/05		8.3		ND(5)		1.1		ND(5)		9.4	ND(10)	
	09/27/05		12.5		1.9		1.1		ND(5)		15.5	ND(10)	
	12/27/05		4.1		ND(5)		ND(5)		ND(5)		4.1	ND(10)	
	03/30/06		2.7		ND(5)		ND(5)		ND(5)		2.7	ND(10)	
	06/22/06		11.7		ND(5)		1.4		1		14.1	ND(10)	
	09/19/06		7.0		1.4		ND(5)		1.2		9.6	ND(10)	
	12/13/06		4.4		ND(5)		ND(5)		1.2		5.6	ND(10)	
	03/27/07		0.0021		ND(5)		ND(5)		ND(5)		0.0021	0.00018	
	06/14/07		9.0		ND(5)		ND(5)		ND(5)		9.0	3.9	J
	09/21/07		12.3		1.8	J	1.2	J	1.3	J	16.6	ND(10)	

d	Duplicate sample for QA/QC.
J	Estimated concentration below method detection limit.
ls	Laboratory split to second laboratory for quality assurance and quality control.
ND	Not Detected (Detection Limit).
- -	Not Applicable.
*	Suspected laboratory error; carryover in capillary column from other samples.
NA	Not analyzed
**	3,210/5,810 are analytical results using Methods 8260/or 8310
UMW-111A	Replacement well for UMW-111.
	Analyte detected above Tier 1 Remedial Objective.

TABLE 2-10
QUARTERLY GROUNDWATER SAMPLE ANALYTICAL RESULTS
BTEX and NAPHTHALENE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Monitoring Well	Sampling Date		Concentration ug/L Benzene	Ethylbenzene	Toluene	Xylenes (Total)	Total BTEX	Naphthalene	
Tier 1 Remedial Objective			5	700	1,000	10,000		140	
UMW-116	02/03/97		ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(5)	
	05/07/97		ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(5)	
	08/05/97		ND(5)	ND(5)	ND(5)	ND(5)	0.0	2.7	J
	11/03/97		ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(5)	
	11/03/97	d	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(5)	
	02/02/98		ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(5)	
	05/04/98		ND(2)	ND(2)	ND(2)	ND(2)	0.0	ND(5)	
	08/05/98		ND(2)	ND(2)	ND(2)	ND(2)	0.0	ND(5)	
	11/10/98		ND(2)	ND(2)	ND(2)	ND(2)	0.0	ND(5)	
	03/25/99		ND(2)	ND(2)	ND(2)	ND(2)	0.0	ND(10)	
	03/25/99	d	ND(2)	ND(2)	ND(2)	ND(2)	0.0	ND(10)	
	06/16/99		ND(2)	ND(2)	ND(2)	ND(2)	0.0	ND(5)	
	09/14/99		2.4	4.0	ND(2)	11.5	17.9	11.4	
	12/09/99		ND(2)	ND(2)	ND(2)	ND(5)	0.0	ND(7)	
	03/02/00		ND(2)	ND(2)	ND(2)	ND(4)	0.0	ND(5)	
	06/15/00		ND(2)	ND(2)	ND(5)	ND(5)	0.0	ND(10)	
	09/26/00		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	09/26/00	d	ND(2)	ND(5)	ND(5)	ND(5)	0.0	2.4	J
	12/27/00		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	03/08/01		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	06/25/01		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	09/03/01		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	12/06/01		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	03/06/02		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	06/04/02		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	09/04/02		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	12/05/02		ND(2)	ND(5)	ND(5)	ND(5)	0.0	8.6	J
	03/12/03		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	06/12/03		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	03/02/04		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	05/25/04		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	07/26/04		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(3)	
	12/06/04		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	03/15/05		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	06/09/05		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	09/27/05		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	12/27/05		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	03/30/06		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	06/22/06		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	09/19/06		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	12/13/06		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	03/26/07		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	06/14/07		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
	09/21/07		ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	

d	Duplicate sample for QA/QC.
J	Estimated concentration below method detection limit.
ls	Laboratory split to second laboratory for quality assurance and quality control.
ND	Not Detected (Detection Limit).
- -	Not Applicable.
*	Suspected laboratory error; carryover in capillary column from other samples.
NA	Not analyzed
**	3,210/5,810 are analytical results using Methods 8260/or 8310
UMW-111A	Replacement well for UMW-111.
	Analyte detected above Tier 1 Remedial Objective.

TABLE 3-1
CSI TEST PIT LOCATION RATIONALE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

TEST PIT NUMBER	LOCATION RATIONALE
TP-501	Investigate potential pathways for MGP residuals observed in well UMW - 103 and geoprobe sampling completed in the Sixth St. right-of-way during SSI (1997).
TP-502 TP-503	Investigate potential pathways from plant area sources to tar observed in UMW-101 north of railroad right-of-way. These test pits may be merged into a single test pit based on presence or absence of groundwater in flow. Observations may result in location changes for off-site borings.
TP-504	Investigate inlet - outlet sump / value box for holder tank GH-1. Location identified form 1922 site plan. Not investigated at time of 1997 IRM.
TP-505	Investigate outlet piping from gas holder GH-3, location identified from 1922 site plan.
TP-506	Investigate inlet piping for gas holder GH-3.
TP-507	Investigate outlet piping from gas holder GH-2. The 1922 site plan shows two 10" diameter outlet pipes. Investigate the possible presence of sump / value box which may be source of MGP residuals.
TP-508	Investigate 20" inlet pipe sump / value box for gas holder GH-2 as shown of 1922 site plan. May have been partially removed during 1997 IRM. This is the general area where a large value / pipe was removed and where a curved brick wall was encountered.
TP-509	Investigate curved brick wall encountered during IRM. Determine exact location and condition as well as presence or absence of residuals outside of the wall.
TP-510	Investigate foundation of holder GH-2 and possible presence of a below grade brick holder tank. GH-2 was used as a relief holder and if it is a below grade tank, may be an additional source of MGP residuals not removed during 1997 IRM.

TABLE 3-2
CSI ON SITE BORING LOCATION RATIONALE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

BORING NUMBER	LOCATION RATIONALE *
B-501	Located near central west property line adjacent to Phase 1 probe locations where visible and odor impacts were noted and where elevated levels of BETX were measured in soil gas. Also near boring UTB-26 where both BETX and PAH's were noted in analytical samples.
B-502	Located near northwest corner within area where gas plant process buildings were located near the offsite probe locations where visible impacts and soil gas impacts were noted. West of IRM tar well and GH-1 removal area and UTB-26 boring where BETX and PAH's were noted between 6 and 23 ft. bgs.
B-503	Located along fence north of tar well removal area. Between probe holes PH-6 and PH-114 which were unimpacted and off-site probe (PH-103 & PH-113) and boring (UTB-11) locations which were impacted at shallow (8'-13') depths.
B-504	Located along north property line between IRM removal area (GH-1) and off-site well (UMW-101) where NAPL was observed. Final location for B-504 will be based on field observations in test pits TP-502 and TP-503. Also located north of possible tar well which could not be located during IRM.
B-505	Located within footprint of former gas holder GH-2 to characterize holder tank contents and depth if test pits determine the presence of a below grade structure. If no below grade structure exists, this boring will help characterize vertical and lateral extent and determine if impacts are present under GH-2 foundation.
B-506	Located within an area between several probe holes and a boring (UTB-28) that have odor, visual and laboratory evidence or MGP impacts.
B-507	Located between historical tar tanks and the "Gas Experiment Station" at northeast corner of the site. Also located in an area between several probe locations have impacts. Investigate source and /or pathway for residuals observed off-site to the east.
B-508	Located within the structure area o the "Gas Experiment Station". There have been no probe holes or borings in this area during previous investigations.
B-509	Located in area along potential off-site pathway where minimal investigation done during previous phases. Areas north and west tend to be impacted and the area south and east are either not impacted or have only minor impacts.
B-510	Located near southeast corner, an area similar to B-509, but possible down gradient of heavily impacted well UMW-114.
B-511	Located on slab for former gas holder GH-3 to confirm presence or absence of residuals under the slab.
B-512	Located along southern property line near former above ground fuel tanks and between two impacted monitoring wells (UMW-114 & UMW-115). Within an area where probe holes had no or minor impacts.
B-513	Located at southwest corner of site, area where several above ground tanks were located.
B-514	Located in area between both probe holes and borings where significant impacts were observed. Also in area where IRM removal activities occurred. Located near middle of site to aid in general aerial coverage of site.

* General objective of the rationale is to provide complete aerial coverage of the site.

TABLE 4-1
CSI SOIL PROPERTIES SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Boring Number	Date Completed	Depth, Feet	Soil Type*	PID, ppm	% Moisture	% Solids	pH	Penetrometer
B - 501	7/13/04	1-2	FL	30.6	19.9	80.1	7.76	
		7-8	CL	29.6	19.7	80.3		
		14-15	SC	238	11.3	88.7		
		23-24	CH	1.4	10.4	89.6	8.00	3.0
B - 502	7/13/04	2-3	FL	10.6	9.0	91.0	8.09	2.25
		6-7	CH	217	18.8	81.2		2.25
		11-12	CH	468	19.6	80.4		0.75
	7/21/04	23-24	CH	10.2	10.1	89.9		4.5
B - 503	7/13/04	2-3	FL	100	19.4	80.6	7.68	0.75
		2-3 (D)	FL	100	47.8	52.2	7.56	
		9-10	CH	143	25.6	74.4		1.0
		10-11	CH	156	26.6	73.4		1.75
		18-19	MH	13.9	11.8	88.2		3.5
B - 504	7/13/04	2-3	FL	15.9	26.0	74.0	7.61	
		6-7	FL	530	29.9	70.1	7.74	1.25
		6-7 (D)	FL	530	28.7	71.3	7.52	
		13-14	CH	860	12.2	87.8		3.75
		20-21	CH	1101	9.0	91.0		
		27-28	CH	8.2	8.5	91.5		
B - 505	7/14/04	2-3	FL	46.2	15.2	84.8	7.75	
		5-6	FL	393	25	75.0		
		10-11	CH	202	21.9	78.1	7.76	1.0
		21-22	CH	2.7	10	90.0		2.75
		27-28	CH	5.8	10.3	89.7		3.25
B - 506	7/22/04	2-3	FL	3.6	20.2	79.8	7.37	1.25
		6-7	CH	431	22.9	77.1		1.0
		16-17	SP/SC	1865	9.9	90.1		
		27-28	CH	2.0	9.1	90.9	8.16	4.0
B - 507	7/21/04	0-1	FL	1.8	14.5	85.5	7.62	2.5
		7-8	CH	243	21.7	78.3		1.5
		18-19	SC/SM	2163	18.0	82.0	7.92	
		27-28	CH	4.5	9.6	90.4		3.5
B - 508	7/19/04	2-3	FL	6.3	20.7	79.3	7.60	1.25
		8-9	CH	294	20.1	79.9	7.60	1.25
		10-11	CH/SC	361	21.9	78.1		1.5
		27-28	SM	2.5	10.0	90.0		2.5
B - 509	7/21/04	2-3	FL	0.9	18.6	81.4	7.69	<0.5
		7-8	CH	13.1	22.2	77.8	7.33	1.0
		7-8(D)	CH	13.1	23.9	76.1	7.12	
		17-18	CH/SM	42.6	10.3	89.7		
		27-28	CH	0.5	10.7	89.3		4.0
B - 510	7/12/04	1-2	FL	21	24.5	75.5	7.69	2.25
		4-5	CH	5.9	21.2	78.8		2.5
		11-12	SC	10.2	12.0	88.0		10.2
		27-28	CH	5.5	13.8	86.2		0.75
B - 512	7/12/04	2-3		27	10.9	89.1	7.44	3.0
		7-8		494	20.2	79.8	7.56	1.25
		10-11		265	15.2	84.8		2.25
		23-24		6.2	10.5	89.5		2.75

Soil Type*
FL = FILL, silty CLAY with gravel, cinders, coal
SP = gravely SAND, poorly sorted
SM = silty SAND
SC = clayey SAND
CL = sandy CLAY, low to medium plasticity
CH = CLAY, high plasticity

TABLE 4-1
CSI SOIL PROPERTIES SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Boring Number	Date Completed	Depth, Feet	Soil Type*	PID, ppm	% Moisture	% Solids	pH	Penetrometer
B - 513	7/12/04	1-2		4.4	19.6	80.4	6.83	1.75
		1-2(D)		4.4	20.3	79.7	5.91	1.75
		7-8		420	14.5	85.5		0.75
		11-12		31.5	10.9	89.1	7.97	2.75
		23-24		5.0	10.5	89.5		3.0
B - 514	7/22/04	2-3		19.7	12.4	87.6	7.83	0.5
		2-3(D)		19.7	16.2	83.8	7.81	
		7-8		251	22.7	77.3		1.75
		16-17		1021	9.9	90.1		0.75
		27-28			10.1	89.9		2.5
B - 515	7/16/04	1-2	FL	7.7	15.3	84.7	7.91	1.5
		6-7	FL	333	32.1	67.9		
		18-19	CH/SC	1404	7.0	93.0		3.5
		31-32	CH	0.8	8.7	91.3	7.89	2.5
B - 516	7/22/04	2-3		3.6	20.4	79.6	7.53	1.25
		4-5		200	20.9	79.1		1.0
		4-5(D)		200	21.8	78.2		
		13-14		168	12.1	87.9		3.75
		23-24		2.8	10.4	89.6		4.0
B - 550	7/20/04	2-3	FL/CH	53.8	29.0	71.0	5.26	1.0
		8-9	CH/FL	105	25.2	74.8		
		10-11	FL	164	23.7	76.3		1.0
		15-16	SC	2.4	12.1	87.9		3.25
		27-28	SC	0.4	10.6	89.4		3.0
B - 551	7/8/04	2-3	FL	16.4	22.5	77.5	7.72	2.25
		9-10	CL	146	27.1	72.9		1.5
		15-16	CH	11.8	10.0	90.0		
		27-28	CH	3.9	9.5	90.5		4.0
B - 553	7/14/04	2-3	FL	20.3	20.2	79.8	7.26	2.75
		5-6	FL/CL	364	28.7	71.3		3.75
		14-15	CH	545	11.0	89.0		
		23-24	MG/CH	2241	6.6	93.4		
		31-32	CH	3.4	9.1	90.9	8.11	
		31-32(D)	CH	3.4	8.4	91.6	8.25	
B - 554	7/8/04	2-3	FL	13.2	22.0	78.0	7.62	
		2-3(D)	FL	13.2	23.3	76.7		
		9-10	CL	156	33.1	66.9		1.25
		17-18	SC/SP	892	10.4	89.6		3.75
		31-32	CH	1.2	9.8	90.2		2.25
B - 556	7/20/04	2-3	FL	6.4	25.5	74.5	5.26	2.5
		5-6	CH	295	22.9	77.1		1.75
		19-20	CH	518	11.9	88.1		4.0
		27-28	CH	2.3	9.1	90.9	8.15	
		27-28(D)	CH	2.3	9.2	90.8	8.23	
B - 557	7/20/04	0-1	FL	3.4	18.8	81.2	7.95	1.25
		9-10	CH	12.4	21.7	78.3		1.25
		11-12	CH	55.1	18.5	81.5	7.80	1.5
		23-24	CH	3.0	11.2	88.8		

Soil Type*
FL = FILL, silty CLAY with gravel, cinders, coal
SP = gravely SAND, poorly sorted
SM = silty SAND
SC = clayey SAND
CL = sandy CLAY, low to medium plasticity
CH = CLAY, high plasticity

TABLE 4-1
CSI SOIL PROPERTIES SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Boring Number	Date Completed	Depth, Feet	Soil Type*	PID, ppm	% Moisture	% Solids	pH	Penetrometer
B - 558	7/19/04	1-2	FL	4.2	21.9	78.1	6.65	2.0
		6-7	CH	31.6	22.0	78.0		2.0
		11-12	SC	23.2	22.0	78.0		<0.5
		17-18	CH	7.0	9.9	90.1		4.0
		27-28	CH	0.8	7.5	92.5		
B - 559	7/19/04	2-3	CH	1.7	20.5	79.5	7.12	1.75
		7-8	CH	3.7	21.5	78.5	7.20	1.25
		7-8(D)	CH	3.7	20.2	79.8	7.28	
		18-19	CH	4.4	9.8	90.2		
		27-28	CH	3.7	11.7	88.3		4.00
B - 560	7/15/04	2-3	FL	9.0	19.2	80.8	7.62	
		4-5	FL/CL	1.3	20.0	80.0		1.5
		12-13	SP	333	16.8	83.2		1.75
		19-20	CH	5.4	10.7	89.3		
		19-20(D)	CH	5.4	12.2	87.8		
		27-28	CH	8.8	8.6	91.4		
B - 561	7/15/04	0-1	FL	3	21.7	78.3	7.32	
		9-10	CH	214	17.8	82.2	7.78	4
		12-13	SC/SP	356	10.3	89.7		4
		18-19	CH	6.2	8.5	91.5		
		31-32	CH	0.3	11.2	88.8		1.75
		31-32(D)	CH	0.3	10.5	89.5		
B - 562	7/15/04	0-1	FL	5.9	23.7	76.3	7.56	
		9-10	CH	46.7	21.4	78.6		0.5
		13-14	SC	509	10.9	89.1	8.15	
		27-28	CH	0.4	8.9	91.1		4.0

Soil Type*
FL = FILL, silty CLAY with gravel, cinders, coal
SP = gravely SAND, poorly sorted
SM = silty SAND
SC = clayey SAND
CL = sandy CLAY, low to medium plasticity
CH = CLAY, high plasticity

TABLE 4-2
SITE INVESTIGATION SOIL ANALYTICAL SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Boring Number	Date Completed	Depth, Feet(bgs)	Analytical Perameters*						
			BTEX	PAHs	VOCs	SVOCs	TPH	Metals	CN
B - 558	7/19/04	1-2			X	X		X	X
		6-7	X	X			X		
		11-12	X	X					
		17-18	X	X					
		27-28	X	X					
B - 559	7/19/04	2-3	X	X				X	X
		7-8			X	X		X	
		7-8(D)			X	X		X	
		18-19	X	X			X		
		27-28	X	X					
B - 560	7/15/04	2-3	X	X				X	X
		4-5	X	X					
		12-13	X	X			X		
		19-20	X	X					
		19-20(D)	X	X					
		27-28	X	X					
B - 561	7/15/04	0-1	X	X				X	X
		9-10			X	X		X	
		12-13	X	X			X		
		18-19	X	X					
		31-32	X	X					
		31-32(D)	X	X					
B - 562	7/15/04	0-1	X	X				X	X
		9-10	X	X					
		13-14			X	X	X	X	
		27-28	X	X					
TP - 501	7/8/04	7'	X	X			X		
TP - 503	7/8/04	3'	X	X			X		
TP - 503A	7/8/04	3.5'	X	X			X		
TP - 504	7/8/04	3'	X	X			X		
TP - 507	7/7/04	3.5'	X	X			X		
TP - 508	7/8/04	4'	X	X			X		

***USEPA SW-846 Analytical Methods**
BTEX & VOCs - Method 8260
PAHs & SVOCs - Method 8270
TPH - Method 8015
Metals - Series 6000/7000 Methods
Cyanide - Method 9010

TABLE 4-2
SITE INVESTIGATION SOIL ANALYTICAL SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Boring Number	Date Completed	Depth, Feet(bgs)	Analytical Perameters*						
			BTEX	PAHs	VOCs	SVOCs	TPH	Metals	CN
B - 513	7/12/04	1-2	X	X				X	X
		1-2(D)	X	X				X	X
		7-8	X	X			X		
		11-12			X	X		X	
		23-24	X	X					
B - 514	7/22/04	2-3			X	X		X	X
		2-3(D)			X	X		X	X
		7-8	X	X					
		16-17	X	X			X		
		27-28	X	X					
B - 515	7/16/04	1-2	X	X				X	X
		6-7	X	X					
		18-19	X	X			X		
		31-32			X	X		X	
B - 516	7/22/04	2-3	X	X				X	X
		4-5	X	X			X		
		4-5(D)	X	X			X		
		13-14	X	X					
		23-24	X	X					
B - 550	7/20/04	2-3			X	X		X	X
		8-9	X	X					
		10-11	X	X			X		
		15-16	X	X					
		27-28	X	X					
B - 551	7/8/04	2-3	X	X				X	X
		9-10	X	X			X		
		15-16	X	X					
		27-28	X	X					
B - 553	7/14/04	2-3	X	X				X	X
		5-6	X	X					
		14-15	X	X					
		23-24	X	X			X		
		31-32			X	X		X	
		31-32(D)			X	X		X	
B - 554	7/8/04	2-3			X	X		X	X
		2-3(D)	X	X					
		9-10	X	X					
		17-18	X	X			X		
		31-32	X	X					
B - 556	7/20/04	2-3	X	X				X	X
		5-6	X	X					
		19-20	X	X			X		
		27-28			X	X		X	
		27-28(D)			X	X		X	
B - 557	7/20/04	0-1	X	X				X	X
		9-10	X	X					
		11-12			X	X	X	X	
		23-24	X	X					

***USEPA SW-846 Analytical Methods**
BTEX & VOCs - Method 8260
PAHs & SVOCs - Method 8270
TPH - Method 8015
Metals - Series 6000/7000 Methods
Cyanide - Method 9010

TABLE 4-2
SITE INVESTIGATION SOIL ANALYTICAL SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Boring Number	Date Completed	Depth, Feet(bgs)	Analytical Perameters*						
			BTEX	PAHs	VOCs	SVOCs	TPH	Metals	CN
B - 501	7/13/04	1-2	X	X				X	X
		7-8	X	X					
		14-15	X	X			X		
		23-24			X	X		X	
B - 502	7/13/04	2-3	X	X				X	X
		6-7	X	X					
		11-12	X	X				X	
	7/21/04	23-24	X	X					
B - 503	7/13/04	2-3			X	X		X	X
		2-3 (D)			X	X		X	X
		9-10	X	X					
		10-11	X	X			X		
		18-19	X	X					
B - 504	7/13/04	2-3	X	X			X	X	X
		6-7			X	X		X	
		6-7 (D)			X	X		X	
		13-14	X	X					
		20-21	X	X			X		
		27-28	X	X					
B - 505	7/14/04	2-3	X	X				X	X
		5-6	X	X			X		
		10-11			X	X		X	
		21-22	X	X					
		27-28	X	X					
B - 506	7/22/04	2-3	X	X				X	X
		6-7	X	X					
		16-17	X	X			X		
		27-28			X	X		X	
B - 507	7/21/04	0-1	X	X				X	X
		7-8	X	X					
		18-19			X	X	X	X	
		27-28	X						
B - 508	7/19/04	2-3	X	X				X	X
		8-9			X	X		X	
		10-11	X	X			X		
		27-28	X	X					
B - 509	7/21/04	2-3	X	X				X	X
		7-8			X	X		X	
		7-8(D)			X	X		X	
		17-18	X	X			X		
		27-28	X	X					
B - 510	7/12/04	1-2			X	X	X	X	X
		4-5	X	X					
		11-12	X	X					
		27-28	X	X					
B - 512	7/12/04	2-3	X	X				X	X
		7-8			X	X	X	X	
		10-11	X	X					
		23-24	X	X					

***USEPA SW-846 Analytical Methods**
BTEX & VOCs - Method 8260
PAHs & SVOCs - Method 8270
TPH - Method 8015
Metals - Series 6000/7000 Methods
Cyanide - Method 9010

TABLE 5-1
TIER I REMEDIAL OBJECTIVES
BTEX AND PAHs

CONSTITUENT	Ingestion			Inhalation			Soil Component to Groundwater	MSA Background	UNITS
	Residential	Commercial	Construction	Residential	Commercial	Construction	(Class I)	Metropolitan Areas	
Benzene	12,000	100,000	2,300,000	800	1,600	2,200	30	--	(ug/kg)
Ethylbenzene	7,800,000	200,000,000	20,000,000	400,000	4,000,000	58,000	13,000	--	(ug/kg)
Toluene	16,000,000	410,000,000	410,000,000	650,000	650,000	42,000	12,000	--	(ug/kg)
Xylene (total)	16,000,000	410,000,000	41,000,000	410,000	320,000	5,600	150,000	--	(ug/kg)
Acenaphthene	4,700,000	120,000,000	120,000,000	-----	-----	-----	570,000	130	(ug/kg)
Acenaphthylene	-----	-----	-----	-----	-----	-----	-----	70	(ug/kg)
Anthracene	23,000,000	610,000,000	610,000,000	-----	-----	-----	12,000,000	400	(ug/kg)
Benzo(a)anthracene	900	8,000	170,000	-----	-----	-----	2,000	1800	(ug/kg)
Benzo(a)pyrene	90	800	17,000	-----	-----	-----	8,000	2100	(ug/kg)
Benzo(b)fluoranthene	900	8,000	170,000	-----	-----	-----	5,000	2100	(ug/kg)
Benzo(ghi)perylene	-----	-----	-----	-----	-----	-----	-----	1700	(ug/kg)
Benzo(k)fluoranthene	9,000	78,000	1,700,000	-----	-----	-----	49,000	1700	(ug/kg)
Chrysene	88,000	780,000	17,000,000	-----	-----	-----	160,000	2700	(ug/kg)
Dibenzo(a,h)anthracene	90	800	17,000	-----	-----	-----	2,000	420	(ug/kg)
Fluoranthene	3,100,000	82,000,000	82,000,000	-----	-----	-----	4,300,000	4100	(ug/kg)
Fluorene	3,100,000	82,000,000	82,000,000	-----	-----	-----	560,000	180	(ug/kg)
Indeno(1,2,3-cd)pyrene	900	8,000	170,000	-----	-----	-----	14,000	1600	(ug/kg)
Naphthalene	1,600,000	41,000,000	4,100,000	170,000	270,000	1,800	12,000	200	(ug/kg)
Phenanthrene	-----	-----	-----	-----	-----	-----	-----	2500	(ug/kg)
Pyrene	2,300,000	61,000,000	61,000,000	-----	-----	-----	4,200,000	3000	(ug/kg)

Notes:
ug/kg Micrograms per kilogram
(1) Provisional remediation objective provided by IEPA
---- No remediation objective has been established by the IEPA for this constituent for this exposure route

TABLE 5-2
TIER I REMEDIAL OBJECTIVES
VOCs

	Soil						Soil Component to Groundwater	
	Ingestion			*Inhalation*				
CONSTITUENT	**Residential**	**Commercial**	**Construction**	**Residential**	**Commercial**	**Construction**	**(Class I)**	**UNITS**
1,1,1-Trichloroethane	---	---	---	1,200,000	1,200,000	1,200,000	2,000	(ug/kg)
1,1,2,2-Tetrachloroethane	2,300,000	61,000,000	6,100,000	1,000,000	1,000,000	1,000,000	2,000	(ug/kg)
1,1,2-Trichloroethane	310,000	8,200,000	8,200,000	1,800,000	1,800,000	1,800,000	20	(ug/kg)
1,1-Dichloroethane	7,800,000	200,000,000	200,000,000	1,300,000	1,700,000	130,000	23,000	(ug/kg)
1,1-Dichloroethylene	700,000	18,000,000	1,800,000	1,500,000	1,500,000	300,000	60	(ug/kg)
1,2-Dichloroethane	7,000	63,000	1,400,000	400	700	990	20	(ug/kg)
1,2-Dichloropropane	9,000	84,000	1,800,000	15,000	23,000	500	30	(ug/kg)
2-Hexanone	---	---	---	---	---	---	---	(ug/kg)
Acetone	7,800,000	200,000,000	200,000,000	100,000,000	100,000,000	10,000,000	16,000	(ug/kg)
Bromodichloromethane	10,000	92,000	2,000,000	3,000,000	3,000,000	3,000,000	600	(ug/kg)
Bromoform	81,000	720,000	16,000,000	53,000	100,000	140,000	800	(ug/kg)
Carbon Disulfide	7,800,000	200,000,000	20,000,000	720,000	720,000	9,000	32,000	(ug/kg)
Carbon tetrachloride	5,000	44,000	410,000	300	640	900	70	(ug/kg)
Chlorobenzene	1,600,000	41,000,000	4,100,000	130,000	210,000	1,300	1,000	(ug/kg)
Chloroethane	---	---	---	---	---	---	---	(ug/kg)
Chloroform	100,000	940,000	2,000,000	300	540	760	600	(ug/kg)
cis-1,2-Dichloroethylene	780,000	20,000,000	20,000,000	1,200,000	1,200,000	1,200,000	400	(ug/kg)
cis-1,3-Dichloropropene	6,400	57,000	1,200,000	1,100	2,100	390	4	(ug/kg)
Dibromochloromethane	1,600,000	41,000,000	41,000,000	1,300,000	1,300,000	1,300,000	400	(ug/kg)
Diesel fuel no. 2								(mg/kg)
Ethene, 1,2-dichloro-, (E)-	1,600,000	41,000,000	41,000,000	3,100,000	3,100,000	3,100,000	700	(ug/kg)
Gasoline								(mg/kg)
Methyl bromide	110,000	2,900,000	1,000,000	10,000	15,000	3,900	200	(ug/kg)
Methyl chloride (Chloromethane)	---	---	---	---	---	---	---	(ug/kg)
Methyl ethyl ketone	47,000,000	1,000,000,000	410,000,000	140,000,000	22,000,000	140,000	17,000	(ug/kg)
Methyl isobutyl ketone (MIBK)	---	---	---	---	---	---	---	(ug/kg)
Methyl tert-butyl ether	780,000	20,000,000	140,000	8,800,000	8,800,000	140,000	320	(ug/kg)
Methylene chloride	85,000	760,000	12,000,000	13,000	24,000	34,000	20	(ug/kg)
Styrene	16,000,000	410,000,000	41,000,000	1,500,000	1,500,000	430,000	4,000	(ug/kg)
Tetrachloroethylene	12,000	110,000	2,400,000	11,000	1,500,000	430,000	60	(ug/kg)
trans-1,3-Dichloropropene	6,400	57,000	1,200,000	1,100	2,100	390	4	(ug/kg)
Trichloroethylene	58,000	520,000	1,200,000	5,000	8,900	12,000	60	(ug/kg)
Triphenylene	---			---			---	(mg/kg)
Vinyl chloride	300	7,900	170,000	30	1,100	1,100	10	(ug/kg)

Notes:
ug/kg Micrograms per kilogram
(1) Provisional remediation objective provided by IEPA
----- No remediation objective has been established by the IEPA for this constitiuent for this exposure route

TABLE 5-3
TIER 1 REMEDIAL OBJECTIVES
SVOCs

CONSTITUENT	Ingestion			Inhalation			Soil Component to Groundwater (Class I)	MSA Background Metropolitan Areas	UNITS/DEPTH
	Residential	Commercial	Construction	Residential	Commercial	Construction			
1,2,4-Trichlorobenzene	780	20,000	35	3,200	3,200	920	5		(mg/kg)
2,4,5-Trichlorophenol	7,800	200,000	200,000	---	---	---	270		(mg/kg)
2,4,6-Trichlorophenol	58	520	11,000	200	390	540	0.2		(mg/kg)
2,4-Dichlorophenol	230	6,100	610	---	---	---	1		(mg/kg)
2,4-Dimethylphenol	1,600	41,000	41,000	---	---	---	9		(mg/kg)
2,4-Dinitrophenol	160	4,100	410	---	---	---	0.2		(mg/kg)
2,4-Dinitrotoluene	0.9	---	---	---	---	---	0.0008		(mg/kg)
2,6-Dinitrotoluene	0.9	8.4	180.0	---	---	---	0.0007		(mg/kg)
2-Chloronaphthalene	6,300	160,000	160,000	---	---	---	240		(mg/kg)
2-Chlorophenol	390	10,000	10,000	53,000	53,000	53,000	4		(mg/kg)
2-Methylnaphthalene	2,300	61,000	61,000	---	---	---	29	0.14	(mg/kg)
3,3-Dichlorobenzidine	1	13	280	---	---	---	0.007		(mg/kg)
4,6-Dinitro-o-cresol	---	---	---	---	---	---	---		(mg/kg)
4-Bromophenyl phenyl ether	---	---	---	---	---	---	---		(mg/kg)
4-Chlorophenyl phenyl ether	---	---	---	---	---	---	---		(mg/kg)
Bis(2-chloroethoxy)methane	---	---	---	---	---	---	---		(mg/kg)
Bis(2-chloroethyl)ether	0.6	5.0	75.0	0.2	0.5	0.7	0.0004		(mg/kg)
Bis(2-chloroisopropyl)ether	3,100	82,000	8,200	1,300	1,300	1,300	2.4		(mg/kg)
Bis(2-ethylhexyl)phthalate (BEHP)	46	410	4,100	31,000	31,000	31,000	3,600		(mg/kg)
Butyl benzyl phthalate	16,000	410,000	410,000	930	930	930	930		(mg/kg)
Carbazole	32	290	6,200	---	---	---	0.60		(mg/kg)
Dibenzofuran	310	8,200	820	---	---	---	15		(mg/kg)
Diethyl phthalate	63,000	1,000,000	1,000,000	2,000	2,000	2,000	470		(mg/kg)
Dimethyl phthalate	---	---	---	---	---	---	---		(mg/kg)
Di-n-butyl phthalate	7,800	200,000	200,000	2,300	2,300	2,300	0.0004		(mg/kg)
Di-n-octyl phthalate	1,600	41,000	4,100	10,000	10,000	10,000	10,000		(mg/kg)
Hexachlorobenzene	0.4	4.0	78.0	1	1.8	2.6	2		(mg/kg)
Hexachlorobutadiene	16	410	41	1,000	1,000	180	2.9		(mg/kg)
Hexachlorocyclopentadiene	550	14,000	14,000	10	16	1.1	400		(mg/kg)
Hexachloroethane	78	2,000	2,000	---	---	---	0.5		(mg/kg)
Isophorone	15,600	410,000	410,000	4,600	4,600	4,600	8		(mg/kg)
m & p-Cresol(s)	---	---	---	---	---	---	---		(mg/kg)
m-Dichlorobenzene	---	---	---	---	---	---	---		(mg/kg)
m-Nitroaniline	---	---	---	---	---	---	---		(mg/kg)
Nitrobenzene	39	1,000	1,000	92	140	9.4	0.1		(mg/kg)
N-Nitrosodiphenylamine	130	1,200	25,000	---	---	---	1		(mg/kg)
N-Nitrosodipropylamine	---	---	---	---	---	---	---		(mg/kg)
o-Cresol	3,900	100,000	100,000	---	---	---	15		(mg/kg)
o-Dichlorobenzene	7,000	180,000	560	560	18,000	310	17		(mg/kg)
o-Nitroaniline	---	---	---	---	---	---	---		(mg/kg)
o-Nitrophenol	---	---	---	---	---	---	---		(mg/kg)
p-Chloroaniline	310	8,200	---	---	820	---	0.7		(mg/kg)
p-Chloro-m-cresol	---	---	---	---	---	---	---		(mg/kg)
PCP	3	24	52	---	---	---	0.03		(mg/kg)
p-Dichlorobenzene	---	---	17,000	11,000	---	340	2		(mg/kg)
Phenol	47,000	1,000,000	120,000	---	---	---	100		(mg/kg)
p-Nitroaniline	---	---	---	---	---	---	---		(mg/kg)
p-Nitrophenol	---	---	---	---	---	---	---		(mg/kg)

Notes:
mg/kg Milligrams per kilogram
(1) Provisional remediation objective provided by IEPA
----- No remediation objective has been established by the IEPA for this constitiuent for this exposure route

TABLE 5-4
TIER 1 REMEDIAL OBJECTIVES
METALS AND CYANIDE

CONSTITUENT	Ingestion			Inhalation			Soil Component to Groundwater	
	Residential	Commercial	Construction	Residential	Commercial	Construction	(Class I)*	UNITS/DEPTH
Arsenic	13.0	13.0	61.0	750	1,200	25,000	30	(mg/kg)
Barium	5,500	140,000	14,000	690,000	910,000	870,000	1,800	(mg/kg)
Cadmium	78	2,000	200	1,800	2,800	59,000	59	(mg/kg)
Chromium	230	6,100	4,100	270	420	690	32	(mg/kg)
COD	---	---	---	---	---	---	---	(mg/kg)
Copper	2,900	82,000	8,200	---	---	---	330,000	(mg/kg)
Cyanide	1,600	41,000	4,100	---	---	---	40	(mg/kg)
Iron	---	---	---	---	---	---	---	(mg/kg)
Lead	400	800	700	---	---	---	107	(mg/kg)
Manganese	1,600	41,000	4,100	69,000	91,000	8,700	---	(mg/kg)
Mercury	23	610	61	10	16	0.10	6.4	(mg/kg)
Nickel	1,600	41,000	4,100	13,000	21,000	440,000	700	(mg/kg)
Selenium	390	10,000	1,000	---	---	---	3.3	(mg/kg)
Silver	390	10,000	1,000	---	---	---	39	(mg/kg)
Zinc	23,000	610,000	61,000	---	---	---	16,000	(mg/kg)

Notes:

mg/kg	Milligrams per kilogram
(1)	Provisional remediation objective provided by IEPA
-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
*	Based on an average pH of 7.50 for the site

TABLE 5-5
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 0 TO 3 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-501 B-501-2 7/13/2004 1'-2'	B-502 B-502-3 7/13/2004 2'-3'	B-503 B-503-3 7/13/2004 2'-3'	B-504 B-504-3 7/13/2004 2'-3'	B-505 B-505-3 7/14/2004 2'-3'	B-506 B-506-3 7/22/2004 2'-3'	B-507 B-507-1 7/21/2004 0-1'	B-508 B-508-3 7/19/2004 2'-3'	B-509 B-509-3 7/21/2004 2'-3'	B-510 B-510-2 7/12/2004 1'-2'	B-512 B-512-3 7/12/2004 2'-3'
Benzene	(ug/kg)	1.9	3.4	13900	87.7	47.7	3820	5	28.2	14.2	31.2	8.3
Ethylbenzene	(ug/kg)	<1.1	2.1	4240	32.1	149	1390	1.1	1.8	4	2.2	1.3
Toluene	(ug/kg)	<1.1	5.5	6280	38.3	31.3	3320	3.9	7.1	11.2	7.6	4.9
Xylene (total)	(ug/kg)	<1.1	6.5	9920	65.3	139	5480	3.2	6.3	11.2	8.1	3.8
Acenaphthene	(ug/kg)	<12	<29	<44000	610	6900	1300	110	390	<120	<2300	330
Acenaphthylene	(ug/kg)	78	34	<49000	150	70000	18000	1000	5400	1200	<2500	1230
Anthracene	(ug/kg)	41	<29	51000	460	15000	4500	510	1700	330	<2200	1740
Benzo(a)anthracene	(ug/kg)	270	110	69000	250	45000	18000	950	5900	1500	2900	2870
Benzo(a)pyrene	(ug/kg)	360	160	67000	190	140000	49000	2000	23000	3300	3200	2940
Benzo(b)fluoranthene	(ug/kg)	490	230	76000	210	120000	56000	1700	19000	3500	4500	4310
Benzo(ghi)perylene	(ug/kg)	210	120	<41000	64	38000	17000	650	7400	1600	<2200	1340
Benzo(k)fluoranthene	(ug/kg)	190	84	<36000	86	33000	16000	530	4500	1000	<1800	1500
Chrysene	(ug/kg)	320	120	62000	240	47000	23000	1100	8100	2000	3600	3230
Dibenzo(a,h)anthracene	(ug/kg)	61	<29	<36000	25	13000	5200	170	1800	410	<1900	430
Fluoranthene	(ug/kg)	440	110	120000	680	37000	18000	1500	8200	2000	3700	7830
Fluorene	(ug/kg)	<12	<29	<43000	430	9900	2800	250	750	120	<2200	1070
Indeno(1,2,3-cd)pyrene	(ug/kg)	240	84	<39000	81	41000	17000	610	6300	1400	<2000	1620
Naphthalene	(ug/kg)	33	120	71000	6800	21000	11000	600	1200	290	<2700	580
Phenanthrene	(ug/kg)	170	78	130000	1100	18000	10000	1800	2900	820	2000	5990
Pyrene	(ug/kg)	440	140	110000	520	96000	30000	2300	16000	3100	5800	6020

Notes:
- ug/kg — Micrograms per kilogram
- (1) — Provisional remediation objective provided by IEPA
- ----- — No remediation objective has been established by the IEPA for this constitiuent for this exposure route
- <12 — Not detected at the level identified
- Analytical result exceeds one or more Tier 1 RO.

TABLE 5-5
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 0 TO 3 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-513 B-513-2 7/12/2004 1'-2'	B-514 B-514-3 7/22/2004 2'-3'	B-515 B-515-2 7/16/2004 1'-2'	B-516 B-516-3 7/22/2004 2'-3'	B-550 B-550-3 7/20/2004 2'-3'	B-551 B-551-3 7/15/2004 2'-3'	B-553 B-553-3 7/14/2004 2'-3'	B-554 B-554-3 7/15/2004 2'-3'	B-556 B-556-3 7/20/2004 2'-3'	B-557 B-557-1 7/20/2004 0-1'	B-558 B-558-2 7/19/2004 1'-2'
Benzene	(ug/kg)	7.6	32.6	4.3	5.1	5.8	972	195	180	10.3	5.3	2.3
Ethylbenzene	(ug/kg)	<1.1	17.4	21.3	5.4	13.6	282	200	256	11.5	2.1	4.5
Toluene	(ug/kg)	3.2	10.3	3	4.5	3.8	244	370	211	26.2	3.6	7.2
Xylene (total)	(ug/kg)	1.8	25.4	26.4	6.5	25.9	276	456	624	41.6	5.2	11.8
Acenaphthene	(ug/kg)	52	<1900	1100	<1800	<12000	3700	8500	<3000	1400	170	<450
Acenaphthylene	(ug/kg)	100	2600	1900	40000	<13000	14000	26000	9200	5900	880	<500
Anthracene	(ug/kg)	220	2400	1000	9700	<11000	20000	8400	<2800	4400	620	<420
Benzo(a)anthracene	(ug/kg)	800	4600	2200	42000	<9400	52000	10000	<2400	6400	3600	450
Benzo(a)pyrene	(ug/kg)	820	5900	4000	120000	<8600	68000	55000	8500	18000	5200	500
Benzo(b)fluoranthene	(ug/kg)	1300	7600	4400	130000	<8800	83000	50000	8200	13000	6000	610
Benzo(ghi)perylene	(ug/kg)	310	3800	1300	50000	<11000	28000	26000	8500	6100	2700	<420
Benzo(k)fluoranthene	(ug/kg)	490	2700	1300	36000	<9300	25000	12000	<2400	3700	1900	<360
Chrysene	(ug/kg)	930	4900	2800	62000	<9900	51000	18000	4300	7900	3800	450
Dibenzo(a,h)anthracene	(ug/kg)	120	<1500	350	14000	<9500	9000	5000	<2500	1500	720	<370
Fluoranthene	(ug/kg)	1700	6300	3300	27000	19000	93000	17000	4600	9200	6300	690
Fluorene	(ug/kg)	51	1900	720	4000	12000	7100	7800	<2900	3900	110	<440
Indeno(1,2,3-cd)pyrene	(ug/kg)	400	3400	1200	47000	<10000	33000	21000	4400	5300	2500	<400
Naphthalene	(ug/kg)	52	<2200	1800	10000	<14000	8400	2200	<3500	5300	980	<530
Phenanthrene	(ug/kg)	840	6500	3300	8700	14000	47000	9400	3300	9900	2800	<380
Pyrene	(ug/kg)	1300	8500	5700	67000	21000	76000	27000	8500	18000	6000	650

Notes:
- ug/kg — Micrograms per kilogram
- (1) — Provisional remediation objective provided by IEPA
- ----- — No remediation objective has been established by the IEPA for this constitiuent for this exposure route
- <12 — Not detected at the level identified
- Analytical result exceeds one or more Tier 1 RO.

TABLE 5-5
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 0 TO 3 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-559 B-559-3 7/19/2004 2'-3'	B-560 B-560-3 7/16/2004 2'-3'	B-561 B-561-1 7/15/2004 0-1'	B-562 B-562-1 7/15/2004 0-1'	CSS-1 12/18/1990 0-6"	CSS-2 12/18/1990 0-6"	CSS-3 12/18/1990 0-6"	CSS-4 12/18/1990 0-6"	CSS-5 12/19/1990 0-6"	TP-503 TP-503-3 7/8/2004 3'	TP-504 TP-504-3 7/8/2004 3'
Benzene	(ug/kg)	0.7	61.9	4.6	8.7	---	---	---	---	---	14500	10500
Ethylbenzene	(ug/kg)	<1.0	2.3	3.2	3.7	---	---	---	---	---	45600	74000
Toluene	(ug/kg)	<1.0	12.6	4.4	8.6	<310	<310	<310	410	<310	1430	3870
Xylene (total)	(ug/kg)	2	6.7	8.6	9.9	<310	<310	<310	660	<310	42400	91700
Acenaphthene	(ug/kg)	<24	180	<320	76	<5	63	5200	470	<5	150000	15000
Acenaphthylene	(ug/kg)	<24	8400	1000	510	<8	320	1900	3300	<8	130000	28000
Anthracene	(ug/kg)	<24	1300	570	260	59	870	1000	2200	9	90000	14000
Benzo(a)anthracene	(ug/kg)	140	8600	2300	1400	450	3700	3600	9700	99	40000	9600
Benzo(a)pyrene	(ug/kg)	190	36000	4100	2300	390	2900	2800	10000	39	37000	10000
Benzo(b)fluoranthene	(ug/kg)	270	27000	5500	3700	770	3500	4400	13000	150	21000	4800
Benzo(ghi)perylene	(ug/kg)	110	13000	2100	540	400	1900	6300	9900	100	11000	2800
Benzo(k)fluoranthene	(ug/kg)	88	7900	2000	1400	390	1200	1600	4200	140	13000	2500
Chrysene	(ug/kg)	150	11000	3400	1700	480	2900	3200	8100	160	48000	11000
Dibenzo(a,h)anthracene	(ug/kg)	42	4200	610	180	69	580	530	2600	17	8500	2100
Fluoranthene	(ug/kg)	190	11000	4700	2400	820	4700	3300	9900	240	220000	50000
Fluorene	(ug/kg)	<24	980	340	93	44	360	300	400	<0.6	130000	22000
Indeno(1,2,3-cd)pyrene	(ug/kg)	110	12000	2200	640	410	2000	2900	9900	130	11000	2700
Naphthalene	(ug/kg)	37	1900	450	230	<5	110	330	470	<5	590000	83000
Phenanthrene	(ug/kg)	67	3000	2100	860	390	3100	2200	3700	83	340000	72000
Pyrene	(ug/kg)	170	32000	4200	2200	570	4700	5300	15000	250	120000	32000

Notes:
- ug/kg — Micrograms per kilogram
- (1) — Provisional remediation objective provided by IEPA
- ----- — No remediation objective has been established by the IEPA for this constitiuent for this exposure route
- <12 — Not detected at the level identified
- Analytical result exceeds one or more Tier 1 RO.

TABLE 5-6
TIER 1 COMPARISON VOC RESULTS FOR 0 TO 3 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-503 B-503-3 7/13/2004 2'-3'	B-510 B-510-2 7/12/2004 1'-2'	B-514 B-514-3 7/22/2004 2'-3'	B-550 B-550-3 7/20/2004 2'-3'	B-554 B-554-3 7/15/2004 2'-3'	B-558 B-558-2 7/19/2004 1'-2'
1,1,1-Trichloroethane	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
1,1,2,2-Tetrachloroethane	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
1,1,2-Trichloroethane	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
1,1-Dichloroethane	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
1,1-Dichloroethylene	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
1,2-Dichloroethane	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
1,2-Dichloropropane	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
2-Hexanone	(ug/kg)	<1730	<12.2	<11.8	<15.5	<360	<14.0
Acetone	(ug/kg)	<1730	38	126	212	<360	91.6
Bromodichloromethane	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Bromoform	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Carbon Disulfide	(ug/kg)	<520	<3.6	10.9	11.1	<108	<4.2
Carbon tetrachloride	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Chlorobenzene	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Chloroethane	(ug/kg)	<347	<2.4	<2.4	<3.1	<72.0	<2.8
Chloroform	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
cis-1,2-Dichloroethylene	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
cis-1,3-Dichloropropene	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Dibromochloromethane	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Ethene, 1,2-dichloro-, (E)-	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Methyl bromide	(ug/kg)	<347	<2.4	<2.4	<3.1	<72.0	<2.8
Methyl chloride (Chloromethane)	(ug/kg)	<347	<2.4	<2.4	<3.1	<72.0	<2.8
Methyl ethyl ketone	(ug/kg)	<1730	<12.2	<11.8	30	720	<14.0
Methyl isobutyl ketone (MIBK)	(ug/kg)	<1730	<12.2	<11.8	<15.5	<360	<14.0
Methyl tert-butyl ether	(ug/kg)	<86.6	<0.6	<0.6	<0.8	<18.0	<0.7
Methylene chloride	(ug/kg)	<173	<1.2	1.6	<1.6	<36.0	1.5
Styrene	(ug/kg)	<173	<1.2	3.2	<1.6	<36.0	<1.4
Tetrachloroethylene	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
trans-1,3-Dichloropropene	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Trichloroethylene	(ug/kg)	<173	<1.2	<1.2	<1.6	<36.0	<1.4
Vinyl chloride	(ug/kg)	<86.6	<0.6	<0.6	<0.8	<18.0	<0.7

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-7
SURFACE SOIL SVOC RESULTS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/DEPTH	B-503 B-503-3 7/13/2004 2'-3'	B-510 B-510-2 7/12/2004 1'-2'	B-514 B-514-3 7/22/2004 2'-3'	B-550 B-550-3 7/20/2004 2'-3'	B-554 B-554-3 7/15/2004 2'-3'	B-558 B-558-2 7/19/2004 1'-2'
1,2,4-Trichlorobenzene	(mg/kg)	<50.3	<2.62	<2.12	<13.1	<3.43	<0.515
2,4,5-Trichlorophenol	(mg/kg)	<35.9	<1.87	<1.52	<9.37	<2.45	<0.368
2,4,6-Trichlorophenol	(mg/kg)	<47.7	<2.48	<2.01	<12.4	<3.25	<0.488
2,4-Dichlorophenol	(mg/kg)	<45.8	<2.38	<1.93	<11.9	<3.12	<0.469
2,4-Dimethylphenol	(mg/kg)	<48.0	<2.50	<2.03	<12.5	<3.27	<0.492
2,4-Dinitrophenol	(mg/kg)	<40.5	<2.11	<1.71	<10.6	<2.76	<0.414
2,4-Dinitrotoluene	(mg/kg)	<39.3	<2.05	<1.66	<10.3	<2.68	<0.403
2,6-Dinitrotoluene	(mg/kg)	<40.9	<2.13	<1.72	<10.7	<2.78	<0.418
2-Chloronaphthalene	(mg/kg)	<45.4	<2.36	<1.91	<11.8	<3.09	<0.465
2-Chlorophenol	(mg/kg)	<48.0	<2.50	<2.03	<12.5	<3.27	<0.492
2-Methylnaphthalene	(mg/kg)	<45.0	<2.30	<1.90	<12.0	<3.10	<0.460
3,3-Dichlorobenzidine	(mg/kg)	<32.5	<1.69	<1.37	<8.48	<2.22	<0.333
4,6-Dinitro-o-cresol	(mg/kg)	<40.9	<2.13	<1.72	<10.7	<2.78	<0.418
4-Bromophenyl phenyl ether	(mg/kg)	<34.8	<1.81	<1.47	<9.07	<2.37	<0.356
4-Chlorophenyl phenyl ether	(mg/kg)	<37.4	<1.95	<1.58	<9.76	<2.55	<0.383
Bis(2-chloroethoxy)methane	(mg/kg)	<44.3	<2.30	<1.87	<11.5	<3.02	<0.453
Bis(2-chloroethyl)ether	(mg/kg)	<53.7	<2.80	<2.27	<14.0	<3.66	<0.550
Bis(2-chloroisopropyl)ether	(mg/kg)	<43.1	<2.24	<1.82	<11.2	<2.94	<0.441
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	<44.0	<2.30	<1.90	<12.0	<3.00	<0.450
Butyl benzyl phthalate	(mg/kg)	<38.2	<1.99	<1.61	<9.96	<2.60	<0.391
Carbazole	(mg/kg)	<46.0	<2.40	<2.00	<12.0	<3.10	<0.470
Dibenzofuran	(mg/kg)	<48.0	<2.50	<2.00	<12.0	<3.20	<0.490
Diethyl phthalate	(mg/kg)	<36.3	<1.89	<1.53	<9.47	<2.47	<0.372
Dimethyl phthalate	(mg/kg)	<34.4	<1.79	<1.45	<8.98	<2.35	<0.352
Di-n-butyl phthalate	(mg/kg)	<39.0	<2.03	<1.64	<10.2	<2.66	<0.399
Di-n-octyl phthalate	(mg/kg)	<39.3	<2.05	<1.66	<10.3	<2.68	<0.403
Hexachlorobenzene	(mg/kg)	<37.1	<1.93	<1.56	<9.67	<2.53	<0.379
Hexachlorobutadiene	(mg/kg)	<58.6	<3.05	<2.47	<15.3	<4.00	<0.600
Hexachlorocyclopentadiene	(mg/kg)	<38.6	<2.01	<1.63	<10.1	<2.63	<0.395
Hexachloroethane	(mg/kg)	<63.2	<3.29	<2.67	<16.5	<4.31	<0.647
Isophorone	(mg/kg)	<44.6	<2.32	<1.88	<11.6	<3.04	<0.457
m & p-Cresol(s)	(mg/kg)	<47.7	<2.48	<2.01	<12.4	<3.25	<0.488
m-Dichlorobenzene	(mg/kg)	<63.5	<3.31	<2.68	<16.6	<4.33	<0.651
m-Nitroaniline	(mg/kg)	<31.0	<1.61	<1.31	<8.09	<2.11	<0.318
Nitrobenzene	(mg/kg)	<47.3	<2.46	<1.99	<12.3	<3.22	<0.484
N-Nitrosodiphenylamine	(mg/kg)	<34.8	<1.81	<1.47	<9.07	<2.37	<0.356
N-Nitrosodipropylamine	(mg/kg)	<41.6	<2.17	<1.76	<10.8	<2.84	<0.426
o-Cresol	(mg/kg)	<44.6	<2.32	<1.88	<11.6	<3.04	<0.457
o-Dichlorobenzene	(mg/kg)	<60.1	<3.13	<2.54	<15.7	<4.10	<0.616
o-Nitroaniline	(mg/kg)	<34.4	<1.79	<1.45	<8.98	<2.35	<0.352
o-Nitrophenol	(mg/kg)	<42.4	<2.21	<1.79	<11.0	<2.89	<0.434
p-Chloroaniline	(mg/kg)	<45.8	<2.38	<1.93	<11.9	<3.12	<0.469
p-Chloro-m-cresol	(mg/kg)	<41.6	<2.17	<1.76	<10.8	<2.84	<0.426
PCP	(mg/kg)	<250	<13.0	<10.5	<65.1	<17.0	<2.56
p-Dichlorobenzene	(mg/kg)	<60.1	<3.13	<2.54	<15.7	<4.10	<0.616
Phenol	(mg/kg)	<43.9	<2.28	<1.85	<11.4	<2.99	<0.449
p-Nitroaniline	(mg/kg)	<34.4	<1.79	<1.45	<8.98	<2.35	<0.352
p-Nitrophenol	(mg/kg)	<37.1	<1.93	<1.56	<9.67	<2.53	<0.379

Notes:		
	mg/kg	Milligrams per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-8
TIER 1 COMPARISON - METALS and CYANIDE RESULTS FOR 0 TO 3 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/DEPTH	Tier 1 Remediation Objectives	B-501 B-501-2 7/13/2004 1'-2'	B-502 B-502-3 7/13/2004 2'-3'	B-503 B-503-3 7/13/2004 2'-3'	B-504 B-504-3 7/13/2004 2'-3'	B-505 B-505-3 7/14/2004 2'-3'	B-506 B-506-3 7/22/2004 2'-3'	B-507 B-507-1 7/21/2004 0-1'	B-508 B-508-3 7/19/2004 2'-3'	B-509 B-509-3 7/21/2004 2'-3'	B-510 B-510-2 7/12/2004 1'-2'	B-512 B-512-3 7/12/2004 2'-3'	B-513 B-513-2 7/12/2004 1'-2'	B-514 B-514-3 7/22/2004 2'-3'	B-515 B-515-2 7/16/2004 1'-2'
Arsenic	(mg/kg)		9.28	58.5	8.31	15.4	4.5	14.7	10.1	22.5	13	10.8	21.6	13.6	11.3	11.5
Barium	(mg/kg)		143	58.3	99.6	152	27.1	113	141	96.4	184	84.6	98	129	128	136
Cadmium	(mg/kg)		0.28	0.5	0.3	1.68	0.58	0.14	0.22	0.55	1.03	0.58	1.01	0.36	0.29	0.36
Chromium	(mg/kg)		19.6	8.81	18.1	13.6	12.6	15.7	16	13.2	18.3	16	26.7	22.4	15.7	14
COD	(mg/kg)		---	---	---	---	---	---	---	---	---	---	---	---	---	---
Copper	(mg/kg)		---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cyanide	(mg/kg)		1.38	1.02	11.7	55.5	25.2	2.31	2.15	2.51	2.74	6.43	68.4	17	16.6	3.68
Iron	(mg/kg)		---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	(mg/kg)		58	21.7	202	221	552	177	60.8	49.8	164	128	158	470	113	36.1
Manganese	(mg/kg)		---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	(mg/kg)		0.215	0.037	0.167	0.338	0.061	0.695	0.084	0.174	0.252	0.432	0.291	0.352	4.2	0.091
Nickel	(mg/kg)		---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	(mg/kg)		**<4.00**	**<3.85**	**<4.00**	**<3.92**	**<4.00**	**<3.85**	**<3.85**	**<3.85**	**<4.00**	**<3.85**	**<3.92**	**<4.00**	**<3.85**	**<3.77**
Silver	(mg/kg)		<1.00	<0.96	<1.00	<0.98	<1.00	<0.96	<0.96	<0.96	<1.00	<0.96	<0.98	<1.00	<0.96	<0.94
Zinc	(mg/kg)		---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

mg/kg	Milligrams per kilogram
-1	Provisional remediation objective provided by IEPA
-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
<12	Not detected at the level identified
*	Based on an average pH of 7.50 for the site
	Analytical result exceeds one or more Tier 1 RO
<0.05	Detection limit greater than RO due to dilution

TABLE 5-8
TIER 1 COMPARISON - METALS and CYANIDE RESULTS FOR 0 TO 3 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/DEPTH	Tier 1 Remediation Objectives	B-516 B-516-3 7/22/2004 2'-3'	B-550 B-550-3 7/20/2004 2'-3'	B-551 B-551-3 7/15/2004 2'-3'	B-553 B-553-3 7/14/2004 2'-3'	B-554 B-554-3 7/15/2004 2'-3'	B-556 B-556-3 7/20/2004 2'-3'	B-557 B-557-1 7/20/2004 0-1'	B-558 B-558-2 7/19/2004 1'-2'	B-559 B-559-3 7/19/2004 2'-3'	B-560 B-560-3 7/16/2004 2'-3'	B-561 B-561-1 7/15/2004 0-1'	B-562 B-562-1 7/15/2004 0-1'	CSS-1 12/18/1990 0-6"	CSS-2 12/18/1990 0-6"	CSS-3 12/18/1990 0-6"	CSS-4 12/18/1990 0-6"
Arsenic	(mg/kg)	28.7	11.6	10.7	<2.40	19.3	2.2	9.68	12.6	9.93	12.5	37.2	31.7	6	5	3	5
Barium	(mg/kg)	134	45.6	60.5	20.1	207	59.8	102	164	139	177	135	212	93	89	82	69
Cadmium	(mg/kg)	1.36	2.04	0.39	<0.19	0.97	0.13	0.59	0.64	0.15	1.38	1.59	2	1	<0.5	1	1
Chromium	(mg/kg)	40.3	22.3	10.3	7.23	16.3	9.54	15.6	16.9	16	16.7	19.4	19.1	9	9	6	7
COD	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---	---	52000	47000	47000	46000
Copper	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---	---	18	20	17	19
Cyanide	(mg/kg)	41.6	9.82	3	1.81	3.01	2.98	1.01	1.37	0.46	2.47	0.64	0.81	1	<0.25	7	2
Iron	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---	---	12000	12000	14000	12000
Lead	(mg/kg)	165	32.1	50.6	8.5	252	55.7	184	48.6	56.7	110	358	390	130	59	80	200
Manganese	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---	---	390	380	830	630
Mercury	(mg/kg)	0.491	0.076	0.281	0.005	0.076	0.075	0.133	0.082	0.058	0.21	0.344	0.227	0.14	<0.13	---	3
Nickel	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---	---	13	12	12	10
Selenium	(mg/kg)	**<4.00**	**<4.00**	**<3.92**	**<3.85**	**<3.64**	**<3.85**	**<3.85**	**<3.92**	**<3.64**	**<3.85**	**<3.92**	**<4.00**	---	---	---	---
Silver	(mg/kg)	<1.00	<1.00	<0.98	<0.96	<0.91	<0.96	<0.96	<0.98	<0.91	<0.96	<0.98	<1.00	---	---	---	---
Zinc	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---	---	110	74	74	95

Notes:

mg/kg	Milligrams per kilogram
-1	Provisional remediation objective provided by IEPA
-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
<12	Not detected at the level identified
*	Based on an average pH of 7.50 for the site
	Analytical result exceeds one or more Tier 1 RO
<0.05	Detection limit greater than RO due to dilution

TABLE 5-8
TIER 1 COMPARISON - METALS and CYANIDE RESULTS FOR 0 TO 3 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Tier 1 Remediation Objectives		CSS-5	UTP-01	UTP-02	UTP-03	UTP-04	UTP-08	UTP-09
CONSTITUENT		12/19/1990	12/17/1991	12/17/1991	12/17/1991	12/17/1991	12/17/1991	12/17/1991
	UNITS/DEPTH	**0-6"**	**1**	**1.25**	**1.42**	**1**	**1**	**0.83**
Arsenic	(mg/kg)	5	6	9	9	15	4	21
Barium	(mg/kg)	91	100	110	99	61	120	120
Cadmium	(mg/kg)	<0.5	1	1	1	1	<0.5	<0.5
Chromium	(mg/kg)	13	15	37	13	19	30	26
COD	(mg/kg)	23000	---	---	---	---	---	---
Copper	(mg/kg)	10	10	92	41	18	260	38
Cyanide	(mg/kg)	<0.25	2	33	33	2900	620	3800
Iron	(mg/kg)	15000	13000	16000	9500	46000	100000	110000
Lead	(mg/kg)	20	18	130	47	300	11000	1800
Manganese	(mg/kg)	530	730	71	340	170	430	330
Mercury	(mg/kg)	<0.4	<0.13	1	---	1	3	1
Nickel	(mg/kg)	14	15	8	11	8	12	10
Selenium	(mg/kg)	---	---	---	---	---	---	---
Silver	(mg/kg)	---	---	---	---	---	---	---
Zinc	(mg/kg)	47	41	64	89	46	230	110

Notes:

mg/kg	Milligrams pe — Milligrams per kilogram
-1	Provisional re — Provisional remediation objective provided by IEPA
-----	No remediatic — No remediation objective has been established by the IEPA for this constituent for t
<12	Not detected — Not detected at the level identified
*	Based on an — Based on an average pH of 7.50 for the site
	Analytical res — Analytical result exceeds one or more Tier 1 RO
<0.05	Detection lim — Detection limit greater than RO due to dilution

TABLE 5-9
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 3 TO 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/ DEPTH	B-501 B-501-8 7/13/2004 7'-8'	B-502 B-502-7 7/13/2004 6'-7'	B-503 B-503-10 7/13/2004 9'-10'	B-504 B-504-7 7/13/2004 6'-7'	B-505 B-505-6 7/14/2004 5'-6'	B-506 B-506-7 7/22/2004 6'-7'	B-507 B-507-8 7/21/2004 7'-8'	B-508 B-508-9 7/19/2004 8'-9'	B-509 B-509-8 7/21/2004 7'-8'	B-510 B-510-5 7/12/2004 4'-5'	B-512 B-512-8 7/12/2004 7'-8'	B-513 B-513-8 7/12/2004 7'-8'	B-514 B-514-8 7/22/2004 7'-8'	B-515 B-515-7 7/16/2004 6'-7'	B-516 B-516-5 7/22/2004 4'-5'	B-550 B-550-9 7/20/2004 8'-9'	B-551 B-551-10 7/15/2004 9'-10'
Benzene	(ug/kg)	183	10900	534	20800	14500	11200	3510	2080	4.6	4.3	<12.2	<10.1	3100	9030	656	610	1260
Ethylbenzene	(ug/kg)	41	5660	523	145000	79800	46200	22200	33100	3.8	<1.0	<24.4	36	23500	59100	4720	1260	13600
Toluene	(ug/kg)	<24.6	220	300	10900	3800	740	280	575	1.4	1.7	<24.4	<20.2	446	2450	289	55	69
Xylene (total)	(ug/kg)	41	11000	837	140000	69900	33700	16600	24300	12	1.3	<24.4	44	19800	40700	1480	623	5720
Acenaphthene	(ug/kg)	50	16000	1600	590000	540000	170000	53000	51000	9800	<31	0.3	1600	48000	270000	7500	5300	23000
Acenaphthylene	(ug/kg)	240	2700	320	71000	81000	12000	3600	5800	4700	150	<0.163	2000	8800	34000	5000	790	3000
Anthracene	(ug/kg)	180	12000	1400	300000	280000	71000	24000	22000	7200	67	0.15	2800	19000	100000	3800	2600	13000
Benzo(a)anthracene	(ug/kg)	180	8700	630	170000	140000	33000	9500	12000	9400	500	<0.120	1200	11000	65000	7200	1600	9600
Benzo(a)pyrene	(ug/kg)	270	4100	520	130000	140000	35000	12000	10000	8700	510	<0.110	950	13000	88000	16000	1800	12000
Benzo(b)fluoranthene	(ug/kg)	250	18000	630	110000	130000	29000	7900	7900	6800	710	<0.112	820	8900	66000	13000	1400	11000
Benzo(ghi)perylene	(ug/kg)	63	4000	110	<50000	31000	7200	2400	4500	2800	280	<0.138	420	2800	26000	5000	410	3500
Benzo(k)fluoranthene	(ug/kg)	97	5600	240	<43000	45000	7400	2300	3100	2500	220	<0.119	280	2600	25000	4200	410	4200
Chrysene	(ug/kg)	170	19000	650	150000	140000	33000	8800	11000	9000	590	<0.126	1100	11000	74000	8400	1600	10000
Dibenzo(a,h)anthracene	(ug/kg)	<30	1900	45	<44000	10000	2300	720	<3000	<620	74	<0.121	110	850	11000	1300	160	1000
Fluoranthene	(ug/kg)	340	17000	1800	320000	290000	78000	26000	23000	18000	650	<0.120	2100	24000	150000	7600	2600	20000
Fluorene	(ug/kg)	330	20000	1200	410000	400000	90000	35000	30000	13000	48	0.31	4200	36000	150000	5500	4400	15000
Indeno(1,2,3-cd)pyrene	(ug/kg)	64	4700	130	<47000	35000	6000	2300	3500	2400	230	<0.131	430	2700	27000	4500	370	3700
Naphthalene	(ug/kg)	<30	59000	16000	2000000	2300000	790000	170000	140000	<880	33	<0.173	<66	100000	510000	24000	2700	46000
Phenanthrene	(ug/kg)	38	50000	3500	1100000	920000	250000	77000	64000	37000	210	0.644	9300	72000	340000	12000	9600	41000
Pyrene	(ug/kg)	500	25000	1500	440000	400000	110000	37000	33000	25000	1000	0.15	3200	33000	190000	14000	3800	21000

Notes:

ug/kg	Micrograms per kilogram
(1)	Provisional remediation objective provided by IEPA
-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
<12	Not detected at the level identified
	Analytical result exceeds one or more Tier 1 RO

TABLE 5-9
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 3 TO 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/ DEPTH	B-553 B-553-6 7/14/2004 5'-6'	B-554 B-554-10 7/15/2004 9'-10'	B-556 B-556-6 7/20/2004 5'-6'	B-557 B-557-10 7/20/2004 9'-10'	B-558 B-558-7 7/19/2004 6'-7'	B-559 B-559-8 7/19/2004 7'-8'	B-560 B-560-5 7/16/2004 4'-5'	B-561 B-561-10 7/15/2004 9'-10'	B-562 B-562-10 7/15/2004 9'-10'	TP-501 TP-501-7 7/8/2004 7'	TP-503A TP-503A-3.5 7/8/2004 3.5'	TP-507 TP-507-3.5 7/7/2004 3.5'	TP-508 TP-508-4 7/8/2004 4'	UTB-08B UTB-08-01 11/28/1990 4'-9'	UTB-08 UTB-08-02 11/28/1990 9'-13'	UTB-10 UTB-10-01 11/30/1990 9'-10'	UTB-11 UTB-11-01 12/3/1990 8'-13'
Benzene	(ug/kg)	4050	765	2770	7.1	52.5	<12.8	12	1250	286	438	12800	13200	6400	<310	<310	<310	7900
Ethylbenzene	(ug/kg)	20800	3910	19900	7.4	66	<25.6	1.9	1380	1590	30600	14600	64100	57000	<310	<310	3200	4300
Toluene	(ug/kg)	811	2700	<206	2	134	<25.6	3.9	110	726	<220	2560	3750	7340	<310	<310	<310	22000
Xylene (total)	(ug/kg)	19300	6120	12200	13.4	221	46	3.9	3540	1660	16600	14900	92600	76000	<310	<310	3100	20000
Acenaphthene	(ug/kg)	280000	77000	64000	320	8100	<150	380	9100	28000	18000	3000	55000	330000	<330	<330	16000	3500
Acenaphthylene	(ug/kg)	27000	7300	4200	130	2400	<160	6100	1600	3500	6800	780	57000	240000	<330	<330	5100	12000
Anthracene	(ug/kg)	170000	29000	28000	180	6800	<140	1200	4800	14000	8100	870	30000	110000	<330	<330	18000	14000
Benzo(a)anthracene	(ug/kg)	120000	13000	12000	140	3200	<120	7200	2500	6100	4700	1500	23000	64000	<330	<330	9900	8400
Benzo(a)pyrene	(ug/kg)	120000	14000	12000	160	3500	<110	25000	2000	6100	5200	2900	21000	50000	<330	<330	5500	4300
Benzo(b)fluoranthene	(ug/kg)	130000	13000	8700	130	2800	<110	20000	1400	4500	2300	1500	12000	56000	<330	<330	5000	8200
Benzo(ghi)perylene	(ug/kg)	29000	2200	5000	54	930	<140	6700	840	1600	1300	1300	7900	13000	<330	<330	2900	<1600
Benzo(k)fluoranthene	(ug/kg)	50000	4700	2400	39	820	<120	7500	590	1500	1600	750	6900	13000	<330	<330	1600	<1600
Chrysene	(ug/kg)	120000	14000	13000	140	3100	<130	9000	2400	6000	5700	1700	27000	66000	<330	<330	10000	7100
Dibenzo(a,h)anthracene	(ug/kg)	9700	790	1300	20	360	<120	1700	<570	<630	1200	<110	<93	9100	<330	<330	580	<1600
Fluoranthene	(ug/kg)	300000	32000	27000	330	7300	<120	7500	5000	14000	20000	2900	89000	300000	<330	<330	17000	18000
Fluorene	(ug/kg)	180000	42000	26000	200	8900	<140	550	6300	18000	13000	750	49000	210000	<330	<330	20000	14000
Indeno(1,2,3-cd)pyrene	(ug/kg)	34000	1900	4300	48	860	<130	6000	<620	1500	1500	1400	7200	14000	<330	<330	2900	<1600
Naphthalene	(ug/kg)	880000	1800	200000	14	<130	<180	2600	23000	39000	18000	9200	240000	710000	<330	<330	87000	100000
Phenanthrene	(ug/kg)	540000	91000	90000	1100	22000	<120	3200	14000	45000	32000	2900	140000	500000	<330	<330	56000	39000
Pyrene	(ug/kg)	340000	42000	40000	500	12000	<120	23000	7400	20000	14000	2700	63000	180000	<330	<330	32000	12000

Notes:

ug/kg	Micrograms per kilogram
(1)	Provisional remediation objective provided by IEPA
-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
<12	Not detected at the level identified
	Analytical result exceeds one or more Tier 1 RO

TABLE 5-9
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 3 TO 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/ DEPTH	UTB-14 UTB-14-01 12/5/1990 4'-5'	UTB-15 UTB-15-S01 12/13/1991 9'-11'	UTB-16 UTB-16-01 12/6/1990 8'-10'	UTB-18 UTB-18-01 12/7/1990 4.5'-5'	UTB-20 UTB-20-S01 12/11/1991 7'-8'	UTB-21 UTB-21-S01 12/12/1991 3'-8'	UTB-22 UTB-22-S01 12/12/1991 6'-8'	UTB-23 UTB-23-S01 12/14/1991 6'-8'	UTB-24 UTB-24-S01 12/15/1991 6'-8'	UTB-25 UTB-25-S01 12/14/1991 9'-11'	UTB-26 UTB-26-S01 12/15/1991 6'-8'	UTB-27 UTB-27-S01 12/16/1991 6'-8
Benzene	(ug/kg)	<310	**360**	5600	<310	<310	<3100	<310	56000	<3100	2700	580	12000
Ethylbenzene	(ug/kg)	<310	1800	20000	<310	<310	20000	<310	82000	8200	9500	20000	7400
Toluene	(ug/kg)	<310	<310	7200	<310	<310	8800	<310	54000	<3100	4000	<310	22000
Xylene (total)	(ug/kg)	330	1700	60000	<310	<310	<3100	<310	100000	5600	12000	2300	35000
Acenaphthene	(ug/kg)	38000	32000	110000	<490	120	46000	<100	390000	100000	53000	17000	29000
Acenaphthylene	(ug/kg)	<19000	3300	<39000	<490	160	1300	<160	<4000	35000	13000	<1600	11000
Anthracene	(ug/kg)	34000	15000	67000	<490	<0.7	18000	<14	230000	42000	37000	8100	34000
Benzo(a)anthracene	(ug/kg)	24000	8700	48000	<490	66	17000	<86	160000	29000	13000	4300	21000
Benzo(a)pyrene	(ug/kg)	20000	7400	28000	<490	<7.7	12000	<150	250000	640000	6800	4300	14000
Benzo(b)fluoranthene	(ug/kg)	22000	7300	28000	<490	<1	12000	<20	180000	15000	5200	4500	13000
Benzo(ghi)perylene	(ug/kg)	<19000	4800	<39000	<490	<4.7	10000	<94	160000	17000	5600	12000	11000
Benzo(k)fluoranthene	(ug/kg)	<19000	2300	<39000	<490	<0.4	<80	<8	170000	3600	2000	3400	4800
Chrysene	(ug/kg)	26000	9000	44000	<490	<1	11000	<20	250000	18000	8100	4100	17000
Dibenzo(a,h)anthracene	(ug/kg)	<19000	1100	59000	<490	<2.8	<560	<56	<1400	4900	1300	<560	2300
Fluoranthene	(ug/kg)	46000	16000	120000	<490	100	23000	<14	360000	68000	51000	9500	48000
Fluorene	(ug/kg)	38000	18000	100000	<490	<0.6	22000	690	370000	57000	38000	8800	35000
Indeno(1,2,3-cd)pyrene	(ug/kg)	<19000	5100	<39000	<490	<1	8500	<20	50000	17000	5400	3400	15000
Naphthalene	(ug/kg)	22000	120000	590000	<490	<5	190000	<100	2600000	490000	380000	45000	95000
Phenanthrene	(ug/kg)	96000	54000	230000	<490	<5	64000	1500	1000000	56000	68000	27000	110000
Pyrene	(ug/kg)	48000	23000	100000	<490	140	41000	<50	630000	110000	34000	17000	59000

Notes:	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-10
TIER 1 COMPARISON VOC RESULTS 3 TO 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-504 B-504-7 7/13/2004 6'-7'	B-508 B-508-9 7/19/2004 8'-9'	B-509 B-509-8 7/21/2004 7'-8'	B-559 B-559-8 7/19/2004 7'-8'	B-561 B-561-10 7/15/2004 9'-10'
1,1,1-Trichloroethane	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
1,1,2,2-Tetrachloroethane	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
1,1,2-Trichloroethane	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
1,1-Dichloroethane	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
1,1-Dichloroethylene	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
1,2-Dichloroethane	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
1,2-Dichloropropane	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
2-Hexanone	(ug/kg)	<8830	<1040	<10.3	<256	<841
Acetone	(ug/kg)	<8830	2500	31	460	<841
Bromodichloromethane	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Bromoform	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Carbon Disulfide	(ug/kg)	<2650	<312	<3.1	<76.7	<252
Carbon tetrachloride	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Chlorobenzene	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Chloroethane	(ug/kg)	<1770	<208	<2.1	<51.1	<168
Chloroform	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
cis-1,2-Dichloroethylene	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
cis-1,3-Dichloropropene	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Dibromochloromethane	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Ethene, 1,2-dichloro-, (E)-	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Methyl bromide	(ug/kg)	<1770	<208	<2.1	<51.1	<168
Methyl chloride	(ug/kg)	<1770	<208	<2.1	<51.1	<168
Methyl ethyl ketone	(ug/kg)	<8830	<1040	<10.3	460	<841
Methyl isobutyl ketone (MIBK)	(ug/kg)	<8830	<1040	<10.3	<256	<841
Methyl tert-butyl ether	(ug/kg)	<441	<52.0	<0.5	<12.8	<42.1
Methylene chloride	(ug/kg)	<883	200	<1.0	<25.6	<84.1
Styrene	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Tetrachloroethylene	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
trans-1,3-Dichloropropene	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Trichloroethylene	(ug/kg)	<883	<104	<1.0	<25.6	<84.1
Vinyl chloride	(ug/kg)	<441	<52.0	<0.5	<12.8	<42.1

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-11
TIER 1 COMPARISON SVOC RESULTS FOR 3 TO 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	B-504 B-504-7 7/13/2004 6'-7'	B-508 B-508-9 7/19/2004 8'-9'	B-509 B-509-8 7/21/2004 7'-8'	B-559 B-559-8 7/19/2004 7'-8'	B-561 B-561-10 7/15/2004 9'-10'
1,2,4-Trichlorobenzene	<60.7	<4.22	<0.856	<0.170	<0.795
2,4,5-Trichlorophenol	<43.3	<3.02	<0.611	<0.122	<0.568
2,4,6-Trichlorophenol	<57.5	<4.00	<0.811	<0.161	<0.753
2,4-Dichlorophenol	<55.2	<3.84	<0.778	<0.155	<0.723
2,4-Dimethylphenol	<58.0	<4.00	<0.820	<0.160	<0.760
2,4-Dinitrophenol	<48.8	<3.40	<0.688	<0.137	<0.640
2,4-Dinitrotoluene	<47.4	<3.30	<0.669	<0.133	<0.622
2,6-Dinitrotoluene	<49.3	<3.43	<0.695	<0.138	<0.646
2-Chloronaphthalene	<54.7	<3.81	<0.772	<0.153	<0.717
2-Chlorophenol	<57.9	<4.03	<0.817	<0.162	<0.759
2-Methylnaphthalene	1200	76	<0.770	<0.150	<6.70
3,3-Dichlorobenzidine	<39.2	<2.73	<0.553	<0.110	<0.514
4,6-Dinitro-o-cresol	<49.3	<3.43	<0.695	<0.138	<0.646
4-Bromophenyl phenyl ether	<42.0	<2.92	<0.592	<0.118	<0.550
4-Chlorophenyl phenyl ether	<45.2	<3.14	<0.637	<0.127	<0.592
Bis(2-chloroethoxy)methane	<53.4	<3.72	<0.753	<0.150	<0.700
Bis(2-chloroethyl)ether	<64.8	<4.51	<0.914	<0.182	<0.849
Bis(2-chloroisopropyl)ether	<52.0	<3.62	<0.733	<0.146	<0.682
Bis(2-ethylhexyl)phthalate (BEHP)	<53.4	<3.72	<0.753	0.43	1.71
Butyl benzyl phthalate	<46.1	<3.21	<0.650	<0.129	<0.604
Carbazole	<56.0	<3.90	<0.780	<0.160	<0.730
Dibenzofuran	69	4.1	1.6	<0.160	<0.770
Diethyl phthalate	<43.8	<3.05	<0.618	<0.123	<0.574
Dimethyl phthalate	<41.5	<2.89	<0.585	<0.116	<0.544
Di-n-butyl phthalate	<47.0	<3.27	<0.663	<0.132	<0.616
Di-n-octyl phthalate	<47.4	<3.30	<0.669	<0.133	<0.622
Hexachlorobenzene	<44.7	<3.11	<0.630	<0.125	<0.586
Hexachlorobutadiene	<70.7	<4.92	<0.997	<0.198	<0.927
Hexachlorocyclopentadiene	<46.5	<3.24	<0.656	<0.130	<0.610
Hexachloroethane	<76.2	<5.30	<1.07	<0.214	<0.999
Isophorone	<53.8	<3.75	<0.759	<0.151	<0.706
m & p-Cresol(s)	<57.5	<4.00	<0.811	<0.161	<0.753
m-Dichlorobenzene	<76.6	<5.33	<1.08	<0.215	<1.00
m-Nitroaniline	<37.4	<2.60	<0.528	<0.105	<0.490
Nitrobenzene	<57.0	<3.97	<0.804	<0.160	<0.747
N-Nitrosodiphenylamine	<42.0	<2.92	<0.592	<0.118	<0.550
N-Nitrosodipropylamine	<50.2	<3.49	<0.708	<0.141	<0.658
o-Cresol	<54.0	<3.80	<0.760	<0.150	<0.710
o-Dichlorobenzene	<72.5	<5.05	<1.02	<0.203	<0.951
o-Nitroaniline	<41.5	<2.89	<0.585	<0.116	<0.544
o-Nitrophenol	<51.1	<3.56	<0.721	<0.143	<0.670
p-Chloroaniline	<55.2	<3.84	<0.778	<0.155	<0.723
p-Chloro-m-cresol	<50.2	<3.49	<0.708	<0.141	<0.658
PCP	<301	<21.0	<4.25	<0.844	<3.95
p-Dichlorobenzene	<72.5	<5.05	<1.02	<0.203	<0.951
Phenol	<53.0	<3.70	<0.750	<0.150	<0.690
p-Nitroaniline	<41.5	<2.89	<0.585	<0.116	<0.544
p-Nitrophenol	<44.7	<3.11	<0.630	<0.125	<0.586

Notes:	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-12
TIER 1 COMPARISON - RCRA METALS AND CYANIDE RESULTS FOR 3 TO 10 FT
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	B-504 B-504-7 7/13/2004 6'-7'	B-508 B-508-9 7/19/2004 8'-9'	B-509 B-509-8 7/21/2004 7'-8'	B-559 B-559-8 7/19/2004 7'-8'	B-561 B-561-10 7/15/2004 9'-10'	UTB-08B UTB-08B-01 11/28/1990 4'-9'	UTB-08B UTB-08B-02 11/28/1990 9'-13'	UTB-10 UTB-10-02 11/30/1990 9'-10'	UTB-15 UTB-15-S01 12/13/1991 9'-11'
Arsenic	<2.31	13	12.7	14.5	15.2	---	---	---	---
Barium	63.8	126	117	226	55.2	---	---	---	---
Cadmium	0.31	<0.19	0.1	0.54	0.45	---	---	---	---
Chromium	14.7	21.9	16.8	23.5	15.3	---	---	---	---
Cyanide	---	---	---	---	---	<0.25	<0.25	<0.25	0.35
Lead	16.4	17.9	13.8	18.7	14.1	---	---	---	---
Mercury	0.026	0.036	0.028	0.049	0.018	---	---	---	---
Selenium	**<3.70**	**<3.85**	**<3.92**	**<4.00**	**<3.85**	---	---	---	---
Silver	<0.93	<0.96	<0.98	<1.00	<0.96	---	---	---	---

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO
	<0.05	Detection limit greater than RO due to dilution

TABLE 5-12
TIER 1 COMPARISON - RCRA METALS AND CYANIDE RESULTS FOR 3 TO 10 FT
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UTB-20 UTB-20-S01 12/11/1991 7'-8'	UTB-21 UTB-21-S01 12/12/1991 3'-8'	UTB-22 UTB-22-S01 12/12/1991 6'-8'	UTB-23 UTB-23-S01 12/14/1991 6'-8'	UTB-24 UTB 24-S01 12/15/1991 6'-8'	UTB-25 UTB-25-S01 12/14/1991 9'-11'	UTB-26 UTB-26-S02 12/15/1991 6'-8'	UTB-27 UTB-27-S01 12/16/1991 6'-8'
Arsenic	---	---	---	---	---	---	---	---
Barium	---	---	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---	---	---
Chromium	---	---	---	---	---	---	---	---
Cyanide	2	5	<0.25	14	11	1	<0.25	5
Lead	---	---	---	---	---	---	---	---
Mercury	---	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---
Silver	---	---	---	---	---	---	---	---

Notes:	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO
	<0.05	Detection limit greater than RO due to dilution

TABLE 5-13
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/ DEPTH	B-501 B-501-15 7/13/2004 14'-15'	B-501 B-501-24 7/13/2004 23'-24'	B-502 B-502-12 7/13/2004 11'-12'	B-502 B-502-24 7/21/2004 23'-24'	B-503 B-503-11 7/13/2004 10'-11'	B-503 B-503-19 7/13/2004 18'-19'	B-504 B-504-14 7/13/2004 13'-14'	B-504 B-504-21 7/14/2004 20'-21'	B-504 B-504-28 7/14/2004 27'-28'	B-505 B-505-11 7/14/2004 10'-11'	B-505 B-505-22 7/14/2004 21'-22'	B-505 B-505-28 7/14/2004 27'-28'	B-506 B-506-17 7/22/2004 16'-17'	B-506 B-506-28 7/22/2004 27'-28'
Benzene	(ug/kg)	16400	1.6	30300	423	223	3000	15100	33100	9.1	5040	1.6	3	444000	2.3
Ethylbenzene	(ug/kg)	2420	<0.7	25300	<19.2	372	<106	28500	1100	2	17700	1.5	2.3	122000	1.3
Toluene	(ug/kg)	6900	1.6	108000	<19.2	120	835	8240	8760	3.7	720	4.3	2.5	676000	3.6
Xylene (total)	(ug/kg)	16900	2	226000	<19.2	458	<106	24000	3460	3.4	11200	4.2	4	549000	4
Acenaphthene	(ug/kg)	39000	<130	36000	<11	<42	5400	49000	22000	13	13000	<11	20	55000	<130
Acenaphthylene	(ug/kg)	58000	<140	50000	<11	<42	47000	20000	150000	14	14000	12	30	390000	<140
Anthracene	(ug/kg)	130000	<120	64000	<11	<42	12000	34000	110000	22	11000	<11	37	160000	<120
Benzo(a)anthracene	(ug/kg)	67000	<100	54000	<11	<42	31000	17000	59000	19	7500	<11	29	79000	<100
Benzo(a)pyrene	(ug/kg)	68000	<96	48000	<11	<42	82000	16000	66000	19	7000	<11	25	92000	<96
Benzo(b)fluoranthene	(ug/kg)	72000	<99	56000	<11	<42	88000	12000	50000	15	5400	<11	20	73000	<98
Benzo(ghi)perylene	(ug/kg)	22000	<120	13000	<11	<42	23000	4900	15000	<11	<3500	<11	<11	18000	<120
Benzo(k)fluoranthene	(ug/kg)	21000	<100	17000	<11	<42	25000	4000	16000	<11	<3000	<11	<11	22000	<100
Chrysene	(ug/kg)	64000	<110	56000	<11	<42	34000	16000	62000	21	6700	<11	26	72000	<110
Dibenzo(a,h)anthracene	(ug/kg)	7300	<110	5500	<11	<42	5800	1400	4600	<11	<3100	<11	<11	5600	<110
Fluoranthene	(ug/kg)	160000	<100	140000	<11	<42	37000	36000	120000	33	12000	<11	51	170000	<100
Fluorene	(ug/kg)	120000	<120	120000	<11	<42	13000	48000	120000	22	15000	<11	44	200000	<120
Indeno(1,2,3-cd)pyrene	(ug/kg)	24000	<120	17000	<11	<42	21000	4700	15000	<11	<3400	<11	<11	17000	<120
Naphthalene	(ug/kg)	920000	<150	680000	26	<42	7700	230000	330000	160	110000	160	180	2200000	<150
Phenanthrene	(ug/kg)	350000	<110	270000	<11	<42	18000	120000	320000	72	39000	20	130	610000	<110
Pyrene	(ug/kg)	160000	<110	110000	<11	<42	60000	54000	190000	51	20000	11	78	240000	<110

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-13
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/	B-507 B-507-19 7/21/2004	B-507 B-507-28 7/21/2004	B-508 B-508-11 7/19/2004	B-508 B-508-28 7/19/2004	B-509 B-509-18 7/21/2004	B-509 B-509-28 7/21/2004	B-510 B-510-12 7/12/2004	B-510 B-510-28 7/12/2004	B-512 B-512-11 7/12/2004	B-512 B-512-24 7/12/2004	B-513 B-513-12 7/12/2004	B-513 B-513-24 7/12/2004	B-514 B-514-17 7/22/2004	B-514 B-514-28 7/22/2004
CONSTITUENT	DEPTH	18'-19'	27'-28'	10'-11'	27'-28'	17'-18'	27'-28'	11'-12'	27'-28'	10'-11'	23'-24'	11'-12'	23'-24'	16'-17'	27'-28'
Benzene	(ug/kg)	659000	6.1	2580	1.4	6250	0.7	1.3	1	0.9	1.2	1.8	1	333000	0.8
Ethylbenzene	(ug/kg)	141000	3.4	37100	1	11400	<0.8	<0.8	<0.8	<0.9	<0.8	1.5	<0.8	797000	0.9
Toluene	(ug/kg)	1540000	14.3	220	1.7	550	2	1.8	1.2	1.1	1.2	3.7	1	266000	1.4
Xylene (total)	(ug/kg)	1300000	9.1	19000	1.7	6630	2.7	1	1.4	1.8	1.2	3.5	1	721000	1.8
Acenaphthene	(ug/kg)	120000		48000	<11	86	22	<10	<10	180	<10	<130	<31	1500000	<11
Acenaphthylene	(ug/kg)	700000		8100	<11	260	110	<10	10	<58	<10	<140	<31	400000	<11
Anthracene	(ug/kg)	410000		24000	<11	91	98	<10	<10	83	<10	<120	<31	600000	<11
Benzo(a)anthracene	(ug/kg)	260000		13000	<11	66	72	<10	<10	<58	<10	<110	<31	250000	<11
Benzo(a)pyrene	(ug/kg)	240000		13000	<11	74	79	<10	<10	<58	<10	<97	<31	290000	<11
Benzo(b)fluoranthene	(ug/kg)	170000		11000	<11	53	58	<10	<10	<58	<10	<99	<31	200000	<11
Benzo(ghi)perylene	(ug/kg)	80000		4900	<11	36	39	<10	<10	<58	<10	<120	<31	100000	<11
Benzo(k)fluoranthene	(ug/kg)	70000		3300	<11	16	17	<10	<10	<58	<10	<100	<31	59000	<11
Chrysene	(ug/kg)	240000		12000	<11	66	72	<10	<10	<58	<10	<110	<31	260000	<11
Dibenzo(a,h)anthracene	(ug/kg)	<15000		<2500	<11	<11	<11	<10	<10	<58	<10	<110	<31	26000	<11
Fluoranthene	(ug/kg)	480000		27000	<11	120	140	<10	<10	66	<10	<110	<31	660000	<11
Fluorene	(ug/kg)	550000		35000	<11	110	90	<10	<10	164	<10	<130	<31	840000	<11
Indeno(1,2,3-cd)pyrene	(ug/kg)	64000		4300	<11	27	28	<10	<10	<58	<10	<120	<31	84000	<11
Naphthalene	(ug/kg)	4600000		190000	30	7900	470	<10	<10	104	<10	<150	<31	7700000	85
Phenanthrene	(ug/kg)	940000		78000	19	300	310	<10	<10	317	<10	<110	<31	2400000	<11
Pyrene	(ug/kg)	710000		39000	<11	190	220	<10	<10	87	<10	<110	<31	1000000	<11

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-13
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/ DEPTH	B-515 B-515-19 7/16/2004 18'-19'	B-515 B-515-32 7/16/2004 31'-32'	B-516 B-516-14 7/22/2004 13'-14'	B-516 B-516-24 7/22/2004 23'-24'	B-550 B-550-11 7/20/2004 10'-11'	B-550 B-550-16 7/20/2004 15'-16'	B-550 B-550-28 7/20/2004 27'-28'	B-551 B-551-16 7/15/2004 15'-16'	B-551 B-551-28 7/15/2004 27'-28'	B-553 B-553-15 7/14/2004 14'-15'	B-553 B-553-24 7/14/2004 23'-24'	B-553 B-553-32 7/14/2004 31'-32'	B-554 B-554-18 7/15/2004 17'-18'	B-554 B-554-32 7/15/2004 31'-32'
Benzene	(ug/kg)	29300	2	5450	0.7	1240	5810	1.1	14.8	2.6	3030	97300	3.5	5620	3.7
Ethylbenzene	(ug/kg)	5730	1.4	11400	<0.8	4020	1440	<0.8	42	3.3	10100	32900	1.5	9020	4.8
Toluene	(ug/kg)	35100	2.2	1180	1.1	150	798	1.8	73.6	3.4	16100	164000	4.5	7780	9.5
Xylene (total)	(ug/kg)	27600	2.4	25300	1.5	1930	1430	1.4	128	5.6	37300	155000	3.6	13000	17.8
Acenaphthene	(ug/kg)	3000	<120	1900	<11	36000	50	<11	13	38	16000	100000	<130	99000	<11
Acenaphthylene	(ug/kg)	26000	<140	2800	<11	4700	20	<11	80	<11	36000	660000	<140	230000	<11
Anthracene	(ug/kg)	11000	<120	6000	<11	18000	54	<11	21	37	78000	370000	<120	170000	<11
Benzo(a)anthracene	(ug/kg)	5800	<100	3000	<11	6700	40	<11	27	32	51000	190000	<100	78000	<11
Benzo(a)pyrene	(ug/kg)	6500	<93	3600	<11	7500	34	<11	23	29	53000	190000	<95	86000	<11
Benzo(b)fluoranthene	(ug/kg)	4500	<95	2500	<11	4900	32	<11	20	27	56000	150000	<97	74000	<11
Benzo(ghi)perylene	(ug/kg)	2100	<120	1200	<11	2000	11	<11	<11	13	12000	58000	<120	13000	<11
Benzo(k)fluoranthene	(ug/kg)	1600	<100	850	<11	1400	<11	<11	<11	<11	20000	49000	<100	26000	<11
Chrysene	(ug/kg)	5900	<110	2800	<11	6500	40	<11	26	31	47000	200000	<110	79000	<11
Dibenzo(a,h)anthracene	(ug/kg)	570	<100	400	<11	610	<11	<11	<11	<11	4000	17000	<100	<5100	<11
Fluoranthene	(ug/kg)	13000	<100	7300	<11	16000	77	<11	40	58	130000	420000	<100	170000	<11
Fluorene	(ug/kg)	16000	<120	6800	<11	24000	50	<11	19	36	65000	560000	<120	240000	<11
Indeno(1,2,3-cd)pyrene	(ug/kg)	1900	<110	1100	<11	1800	<11	<11	<11	<11	14000	52000	<110	14000	<11
Naphthalene	(ug/kg)	86000	<150	130000	57	35000	260	61	1500	82	520000	2600000	<150	1100000	57
Phenanthrene	(ug/kg)	38000	<100	18000	18	49000	170	21	66	120	220000	980000	<110	590000	25
Pyrene	(ug/kg)	20000	<100	9500	12	20000	100	<11	58	76	140000	590000	<110	240000	11

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-13
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/ DEPTH	B-556 B-556-20 7/20/2004 19'-20'	B-556 B-556-28 7/20/2004 27'-28'	B-557 B-557-12 7/20/2004 11'-12'	B-557 B-557-24 7/20/2004 23'-24'	B-558 B-558-12 7/19/2004 11'-12'	B-558 B-558-18 7/19/2004 17'-18'	B-558 B-558-28 7/19/2004 27'-28'	B-559 B-559-19 7/19/2004 18'-19'	B-559 B-559-28 7/19/2004 27'-28'	B-560 B-560-13 7/16/2004 12'-13'	B-560 B-560-20 7/16/2004 19'-20'	B-560 B-560-28 7/16/2004 27'-28'	B-561 B-561-13 7/15/2004 12'-13'	B-561 B-561-19 7/15/2004 18'-19'
Benzene	(ug/kg)	3350	2.1	30.8	0.9	9.5	90.5	1.6	1.4	0.9	86.8	10.4	2.3	204	3.3
Ethylbenzene	(ug/kg)	4510	2.3	1030	<0.9	5	20.9	1	0.8	<0.7	18600	2.1	2.2	1600	3.9
Toluene	(ug/kg)	10400	5	9.9	1.1	2.5	71.3	2.2	2.1	1.3	150	6.1	2.8	<86.6	2.8
Xylene (total)	(ug/kg)	13900	4.6	532	1.2	52.1	82.1	2.8	2.2	1.3	19100	4.5	3.9	2060	5.6
Acenaphthene	(ug/kg)	12000	<120	6200	23	820	42	12	<11	25	72000	14	65	27000	20
Acenaphthylene	(ug/kg)	52000	<140	1500	<11	320	400	<10	<11	29	6300	<11	11	3300	<11
Anthracene	(ug/kg)	28000	<120	4200	23	190	19	<10	<11	<11	37000	14	65	11000	16
Benzo(a)anthracene	(ug/kg)	13000	<100	2300	17	140	17	<10	<11	<11	17000	19	68	5300	12
Benzo(a)pyrene	(ug/kg)	17000	<93	1900	14	130	15	<10	<11	<11	22000	18	55	5500	<11
Benzo(b)fluoranthene	(ug/kg)	11000	<96	1600	12	100	<11	<10	<11	<11	16000	15	51	3900	<11
Benzo(ghi)perylene	(ug/kg)	3000	<120	500	<11	47	<11	<10	<11	<11	4800	<11	24	1500	<11
Benzo(k)fluoranthene	(ug/kg)	3300	<100	450	<11	32	<11	<10	<11	<11	5100	<11	12	1200	<11
Chrysene	(ug/kg)	14000	<110	2100	16	140	17	<10	<11	<11	18000	19	48	5900	13
Dibenzo(a,h)anthracene	(ug/kg)	960	<100	<240	<11	15	<11	<10	<11	<11	1300	<11	<11	430	<11
Fluoranthene	(ug/kg)	30000	<100	4200	27	430	29	15	<11	<11	41000	29	91	9400	20
Fluorene	(ug/kg)	31000	<120	5300	20	320	62	<10	<11	<11	44000	<11	59	15000	18
Indeno(1,2,3-cd)pyrene	(ug/kg)	2800	<110	410	<11	39	<11	<10	<11	<11	4400	<11	16	1300	<11
Naphthalene	(ug/kg)	240000	<150	450	53	28	2500	31	13	16	290000	57	200	29000	110
Phenanthrene	(ug/kg)	90000	<100	12000	70	2100	69	33	<11	<11	120000	50	200	37000	51
Pyrene	(ug/kg)	47000	<100	6400	40	630	44	22	<11	<11	63000	44	140	14000	29

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-13
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/ DEPTH	B-561 B-561-32 7/15/2004 31'-32'	B-562 B-562-14 7/15/2004 13'-14'	B-562 B-562-28 7/15/2004 27'-28'	UTB-01 UTB-01-01 12/4/1990 21'-23'	UTB-01 UTB-01-02 12/4/1990 27'-28'	UTB-03 UTB-03-01 11/29/1990 11'-3.5'	UTB-03 UTB-03-02 11/29/1990 18.5'-23.5'	UTB-10 UTB-10-02 11/28/1990 14'-19'	UTB-11 UTB-11-02 12/3/1990 21'-22'	UTB-14 UTB-14-02 12/6/1990 32'-33'	UTB-15 UTB-15-S02 12/13/1991 33'-35'	UTB-16 UTB-16-02 12/6/1990 16.5'-18'	UTB-18 UTB-18-02 12/7/1990 17'-18'	UTB-20 UTB-20-S01 12/11/1991 17'-18'
Benzene	(ug/kg)	1.5	6260	2	680	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310
Ethylbenzene	(ug/kg)	<0.8	58500	1.1	5600	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310
Toluene	(ug/kg)	1.7	499	4.1	1200	<310	450	<310	<310	<310	<310	<310	<310	<310	<310
Xylene (total)	(ug/kg)	1.7	54300	3.6	6300	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310
Acenaphthene	(ug/kg)	<11	93000	14	78000	<330	940	<330	<330	<330	<330	2700	<330	<490	<5
Acenaphthylene	(ug/kg)	<11	12000	<11	34000	<330	390	<330	<330	<330	<330	<8	<330	<490	<8
Anthracene	(ug/kg)	<11	52000	<11	56000	<330	<330	<330	<330	<330	<330	120	<330	<490	<0.7
Benzo(a)anthracene	(ug/kg)	<11	26000	<11	30000	<330	<330	<330	<330	<330	<330	110	<330	<490	<43
Benzo(a)pyrene	(ug/kg)	<11	22000	<11	24000	<330	<330	<330	<330	<330	<330	290	<330	520	<7.7
Benzo(b)fluoranthene	(ug/kg)	<11	18000	<11	20000	<330	<330	<330	<330	<330	<330	<1	<330	850	<1
Benzo(ghi)perylene	(ug/kg)	<11	6200	<11	<19000	<330	<330	<330	<330	<330	<330	65	<330	<490	<4.7
Benzo(k)fluoranthene	(ug/kg)	<11	6000	<11	<19000	<330	<6600	<330	<330	<330	<330	<0.4	<330	<490	<0.4
Chrysene	(ug/kg)	<11	26000	<11	34000	<330	<330	<330	<330	<330	<330	170	<330	430	<1
Dibenzo(a,h)anthracene	(ug/kg)	<11	<3000	<11	<19000	<330	<330	<330	<330	<330	<330	<2.8	<330	<490	<2.8
Fluoranthene	(ug/kg)	<11	54000	12	60000	<330	<330	<330	<330	<330	<330	500	<330	400	<0.7
Fluorene	(ug/kg)	<11	66000	<11	70000	<330	530	<330	<330	<330	<330	170	<330	<490	<0.6
Indeno(1,2,3-cd)pyrene	(ug/kg)	<11	5200	<11	<19000	<330	<330	<330	<330	<330	<330	55	<330	<490	<1
Naphthalene	(ug/kg)	<11	320000	41	320000	<330	<330	<330	<330	<330	<330	1300	<330	<490	<5
Phenanthrene	(ug/kg)	<11	170000	37	160000	<330	1200	<330	<330	<330	<330	390	<330	<490	14
Pyrene	(ug/kg)	<11	78000	19	74000	<330	<330	<330	<330	<330	<330	400	<330	350	<2.5

Notes:

ug/kg	Micrograms per kilogram
(1)	Provisional remediation objective provided by IEPA
-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
<12	Not detected at the level identified
	Analytical result exceeds one or more Tier 1 RO

TABLE 5-13
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/ DEPTH	UTB-21 UTB-21-S02 12/12/1991 20'-23'	UTB-22 UTB-22-S02 12/12/1991 20'-23'	UTB-23 UTB-23-S02 12/14/1991 26'-28'	UTB-24 UTB-24-S02 12/15/1991 21'-23'	UTB-25 UTB-25-S02 12/14/1991 26'-28'	UTB-26 UTB-26-S02 12/15/1991 21'-23'	UTB-27 UTB-27-S02 12/16/1991 21'-23'
Benzene	(ug/kg)	<310	<310	730	610	<310	<310	2600
Ethylbenzene	(ug/kg)	<310	<310	<310	<310	<310	<310	<310
Toluene	(ug/kg)	<310	<310	<310	<310	<310	<310	<310
Xylene (total)	(ug/kg)	<310	<310	<310	<310	<310	<310	<310
Acenaphthene	(ug/kg)	130	<5	28	84	34	<5	<11
Acenaphthylene	(ug/kg)	<8	<8	<8	47	<8	<8	18
Anthracene	(ug/kg)	<0.7	<0.7	16	74	23	2	<1.4
Benzo(a)anthracene	(ug/kg)	<4.3	<4.3	35	100	<4.3	<4.3	<29
Benzo(a)pyrene	(ug/kg)	<7.7	<7.7	120	200	270	<7.7	<20
Benzo(b)fluoranthene	(ug/kg)	<1	<1	<1	<1	<1	<1	<1.9
Benzo(ghi)perylene	(ug/kg)	<4.7	<4.7	<4.7	150	47	<4.7	<9.3
Benzo(k)fluoranthene	(ug/kg)	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.9
Chrysene	(ug/kg)	<1	<1	<35	73	<1	22	8
Dibenzo(a,h)anthracene	(ug/kg)	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<5.7
Fluoranthene	(ug/kg)	<0.7	<0.7	160	340	220	<0.7	<1.4
Fluorene	(ug/kg)	<0.6	<0.6	<0.6	89	590	<0.6	10
Indeno(1,2,3-cd)pyrene	(ug/kg)	<1	<1	<1	63	<1	<1	<1.9
Naphthalene	(ug/kg)	70	<330	130	460	350	15	91
Phenanthrene	(ug/kg)	47	140	77	270	97	22	30
Pyrene	(ug/kg)	<2.5	<2.5	110	350	190	220	180

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-14
TIER 1 COMPARISON VOC RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	B-501 B-501-24 7/13/2004 23'-24'	B-505 B-505-11 7/14/2004 10'-11'	B-506 B-506-28 7/22/2004 27'-28'	B-507 B-507-19 7/21/2004 18'-19'	B-513 B-513-12 7/12/2004 11'-12'	B-515 B-515-32 7/16/2004 31'-32'	B-553 B-553-32 7/14/2004 31'-32'	B-556 B-556-28 7/20/2004 27'-28'	B-557 B-557-12 7/20/2004 11'-12'	B-562 B-562-14 7/15/2004 13'-14'
1,1,1-Trichloroethane	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
1,1,2,2-Tetrachloroethane	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
1,1,2-Trichloroethane	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
1,1-Dichloroethane	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
1,1-Dichloroethylene	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
1,2-Dichloroethane	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
1,2-Dichloropropane	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
2-Hexanone	<7.4	<2110	<9.2	<10400	<8.1	<7.2	<7.3	<7.8	<18.0	<1660
Acetone	8.3	<2110	57.5	20000	19	32	37.1	31	67	<1660
Bromodichloromethane	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Bromoform	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Carbon Disulfide	<2.2	<633	<2.8	<3130	<2.4	<2.2	<2.2	<2.3	<5.4	<499
Carbon tetrachloride	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Chlorobenzene	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Chloroethane	<1.5	<422	<1.8	<2090	<1.6	<1.4	<1.4	<1.6	<3.6	<333
Chloroform	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
cis-1,2-Dichloroethylene	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
cis-1,3-Dichloropropene	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Dibromochloromethane	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Ethene, 1,2-dichloro-, (E)-	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Methyl bromide	<1.5	<422	<1.8	<2090	<1.6	<1.4	<1.4	<1.6	<3.6	<333
Methyl chloride	<1.5	<422	<1.8	<2090	<1.6	<1.4	<1.4	<1.6	<3.6	<333
Methyl ethyl ketone	<7.4	<2110	<9.2	<10400	<8.1	<7.2	<7.3	<7.8	<18.0	<1660
Methyl isobutyl ketone (MIBK)	<7.4	<2110	<9.2	<10400	<8.1	<7.2	<7.3	<7.8	<18.0	<1660
Methyl tert-butyl ether	<0.4	<105	<0.5	<522	<0.4	<0.4	<0.4	<0.4	<0.9	<83.1
Methylene chloride	<0.7	<211	1.6	1300	1	<0.7	0.8	1.1	<1.8	<166
Styrene	<0.7	<211	<0.9	938000	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Tetrachloroethylene	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
trans-1,3-Dichloropropene	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Trichloroethylene	<0.7	<211	<0.9	<1040	<0.8	<0.7	<0.7	<0.8	<1.8	<166
Vinyl chloride	<0.4	<105	<0.5	<522	<0.4	<0.4	<0.4	<0.4	<0.9	<83.1

Notes:		
	ug/kg	Micrograms per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO

TABLE 5-15
TIER 1 COMPARISON SVOC RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/DEPTH	B-501 B501-15 (14-15) 7/13/2004 15	B-501 B-501-24 (23-24) 7/13/2004 23'-24'	B-505 B-505-11 (10-11) 7/14/2004 10'-11'	B-506 B-506-28 (27-28) 7/22/2004 27'-28'	B-507 B-507-19 (18-19) 7/21/2004 18'-19'	B-513 B-513-12 (11-12) 7/12/2004 11'-12'	B-515 B-515-32 (31-32) 7/16/2004 31'-32'	B-553 B-553-32 (31-32) 7/14/2004 31'-32'	B-556 B-556-28 (27-28) 7/20/2004 27'-28'	B-557 B-557-12 (11-12) 7/20/2004 11'-12'	B-562 B-562-14 (13-14) 7/15/2004 13'-14'
1,2,4-Trichlorobenzene	(mg/kg)	---	<0.148	<4.29	<0.147	<20.6	<0.148	<0.142	<0.145	<0.143	<0.329	<4.13
2,4,5-Trichlorophenol	(mg/kg)	---	<0.105	<3.07	<0.105	<14.7	<0.106	<0.101	<0.104	<0.102	<0.235	<2.95
2,4,6-Trichlorophenol	(mg/kg)	---	<0.140	<4.07	<0.139	<19.5	<0.140	<0.134	<0.137	<0.135	<0.311	<3.91
2,4-Dichlorophenol	(mg/kg)	---	<0.134	<3.91	<0.134	<18.8	<0.135	<0.129	<0.132	<0.130	<0.299	<3.75
2,4-Dimethylphenol	(mg/kg)	---	<0.140	<4.10	<0.140	<20.0	<0.140	<0.140	<0.140	<0.140	<0.310	<3.90
2,4-Dinitrophenol	(mg/kg)	---	<0.119	<3.45	<0.118	<16.6	<0.119	<0.114	<0.117	<0.115	<0.264	<3.32
2,4-Dinitrotoluene	(mg/kg)	---	<0.115	<3.36	<0.115	<16.1	<0.116	<0.111	<0.113	<0.112	<0.257	<3.23
2,6-Dinitrotoluene	(mg/kg)	---	<0.120	<3.49	<0.120	<16.7	<0.120	<0.115	<0.118	<0.116	<0.267	<3.35
2-Chloronaphthalene	(mg/kg)	---	<0.133	<3.87	<0.133	<18.6	<0.134	<0.128	<0.131	<0.129	<0.296	<3.72
2-Chlorophenol	(mg/kg)	---	<0.141	<4.10	<0.141	<19.7	<0.141	<0.135	<0.138	<0.136	<0.314	<3.94
2-Methylnaphthalene	(mg/kg)	---	<0.130	8	<0.130	1400	<0.130	<0.130	<0.130	<0.130	<0.290	190
3,3-Dichlorobenzidine	(mg/kg)	---	<0.095	<2.78	<0.095	<13.3	<0.096	<0.092	<0.094	<0.092	<0.212	<2.67
4,6-Dinitro-o-cresol	(mg/kg)	---	<0.120	<3.49	<0.120	<16.7	<0.120	<0.115	<0.118	<0.116	<0.267	<3.35
4-Bromophenyl phenyl ether	(mg/kg)	---	<0.102	<2.97	<0.102	<14.3	<0.102	<0.098	<0.100	<0.099	<0.227	<2.85
4-Chlorophenyl phenyl ether	(mg/kg)	---	<0.110	<3.20	<0.110	<15.3	<0.110	<0.106	<0.108	<0.106	<0.245	<3.07
Bis(2-chloroethoxy)methane	(mg/kg)	---	<0.130	<3.78	<0.129	<18.1	<0.130	<0.125	<0.128	<0.125	<0.289	<3.63
Bis(2-chloroethyl)ether	(mg/kg)	---	<0.157	<4.58	<0.157	<22.0	<0.158	<0.151	<0.155	<0.152	<0.351	<4.41
Bis(2-chloroisopropyl)ether	(mg/kg)	---	<0.126	<3.68	<0.126	<17.7	<0.127	<0.122	<0.124	<0.122	<0.282	<3.54
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	---	0.836	<3.78	<0.129	<18.1	<0.130	0.667	0.3	0.25	<0.289	<3.63
Butyl benzyl phthalate	(mg/kg)	---	<0.112	<3.26	<0.112	<15.7	<0.112	<0.108	<0.110	<0.108	<0.250	<3.13
Carbazole	(mg/kg)	---	<0.140	<3.90	<0.140	<19.0	<0.140	<0.130	<0.130	<0.130	<0.300	<3.80
Dibenzofuran	(mg/kg)	---	<0.140	<4.10	<0.140	860	<0.140	<0.130	<0.140	<0.140	0.54	8.8
Diethyl phthalate	(mg/kg)	---	<0.106	<3.10	<0.106	<14.9	<0.107	<0.102	<0.105	<0.103	<0.237	<2.98
Dimethyl phthalate	(mg/kg)	---	<0.101	<2.94	<0.101	<14.1	<0.101	<0.097	<0.099	<0.098	<0.225	<2.82
Di-n-butyl phthalate	(mg/kg)	---	<0.114	<3.32	<0.114	<16.0	<0.115	<0.110	<0.112	<0.110	<0.254	<3.20
Di-n-octyl phthalate	(mg/kg)	---	<0.115	<3.36	<0.115	<16.1	<0.116	<0.111	<0.113	<0.112	<0.257	<3.23
Hexachlorobenzene	(mg/kg)	---	<0.109	<3.16	<0.108	<15.2	<0.109	<0.105	<0.107	<0.105	<0.242	<3.04
Hexachlorobutadiene	(mg/kg)	---	<0.172	<5.00	<0.172	<24.0	<0.173	<0.165	<0.169	<0.166	<0.383	<4.81
Hexachlorocyclopentadiene	(mg/kg)	---	<0.113	<3.29	<0.113	<15.8	<0.114	<0.109	<0.111	<0.109	<0.252	<3.17
Hexachloroethane	(mg/kg)	---	<0.185	<5.39	<0.185	<25.9	<0.186	<0.178	<0.182	<0.179	<0.413	<5.18
Isophorone	(mg/kg)	---	<0.131	<3.81	<0.131	<18.3	<0.131	<0.126	<0.129	<0.127	<0.292	<3.66
m & p-Cresol(s)	(mg/kg)	---	<0.140	<4.07	<0.139	<19.5	<0.140	<0.134	<0.137	<0.135	<0.311	<3.91
m-Dichlorobenzene	(mg/kg)	---	<0.186	<5.42	<0.186	<26.0	<0.187	<0.179	<0.183	<0.180	<0.415	<5.21
m-Nitroaniline	(mg/kg)	---	<0.091	<2.65	<0.091	<12.7	<0.091	<0.088	<0.089	<0.088	<0.203	<2.54
Nitrobenzene	(mg/kg)	---	<0.139	<4.03	<0.138	<19.4	<0.139	<0.133	<0.136	<0.134	<0.309	<3.88
N-Nitrosodiphenylamine	(mg/kg)	---	<0.102	<2.97	<0.102	<14.3	<0.102	<0.098	<0.100	<0.099	<0.227	<2.85
N-Nitrosodipropylamine	(mg/kg)	---	<0.122	<3.55	<0.122	<17.1	<0.122	<0.117	<0.120	<0.118	<0.272	<3.41
o-Cresol	(mg/kg)	---	<0.130	<3.80	<0.130	<18.0	<0.130	<0.130	<0.130	<0.130	<0.290	<3.70
o-Dichlorobenzene	(mg/kg)	---	<0.176	<5.13	<0.176	<24.6	<0.177	<0.170	<0.173	<0.171	<0.393	<4.93
o-Nitroaniline	(mg/kg)	---	<0.101	<2.94	<0.101	<14.1	<0.101	<0.097	<0.099	<0.098	<0.225	<2.82
o-Nitrophenol	(mg/kg)	---	<0.124	<3.62	<0.124	<17.4	<0.125	<0.119	<0.122	<0.120	<0.277	<3.48
p-Chloroaniline	(mg/kg)	---	<0.134	<3.91	<0.134	<18.8	<0.135	<0.129	<0.132	<0.130	<0.299	<3.75
p-Chloro-m-cresol	(mg/kg)	---	<0.122	<3.55	<0.122	<17.1	<0.122	<0.117	<0.120	<0.118	<0.272	<3.41
PCP	(mg/kg)	---	<0.732	<21.3	<0.730	<102	<0.735	<0.704	<0.720	<0.708	<1.63	<20.5
p-Dichlorobenzene	(mg/kg)	---	<0.176	<5.13	<0.176	<24.6	<0.177	<0.170	<0.173	<0.171	<0.393	<4.93
Phenol	(mg/kg)	---	<0.130	<3.70	<0.130	<18.0	<0.130	<0.120	<0.130	<0.120	<0.290	<3.60
p-Nitroaniline	(mg/kg)	---	<0.101	<2.94	<0.101	<14.1	<0.101	<0.097	<0.099	<0.098	<0.225	<2.82
p-Nitrophenol	(mg/kg)	---	<0.109	<3.16	<0.108	<15.2	<0.109	<0.105	<0.107	<0.105	<0.242	<3.04

Notes:

mg/kg	Milligrams per kilogram
(1)	Provisional remediation objective provided by IEPA
-----	No remediation objective has been established by the IEPA for this constituent for this exposure route
<12	Not detected at the level identified
	Analytical result exceeds one or more Tier 1 RO

TABLE 5-16
TIER 1 COMPARISON - RCRA METALS AND CYANIDE RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/DEPTH	B-501 B-501-24 7/13/2004 23'-24'	B-502 B-502-12 7/13/2004 11'-12'	B-505 B-505-11 7/14/2004 10'-11'	B-506 B-506-28 7/22/2004 27'-28'	B-507 B-507-19 7/21/2004 18'-19'	B-513 B-513-12 7/12/2004 11'-12'	B-515 B-515-32 7/16/2004 31-'32'	B-553 B-553-32 7/14/2004 31'-32'	B-556 B-556-28 7/20/2004 27'-28'	B-557 B-557-12 7/20/2004 11'-12'	B-562 B-562-14 7/15/2004 13'-14'	UTB-01 UTB-01-01 12/4/1990 21'-23'
Arsenic	(mg/kg)	3.46	7.47	10.1	4.57	<2.36	4.07	7.64	5.46	3.69	12.4	<2.50	---
Barium	(mg/kg)	14.7	52	77.2	20.1	4.88	33.1	13.3	14.6	17.2	109	18.8	---
Cadmium	(mg/kg)	0.1	0.17	0.16	<0.20	<0.19	<0.20	0.23	<0.20	<0.19	<0.20	<0.20	---
Chromium	(mg/kg)	13.6	11.8	22.3	11.5	2.49	18.2	9.04	10.1	11.4	23.3	7.18	---
Cyanide	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---	
Lead	(mg/kg)	8.07	12.3	14.9	9.98	3.2	10.9	8.93	8.62	9.94	19.1	7.92	---
Mercury	(mg/kg)	0.009	0.05	0.043	0.008	<0.012	0.006	0.007	0.009	0.008	0.009	0.007	---
Selenium	(mg/kg)	**<3.77**	**<3.85**	**<3.85**	**<4.00**	**<3.77**	**<4.00**	**<3.85**	**<4.00**	**<3.77**	**<4.00**	**<4.00**	---
Silver	(mg/kg)	<0.94	<0.96	<0.96	<1.00	<0.94	<1.00	<0.96	<1.00	<0.94	<1.00	<1.00	---

Notes:		
	mg/kg	Milligrams per kilogram
	(1)	Provisional remediation objective provided by IEPA
	-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
	<12	Not detected at the level identified
		Analytical result exceeds one or more Tier 1 RO
	<0.05	Detection limit greater than RO due to dilution

TABLE 5-16
TIER 1 COMPARISON - RCRA METALS AND CYANIDE RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS/DEPTH	UTB-03 UTB-0301 11/29/1990 11'-13'	UTB-03 UTB-03-02 11/29/1990 18.5'-23.5'	UTB-10 UTB-10-02 11/30/1990 14'-19'	UTB-15 UTB-15-S02 12/13/1991 33'-35'	UTB-20 UTB-20-S02 12/11/1991 17'-18'	UTB-21 UTB-21-S02 12/12/1991 20'-23'	UTB-22 UTB-22-S02 12/12/1991 20'-23'	UTB-23 UTB-23-S02 12/14/1991 26'-28'	UTB-24 UTB-24-S02 12/15/1991 21'-23'	UTB-25 UTB-25-S02 12/14/1991 26'-28'	UTB-26 UTB-26-S02 12/15/1991 21'-23'
Arsenic	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---
Barium	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---
Cadmium	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---
Chromium	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---
Cyanide	(mg/kg)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Lead	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---
Mercury	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---
Selenium	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---
Silver	(mg/kg)	---	---	---	---	---	---	---	---	---	---	---

Notes:

mg/kg	Milligrams per kilogram
(1)	Provisional remediation objective provided by IEPA
-----	No remediation objective has been established by the IEPA for this constitiuent for this exposure route
<12	Not detected at the level identified
	Analytical result exceeds one or more Tier 1 RO
<0.05	Detection limit greater than RO due to dilution

TABLE 5-17
ALL SOIL TPH RESULTS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-504 B-504-3 (2-3) 7/13/2004 3'	B-510 B-510-2 (1-2) 7/12/2004 2'	TP-503 TP-503 (3') 7/8/2004 3'	TP-504 TP-504 (3') 7/8/2004 3'	B-505 B-505-6 (5-6) 7/14/2004 6'	B-512 B-512-8 (7-8) 8'	B-513 B-513-8 (7-8) 7/12/2004 8'
Diesel	(mg/kg)	6720	50.9	21300	5410	25600	830	884
Kerosene	(mg/kg)	<663	<6.57	<1270	<227	<993	<62.3	<144
Mineral spirits	(mg/kg)	<663	<6.57	<1270	<227	<993	<62.3	<144
n-Butyl alcohol	(mg/kg)	---	<6.6	---	---	---		---
TPH (as motor oil)	(mg/kg)	13200	97.9	3430	1280	5510	75	<144
Total TPH	(mg/kg)	19920	148.8	24730	6690	31110	905	884

CONSTITUENT	UNITS	B-516 B-516-5 (4-5') 7/22/2004 5'	B-551 B-551-10 (9-10) 7/15/2004 10'	B-558 B-558-7 (6-7') 7/19/2004 7'	TP-501 TP-501 (7') 7/8/2004 7'	TP-503A TP-503A (3.5') 7/8/2004 3.5'	TP-507 TP-507 (3.5') 7/7/2004 3.5'	TP-508 TP-508 (4') 7/8/2004 4'
Diesel	(mg/kg)	5410	699	946	1880	1210	9530	23500
Kerosene	(mg/kg)	<634	<68.0	<65.5	<155	<165	<414	<1070
Mineral spirits	(mg/kg)	<634	<68.0	<65.5	<155	<165	<414	<1070
n-Butyl alcohol	(mg/kg)	---	---	---	---	---	---	---
TPH (as motor oil)	(mg/kg)	<634	139	<65.5	305	235	2980	5130
Total TPH	(mg/kg)	5410	838	946	2185	1445	12510	28630

CONSTITUENT	UNITS	B-501 B-501-15 (14-15) 7/13/2004 15'	B-503 B-503-11 (10-11) 7/13/2004 11'	B-504 B-504-21 (20-21) 7/14/2004 21'	B-506 B-506-17 (16-17) 7/22/2004 17'	B-507 B-507-19 (18-19) 7/21/2004 19'	B-508 B-508-11 (10-11) 7/19/2004 11'	B-509 B-509-18 (17-18) 7/21/2004 18'
Diesel	(mg/kg)	1050	222	8550	12900	23200	1510	<5.44
Kerosene	(mg/kg)	<141	<6.78	<539	<554	<3620	<64.7	8.58
Mineral spirits	(mg/kg)	<141	<6.78	<539	<554	<3620	<64.7	<5.44
n-Butyl alcohol	(mg/kg)	---	---	---	---	15	---	---
TPH (as motor oil)	(mg/kg)	388	87	2490	<554	<3620	<64.7	<5.44
Total TPH	(mg/kg)	1438	309	11040	12900	23215	1510	8.58

Notes:
mg/kg Milligrams per kilogram
<12 Not detected at the level identified
Analytical result exceeds one or more Tier 1 RO
ND = TPH constituents not detected.

TABLE 5-17
ALL SOIL TPH RESULTS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-514 B-514-17 (16-17) 7/22/2004 17'	B-515 B515-19 (18-19) 7/16/2004 19'	B-550 B-550-11 (10-11) 7/20/2004 11'	B-553 B-553-24 (23-24) 7/14/2004 24'	B-554 B-554-18 (17-18) 7/15/2004 18'	B-556 B-556-20 (19-20) 7/20/2004 20'	B-557 B-557-12 (11-12) 7/20/2004 12'
Diesel	(mg/kg)	45900	811	1540	40400	5480	1010	467
Kerosene	(mg/kg)	<1690	<134	<63.9	<1320	<279	<56.8	<62.0
Mineral spirits	(mg/kg)	<1690	<134	<63.9	<1320	<279	<56.8	<62.0
n-Butyl alcohol	(mg/kg)	---	---	---	---	---	---	<6.1
TPH (as motor oil)	(mg/kg)	14800	<134	<63.9	8910	1190	<56.8	<62.0
Total TPH	(mg/kg)	60700	811	1540	49310	6670	1010	467

CONSTITUENT	UNITS	B-559 B-559-19 (18-19) 7/19/2004 19'	B-560 B-560-13 (12-13) 7/16/2004 13'	B-561 B561-10 (9-10) 7/15/2004 10'	B-562 B-562-14 (13-14) 7/15/2004 14'
Diesel	(mg/kg)	<5.44	2560	---	5190
Kerosene	(mg/kg)	<5.44	<174	---	<281
Mineral spirits	(mg/kg)	<5.44	<174	---	<281
n-Butyl alcohol	(mg/kg)	---	---	<6.1	<5.6
TPH (as motor oil)	(mg/kg)	<5.44	633	---	1030
Total TPH	(mg/kg)	ND	3193	ND	6220

Notes:

mg/kg	Milligrams per kilogram
<12	Not detected at the level identified
	Analytical result exceeds one or more Tier 1 RO

ND = TPH constituents not detected.

TABLE 5-18
DUPLICATE RESULTS FOR BTEX and PAHS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-513 B-513-2 7/12/2004 1'-2' Primary	B-513 B-513-2D 7/12/2004 1'-2' Duplicate	B-516 B-516-5 7/22/2004 4'-5' Primary	B-516 B-516-5D 7/22/2004 4'-5' Duplicate	B-554 B-554-3 7/15/2004 2'-3' Primary	B-554 B-554-3D 7/15/2004 2'-3' Duplicate	B-560 B-560-20 7/16/2004 19'-20' Primary	B-560 B-560-20D 7/16/2004 19'-20' Duplicate	B-561 B-561-32 7/15/2004 31'-32' Primary	B-561 B-561-32D 7/15/2004 31'-32' Duplicate
Acenaphthene	(mg/kg)	0.052	<0.063	7.5	3.27	<3.02	0.62	0.014	0.028	<0.011	<0.011
Acenaphthylene	(mg/kg)	0.1	<0.063	4.97	3.69	9.15	11.7	<0.011	<0.012	<0.011	<0.011
Anthracene	(mg/kg)	0.221	<0.063	3.75	2.67	<2.81	3.1	0.014	0.027	<0.011	<0.011
Benzo(a)anthracene	(mg/kg)	0.803	0.18	7.19	7.73	<2.45	11.1	0.019	0.028	<0.011	<0.011
Benzo(a)pyrene	(mg/kg)	0.821	0.19	15.5	15.4	8.5	20.9	0.018	0.03	<0.011	<0.011
Benzo(b)fluoranthene	(mg/kg)	1.33	0.37	13.3	14.3	8.2	22.4	0.015	0.023	<0.011	<0.011
Benzo(ghi)perylene	(mg/kg)	0.307	0.11	4.98	5.61	8.5	7.15	<0.011	0.015	<0.011	<0.011
Benzo(k)fluoranthene	(mg/kg)	0.492	0.13	4.25	4.07	<2.42	7.71	<0.011	<0.012	<0.011	<0.011
Chrysene	(mg/kg)	0.934	0.26	8.45	8.08	4.3	16.7	0.019	0.026	<0.011	<0.011
Dibenzo(a,h)anthracene	(mg/kg)	0.12	<0.063	1.3	1.5	<2.47	1.6	<0.011	<0.012	<0.011	<0.011
Fluoranthene	(mg/kg)	1.7	0.33	7.63	7.11	4.6	18.5	0.029	0.043	<0.011	<0.011
Fluorene	(mg/kg)	0.051	<0.063	5.51	3.25	<2.91	2.3	<0.011	0.017	<0.011	<0.011
Indeno(1,2,3-cd)pyrene	(mg/kg)	0.404	0.1	4.47	4.99	4.4	6.22	<0.011	<0.012	<0.011	<0.011
Naphthalene	(mg/kg)	0.052	0.096	23.9	9.25	<3.53	3.1	0.057	0.1	<0.011	0.02
Phenanthrene	(mg/kg)	0.837	0.14	11.6	7.08	3.3	10.7	0.05	0.085	<0.011	<0.011
Pyrene	(mg/kg)	1.34	0.34	14.5	14.2	8.5	33.1	0.044	0.067	<0.011	<0.011
Toluene	(ug/kg)	3.2	2.7	289	199	211	261	6.1	2	1.7	1.8
Xylene (total)	(ug/kg)	1.8	1.2	1480	1670	624	668	4.5	1.6	1.7	1.8
Ethylbenzene	(ug/kg)	<1.1	<1.1	4720	8490	256	247	2.1	1	<0.8	<0.8
Benzene	(ug/kg)	7.6	3.9	656	752	180	147	10.4	2.6	1.5	1.4

Notes:
ug/kg Micrograms per kilogram
(1) Provisional remediation objective provided by IEPA
----- No remediation objective has been established by the IEPA for this constitiuent for this exposure route
<12 Not detected at the level identified
Analytical result exceeds one or more Tier 1 RO

TABLE 5-19
DUPLICATE RESULTS FOR VOCS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-503 B503-3 (2-3) 7/13/2004 3 Primary	B-503 B503-3D (2-3) 7/13/2004 3 Duplicate 1	B-504 B504-7 (6-7) 7/13/2004 7 Primary	B-504 B504-7D (6-7) 7/13/2004 7 Duplicate 1	B-509 B509-8 (7-8') 7/21/2004 8 Primary	B-509 B509-8D (7-8') 7/21/2004 8 Duplicate 1	B-514 B514-3 (2-3') 7/22/2004 3 Primary	B-514 B514-3D (2-3') 7/22/2004 3 Duplicate 1	B-553 B553-32 (31-32) 7/14/2004 32 Primary	B-553 B553-32D (31-32 7/14/2004 32 Duplicate 1	B-556 B556-28 (27-28' 7/20/2004 28 Primary	B-556 B556-28D (27-28 7/20/2004 28 Duplicate 1	B-559 B559-8 (7-8') 7/19/2004 8 Primary	B-559 B559-8D (7-8') 7/19/2004 8 Duplicate 1
1,1,1-Trichloroethane	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
1,1,2,2-Tetrachloroethane	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
1,1,2-Trichloroethane	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
1,1-Dichloroethane	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
1,1-Dichloroethylene	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
1,2-Dichloroethane	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
1,2-Dichloropropane	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
2-Hexanone	(ug/kg)	<1730	<2330	<8830	<9820	<10.3	<9.6	<11.8	<11.9	<7.3	<7.0	<7.8	<7.3	<256	<9.5
Acetone	(ug/kg)	<1730	<2330	<8830	<9820	31	43	126	120	37.1	19	31	26	460	129
Benzene	(ug/kg)	13900	11100	20800	26300	4.6	4.7	32.6	19.2	3.5	2.1	2.1	1.1	<12.8	2.2
Bromodichloromethane	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Bromoform	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Carbon Disulfide	(ug/kg)	<520	<699	<2650	<2950	<3.1	4.7	10.9	5.9	<2.2	<2.1	<2.3	<2.2	<76.7	<2.9
Carbon tetrachloride	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Chlorobenzene	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Chloroethane	(ug/kg)	<347	<466	<1770	<1960	<2.1	<1.9	<2.4	<2.4	<1.4	<1.4	<1.6	<1.5	<51.1	<1.9
Chloroform	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
cis-1,2-Dichloroethylene	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
cis-1,3-Dichloropropene	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Dibromochloromethane	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Ethene,1,2-dichloro-,(E)-	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Ethylbenzene	(ug/kg)	4240	4030	145000	203000	3.8	3.5	17.4	8	1.5	0.9	2.3	0.8	<25.6	1.7
Methyl bromide	(ug/kg)	<347	<466	<1770	<1960	<2.1	<1.9	<2.4	<2.4	<1.4	<1.4	<1.6	<1.5	<51.1	<1.9
Methyl chloride	(ug/kg)	<347	<466	<1770	<1960	<2.1	<1.9	<2.4	<2.4	<1.4	<1.4	<1.6	<1.5	<51.1	<1.9
Methyl ethyl ketone	(ug/kg)	<1730	<2330	<8830	<9820	<10.3	<9.6	<11.8	<11.9	<7.3	<7.0	<7.8	<7.3	460	18.4
Methyl isobutylketone (MIBK)	(ug/kg)	<1730	<2330	<8830	<9820	<10.3	<9.6	<11.8	<11.9	<7.3	<7.0	<7.8	<7.3	<256	<9.5
Methyl tert-butyl ether	(ug/kg)	<86.6	<117	<441	<491	<0.5	<0.5	<0.6	<0.6	<0.4	<0.4	<0.4	<0.4	<12.8	<0.5
Methylene chloride	(ug/kg)	<173	<233	<883	<982	<1.0	1.7	1.6	1.9	0.8	<0.7	1.1	<0.7	<25.6	1.6
Styrene	(ug/kg)	<173	<233	<883	<982	<1.0	1.4	3.2	2.3	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Tetrachloroethylene	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Toluene	(ug/kg)	6280	5670	10900	14800	1.4	6.9	10.3	5.7	4.5	3	5	2.3	<25.6	5.5
trans-1,3-Dichloropropene	(ug/kg)	<173	<233	<883	<982	<1.0	<1.0	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Trichloroethylene	(ug/kg)	<173	<233	<883	<982	<1.0	1	<1.2	<1.2	<0.7	<0.7	<0.8	<0.7	<25.6	<1.0
Vinyl chloride	(ug/kg)	<86.6	<117	<441	<491	<0.5	<0.5	<0.6	<0.6	<0.4	<0.4	<0.4	<0.4	<12.8	<0.5
Xylene (total)	(ug/kg)	9920	8750	140000	196000	12	13.8	25.4	11.1	3.6	3.1	4.6	2.2	46	5.2

Notes:
- mg/kg — Milligrams per kilogram
- (1) — Provisional remediation objective provided by IEPA
- ----- — No remediation objective has been established by the IEPA for this constituent for this exposure route
- <12 — Not detected at the level identified
- Analytical result exceeds one or more Tier 1 RO

TABLE 5-20
DUPLICATE RESULTS FOR SVOCS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-503 B-503-3 7/13/2004 2'-3' Primary	B-503 B-503-3D 7/13/2004 2'-3' Duplicate	B-504 B-504-7 7/13/2004 6'-7' Primary	B-504 B-504-7D 7/13/2004 6'-7' Duplicate	B-509 B-509-8 7/21/2004 7'-8' Primary	B-509 B-509-8D) 7/21/2004 7'-8' Duplicate	B-514 B-514-3 7/22/2004 2'-3' Primary	B-514 B-514-3D 7/22/2004 2'-3' Duplicate	B-553 B-553-32 7/14/2004 31'-32' Primary	B-553 B-553-32D 7/14/2004 31'-32' Duplicate	B-556 B-556-28 7/20/2004 27'-28' Primary	B-556 B-556-28D 7/20/2004 27'-28' Duplicate	B-559 B-559-8 7/19/2004 7'-8' Primary	B-559 B-559-8D 7/19/2004 7'-8' Duplicate
1,2,4-Trichlorobenzene	(mg/kg)	<50.3	<77.4	<60.7	<61.5	<0.856	<4.32	<2.12	<3.19	<0.145	<0.143	<0.143	<0.147	<0.170	<0.163
2,4,5-Trichlorophenol	(mg/kg)	<35.9	<55.3	<43.3	<43.9	<0.611	<3.09	<1.52	<2.28	<0.104	<0.102	<0.102	<0.105	<0.122	<0.116
2,4,6-Trichlorophenol	(mg/kg)	<47.7	<73.3	<57.5	<58.3	<0.811	<4.10	<2.01	<3.03	<0.137	<0.135	<0.135	<0.139	<0.161	<0.154
2,4-Dichlorophenol	(mg/kg)	<45.8	<70.4	<55.2	<55.9	<0.778	<3.93	<1.93	<2.91	<0.132	<0.130	<0.130	<0.134	<0.155	<0.148
2,4-Dimethylphenol	(mg/kg)	<48.0	<73.9	<57.9	<58.7	<0.817	<4.13	<2.03	<3.05	<0.138	<0.137	<0.136	<0.141	<0.162	<0.155
2,4-Dinitrophenol	(mg/kg)	<40.5	<62.2	<48.8	<49.5	<0.688	<3.48	<1.71	<2.57	<0.117	<0.115	<0.115	<0.118	<0.137	<0.131
2,4-Dinitrotoluene	(mg/kg)	<39.3	<60.5	<47.4	<48.1	<0.669	<3.38	<1.66	<2.50	<0.113	<0.112	<0.112	<0.115	<0.133	<0.127
2,6-Dinitrotoluene	(mg/kg)	<40.9	<62.8	<49.3	<49.9	<0.695	<3.51	<1.72	<2.59	<0.118	<0.116	<0.116	<0.120	<0.138	<0.132
2-Chloronaphthalene	(mg/kg)	<45.4	<69.8	<54.7	<55.5	<0.772	<3.90	<1.91	<2.88	<0.131	<0.129	<0.129	<0.133	<0.153	<0.147
2-Chlorophenol	(mg/kg)	<48.0	<73.9	<57.9	<58.7	<0.817	<4.13	<2.03	<3.05	<0.138	<0.137	<0.136	<0.141	<0.162	<0.155
2-Methylnaphthalene	(mg/kg)	<45.0	<69.2	1180	1280	<0.766	<3.87	<1.90	<2.86	<0.130	<0.128	<0.128	<0.132	<0.152	<0.146
3,3-Dichlorobenzidine	(mg/kg)	<32.5	<50.0	<39.2	<39.8	<0.553	<2.80	<1.37	<2.06	<0.094	<0.092	<0.092	<0.095	<0.110	<0.105
4,6-Dinitro-o-cresol	(mg/kg)	<40.9	<62.8	<49.3	<49.9	<0.695	<3.51	<1.72	<2.59	<0.118	<0.116	<0.116	<0.120	<0.138	<0.132
4-Bromophenyl phenyl ether	(mg/kg)	<34.8	<53.5	<42.0	<42.5	<0.592	<2.99	<1.47	<2.21	<0.100	<0.099	<0.099	<0.102	<0.118	<0.113
4-Chlorophenyl phenyl ether	(mg/kg)	<37.4	<57.6	<45.2	<45.8	<0.637	<3.22	<1.58	<2.38	<0.108	<0.106	<0.106	<0.110	<0.127	<0.121
Bis(2-chloroethoxy)methane	(mg/kg)	<44.3	<68.1	<53.4	<54.1	<0.753	<3.80	<1.87	<2.81	<0.128	<0.126	<0.125	<0.129	<0.150	<0.143
Bis(2-chloroethyl)ether	(mg/kg)	<53.7	<82.6	<64.8	<65.7	<0.914	<4.62	<2.27	<3.41	<0.155	<0.153	<0.152	<0.157	<0.182	<0.174
Bis(2-chloroisopropyl)ether	(mg/kg)	<43.1	<66.3	<52.0	<52.7	<0.733	<3.71	<1.82	<2.74	<0.124	<0.123	<0.122	<0.126	<0.146	<0.139
Bis(2-ethylhexyl)phthalate (BEHP)	(mg/kg)	<44.3	<68.1	<53.4	<54.1	<0.753	<3.80	<1.87	<2.81	0.3	0.404	0.25	0.23	0.43	0.28
Butyl benzyl phthalate	(mg/kg)	<38.2	<58.8	<46.1	<46.7	<0.650	<3.28	<1.61	<2.43	<0.110	<0.109	<0.108	<0.112	<0.129	<0.124
Carbazole	(mg/kg)	<46.1	<71.0	<55.7	<56.4	<0.785	<3.97	<1.95	<2.93	<0.133	<0.131	<0.131	<0.135	<0.156	<0.149
Dibenzofuran	(mg/kg)	<47.7	<73.3	69	70	1.6	<4.10	<2.01	<3.03	<0.137	<0.135	<0.135	<0.139	<0.161	<0.154
Diethyl phthalate	(mg/kg)	<36.3	<55.8	<43.8	<44.4	<0.618	<3.12	<1.53	<2.30	<0.105	<0.103	<0.103	<0.106	<0.123	<0.117
Dimethyl phthalate	(mg/kg)	<34.4	<52.9	<41.5	<42.1	<0.585	<2.96	<1.45	<2.18	<0.099	<0.098	<0.098	<0.101	<0.116	<0.111
Di-n-butyl phthalate	(mg/kg)	<39.0	<59.9	<47.0	<47.6	<0.663	<3.35	<1.64	<2.47	<0.112	<0.111	<0.110	<0.114	<0.132	<0.126
Di-n-octyl phthalate	(mg/kg)	<39.3	<60.5	<47.4	<48.1	<0.669	<3.38	<1.66	<2.50	<0.113	<0.112	<0.112	<0.115	<0.133	<0.127
Hexachlorobenzene	(mg/kg)	<37.1	<57.0	<44.7	<45.3	<0.630	<3.19	<1.56	<2.35	<0.107	<0.105	<0.105	<0.108	<0.125	<0.120
Hexachlorobutadiene	(mg/kg)	<58.6	<90.2	<70.7	<71.7	<0.997	<5.04	<2.47	<3.72	<0.169	<0.167	<0.166	<0.172	<0.198	<0.190
Hexachlorocyclopentadiene	(mg/kg)	<38.6	<59.3	<46.5	<47.2	<0.656	<3.32	<1.63	<2.45	<0.111	<0.110	<0.109	<0.113	<0.130	<0.125
Hexachloroethane	(mg/kg)	<63.2	<97.1	<76.2	<77.2	<1.07	<5.43	<2.67	<4.01	<0.182	<0.180	<0.179	<0.185	<0.214	<0.204
Isophorone	(mg/kg)	<44.6	<68.6	<53.8	<54.6	<0.759	<3.84	<1.88	<2.83	<0.129	<0.127	<0.127	<0.131	<0.151	<0.144
m & p-Cresol(s)	(mg/kg)	<47.7	<73.3	<57.5	<58.3	<0.811	<4.10	<2.01	<3.03	<0.137	<0.135	<0.135	<0.139	<0.161	<0.154
m-Dichlorobenzene	(mg/kg)	<63.5	<97.7	<76.6	<77.7	<1.08	<5.46	<2.68	<4.03	<0.183	<0.181	<0.180	<0.186	<0.215	<0.206
m-Nitroaniline	(mg/kg)	<31.0	<47.7	<37.4	<37.9	<0.528	<2.67	<1.31	<1.97	<0.089	<0.088	<0.088	<0.091	<0.105	<0.100
Nitrobenzene	(mg/kg)	<47.3	<72.7	<57.0	<57.8	<0.804	<4.06	<1.99	<3.00	<0.136	<0.134	<0.134	<0.138	<0.160	<0.153
N-Nitrosodiphenylamine	(mg/kg)	<34.8	<53.5	<42.0	<42.5	<0.592	<2.99	<1.47	<2.21	<0.100	<0.099	<0.099	<0.102	<0.118	<0.113
N-Nitrosodipropylamine	(mg/kg)	<41.6	<64.0	<50.2	<50.9	<0.708	<3.58	<1.76	<2.64	<0.120	<0.118	<0.118	<0.122	<0.141	<0.135
o-Cresol	(mg/kg)	<44.6	<68.6	<53.8	<54.6	<0.759	<3.84	<1.88	<2.83	<0.129	<0.127	<0.127	<0.131	<0.151	<0.144
o-Dichlorobenzene	(mg/kg)	<60.1	<92.5	<72.5	<73.5	<1.02	<5.17	<2.54	<3.82	<0.173	<0.171	<0.171	<0.176	<0.203	<0.195
o-Nitroaniline	(mg/kg)	<34.4	<52.9	<41.5	<42.1	<0.585	<2.96	<1.45	<2.18	<0.099	<0.098	<0.098	<0.101	<0.116	<0.111
o-Nitrophenol	(mg/kg)	<42.4	<65.1	<51.1	<51.8	<0.721	<3.64	<1.79	<2.69	<0.122	<0.120	<0.120	<0.124	<0.143	<0.137
p-Chloroaniline	(mg/kg)	<45.8	<70.4	<55.2	<55.9	<0.778	<3.93	<1.93	<2.91	<0.132	<0.130	<0.130	<0.134	<0.155	<0.148
p-Chloro-m-cresol	(mg/kg)	<41.6	<64.0	<50.2	<50.9	<0.708	<3.58	<1.76	<2.64	<0.120	<0.118	<0.118	<0.122	<0.141	<0.135
PCP	(mg/kg)	<250	<384	<301	<305	<4.25	<21.5	<10.5	<15.8	<0.720	<0.710	<0.708	<0.730	<0.844	<0.807
p-Dichlorobenzene	(mg/kg)	<60.1	<92.5	<72.5	<73.5	<1.02	<5.17	<2.54	<3.82	<0.173	<0.171	<0.171	<0.176	<0.203	<0.195
Phenol	(mg/kg)	<43.9	<67.5	<52.9	<53.6	<0.746	<3.77	<1.85	<2.79	<0.126	<0.125	<0.124	<0.128	<0.148	<0.142
p-Nitroaniline	(mg/kg)	<34.4	<52.9	<41.5	<42.1	<0.585	<2.96	<1.45	<2.18	<0.099	<0.098	<0.098	<0.101	<0.116	<0.111
p-Nitrophenol	(mg/kg)	<37.1	<57.0	<44.7	<45.3	<0.630	<3.19	<1.56	<2.35	<0.107	<0.105	<0.105	<0.108	<0.125	<0.120

Notes:
- mg/kg — Milligrams per kilogram
- (1) — Provisional remediation objective provided by IEPA
- ----- — No remediation objective has been established by the IEPA for this constituent for this exposure route
- <12 — Not detected at the level identified
- Analytical result exceeds one or more Tier 1 RO

TABLE 5-21
DUPLICATE RESULTS FOR METALS AND CYANIDE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-503 B503-3 (2-3) 7/13/2004 3 Primary	B-503 B503-3D (2-3) 7/13/2004 3 Duplicate 1	B-504 B504-7 (6-7) 7/13/2004 7 Primary	B-504 B504-7D (6-7) 7/13/2004 7 Duplicate 1	B-509 B509-8 (7-8') 7/21/2004 8 Primary	B-509 B509-8D (7-8') 7/21/2004 8 Duplicate 1	B-513 B513-2 (1-2) 7/12/2004 2 Primary	B-513 B513-2D (1-2) 7/12/2004 2 Duplicate 1	B-514 B514-3 (2-3') 7/22/2004 3 Primary
Cyanide	(mg/kg)	11.7	63.3	---	---	---	---	17	13.8	16.6
Arsenic	(mg/kg)	8.31	2.68	<2.31	5.86	12.7	16.5	13.6	10.6	11.3
Barium	(mg/kg)	99.6	41.3	63.8	60.6	117	165	129	124	128
Cadmium	(mg/kg)	0.3	0.23	0.31	0.38	0.1	0.33	0.36	0.15	0.29
Chromium	(mg/kg)	18.1	17.2	14.7	11.7	16.8	20	22.4	19.2	15.7
Lead	(mg/kg)	202	67.6	16.4	22	13.8	19.1	470	83.6	113
Mercury	(mg/kg)	0.167	0.172	0.026	0.048	0.028	0.041	0.352	0.053	4.2
Selenium	(mg/kg)	<4.00	<3.85	<3.70	<1.85	<3.92	<4.00	<4.00	<4.00	<3.85
Silver	(mg/kg)	<1.00	<0.96	<0.93	<0.46	<0.98	<1.00	<1.00	<1.00	<0.96

Notes:
- mg/kg — Milligrams per kilogram
- (1) — Provisional remediation objective provided by IEPA
- ----- — No remediation objective has been established by the IEPA for this constitiuent for this exposure route
- <12 — Not detected at the level identified
- Analytical result exceeds one or more Tier 1 RO

TABLE 5-21
DUPLICATE RESULTS FOR METALS AND CYANIDE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-514 B514-3D (2-3') 7/22/2004 3 Duplicate 1	B-553 B553-32 (31-32) 7/14/2004 32 Primary	B-553 B553-32D (31-32 7/14/2004 32 Duplicate 1	B-556 B556-28 (27-28' 7/20/2004 28 Primary	B-556 B556-28D (27-28 7/20/2004 28 Duplicate 1	B-559 B559-8 (7-8') 7/19/2004 8 Primary	B-559 B559-8D (7-8') 7/19/2004 8 Duplicate 1
Cyanide	(mg/kg)	18.3	---	---	---	---	---	---
Arsenic	(mg/kg)	13.4	5.46	2.98	3.69	2.2	14.5	8.95
Barium	(mg/kg)	134	14.6	11.9	17.2	16.8	226	147
Cadmium	(mg/kg)	0.45	<0.20	<0.19	<0.19	<0.19	0.54	0.44
Chromium	(mg/kg)	20.9	10.1	10.5	11.4	11.2	23.5	24.2
Lead	(mg/kg)	208	8.62	6.92	9.94	9.49	18.7	20.6
Mercury	(mg/kg)	4.46	0.009	0.007	0.008	0.009	0.049	0.056
Selenium	(mg/kg)	<3.85	<4.00	<3.77	<3.77	<3.70	<4.00	<3.77
Silver	(mg/kg)	<0.96	<1.00	<0.94	<0.94	<0.93	<1.00	<0.94

Notes:	mg/kg	mg/kg	Milligrams per kilogram
	(1)	(1)	Provisional remediation objective provided by IEPA
	-----	-----	No remediation objective has been established by the IEPA for this constituent for this exposure route
	<12	<12	Not detected at the level identified
			Analytical result exceeds one or more Tier 1 RO

TABLE 6-1
MANUFACTURED GAS PLANT RELATED CONSTITUENTS OF CONCERN
COMPREHENSIVE SITE INVESTIGATION REPORT
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

SOIL	***GROUNDWATER***
Inorganics	
Cyanide	
Metals	
Chromium	
Lead	
Arsenic	
Volatile Aromatics	**Volatile Aromatics**
Benzene	Benzene
Ethylbenzene	Ethylbenzene
Toluene	Toluene
Total Xylenes	
Styrene	
Acetone	
Methylene Chloride	
Polycylic Aromatic Hydrocarbons	**Polycylic Aromatic Hydrocarbons**
Acenaphthene	Acenaphthene
Acenaphthylene	Acenaphthylene
Benzo(a)anthracene	Benzo(a)anthracene
Benzo(a)pyrene	Benzo(a)pyrene
Benzo(b)fluoranthene	Benzo(b)fluoranthene
Benzo(k)fluoranthene	Chrysene
Chrysene	Fluoranthene
Dibenzo (a,h,)anthracene	Fluorene
Dibenzofuran	Indeno(1,2,3,cd)pyrene
Fluorene	Naphthalene
Indeno(1,2,3,cd)pyrene	Phenanthrene
Naphthalene	Pyrene
Phenanthrene	
2-methylnaphthalene	

Table 6-2

TOC SAMPLE SUMMARY
CHAMPAIGN MGP SITE
CHAMPAIGN , ILLINOIS
AMERENIP

Location	Depth (Feet)	Soil Type	TOC (mg/kg)
CHPH 200-01	1	fill	16,900
CHPH 201-01	1	fill	23,100
CHPH 202-01	1	fill (coal)	276,000
CHPH 203-01	1	fill (coal)	111,000
CHPH 200-02	5	Silty CLAY	2,230
CHPH 201-02	9	CLAY	3,230
CHPH 202-02	10	CLAY	1,650
CHPH 203-02	10	Silty CLAY	11,500
CHPH 200-03	14	Sandy CLAY	13,600
CHPH 201-03	15	CLAY	7,300
CHPH 202-03	15	CLAY	2,570
CHPH 203-03	15	Silty CLAY	3,010

Notes:
mg/kg - milligrams per kilogram
TOC - total organic carbon
Average TOC for depths of 0'-3', 3'-10', and greater than 10'

Table 6-3

SOIL ATTENUATION SOURCE EVALUATION
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Location	Depth (Feet)	TPH (mg/kg)	TOC
B-504-3	2-3	19,920	6000[1]
TP-503-3	3	24,730	6000[1]
TP-504-3	3	6,690	6000[1]
B-505-6	5-6	31,110	2000[1]
B-516-5	4-5	5,410	2000[1]
TP-507-3.5	3.5	12,510	2000[1]
TP-508-4	4	28,630	2000[1]
B-504-21	20-21	11,040	4293[2]
B-506-17	16-17	12,900	4293[2]
B-507-19	18-19	23,215	4293[2]
B-514-17	16-17	60,700	4293[2]
B-553-24	23-24	49,310	4293[2]
B-554-18	17-18	6,670	4293[2]
B-562-14	13-14	6,220	4293[2]

Notes:
TPH - Total petroleum hydrocarbons
mg/kg - milligrams per kilogram
[1] - Default value from IAC 742
[2] - Average TOC value from samples CHPH-200-02, CHPH-201-02, and CHPH -202-02

TABLE 6-4
GROUNDWATER RESULTS BTEX, PAHs, and METALS - 2004 Data
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-102 7/26/2004	UMW-102 3/15/2005	UMW-102 6/9/2005	UMW-102 9/27/2005	UMW-102 12/27/2005	UMW-102 6/22/2006	UMW-102 9/19/2006	UMW-102 12/13/2006	UMW-102 9/21/2007	UMW-104 7/26/2004	UMW-105 7/26/2004	UMW-105 3/15/2005	UMW-106 7/26/2004	UMW-107 7/26/2004	UMW-107 3/15/2005
Benzene	(ug/l)	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	760	589
Ethylbenzene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<250	36
Toluene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<250	4
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1.4	1.4	<5.0	<5.0	<5.0	<5.0	77	64.1
Acenaphthene	(ug/l)	420	<3.00	---	---	---	---	---	---	---	---	<3.00	<3.00	---	<3.00	<3.00	<3.00
Acenaphthylene	(ug/l)	210	<1.50	---	---	---	---	---	---	---	---	<1.50	<1.50	---	<1.50	<1.50	<7.5
Anthracene	(ug/l)	2100	<0.30	---	---	---	---	---	---	---	---	<0.30	<0.30	---	<0.30	<0.30	<0.30
Benzo(a)anthracene	(ug/l)	1.3	<0.09	---	---	---	---	---	---	---	---	<0.09	<0.09	---	<0.09	<0.09	<0.09
Benzo(a)pyrene	(ug/l)	0.2	<0.12	---	---	---	---	---	---	---	---	<0.12	<0.12	---	<0.12	<0.12	<0.12
Benzo(b)fluoranthene	(ug/l)	0.18	<0.15	---	---	---	---	---	---	---	---	<0.15	<0.15	---	<0.15	<0.15	<0.15
Benzo(ghi)perylene	(ug/l)	---	<0.30	---	---	---	---	---	---	---	---	<0.30	<0.30	---	<0.30	<0.30	<0.30
Benzo(k)fluoranthene	(ug/l)	0.17	<0.15	---	---	---	---	---	---	---	---	<0.15	<0.15	---	<0.15	<0.15	<0.15
Chrysene	(ug/l)	1.5	<0.45	---	---	---	---	---	---	---	---	<0.45	<0.45	---	<0.45	<0.45	<0.45
Dibenzo(a,h)anthracene	(ug/l)	0.3	<0.18	---	---	---	---	---	---	---	---	<0.18	<0.18	---	<0.18	<0.18	<0.18
Fluoranthene	(ug/l)	280	<0.90	---	---	---	---	---	---	---	---	<0.90	<0.90	---	<0.90	<0.90	<0.90
Fluorene	(ug/l)	280	<0.30	---	---	---	---	---	---	---	---	<0.30	<0.30	---	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	<0.30	---	---	---	---	---	---	---	---	<0.30	<0.30	---	<0.30	<0.30	<0.30
Naphthalene	(ug/l)	140	<3.00	---	---	---	---	---	---	---	---	<3.00	<3.00	---	<3.00	87.7	53.2
Phenanthrene	(ug/l)	210	<0.60	---	---	---	---	---	---	---	---	<0.60	<0.60	---	<0.60	<0.60	<0.60
Pyrene	(ug/l)	210	<0.30	---	---	---	---	---	---	---	---	<0.30	<0.30	---	<0.30	<0.30	<0.30

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater Standard

TABLE 6-4
GROUNDWATER RESULTS BTEX, PAHs, and METALS - 2004 Data
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-107 6/9/2005	UMW-107 9/27/2005	UMW-107 12/27/2005	UMW-107 6/22/2006	UMW-107 9/19/2006	UMW-107 12/13/2006	UMW-107 6/14/2007	UMW-107 9/21/2007	UMW-108 7/26/2004	UMW-108 3/15/2005	UMW-108 6/9/2005	UMW-108 9/27/2005	UMW-108 12/27/2005	UMW-108 6/22/2006	UMW-108 9/19/2006
Benzene	(ug/l)	5	549	344	998	289	1280	812	798	1020	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	(ug/l)	1000	27.8	17.1	45.8	18.2	69.1	44.1	32	55.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	700	<25.0	2.6	5.7	2.4	11	7.1	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	49.2	32.1	54.6	30.7	81.2	55.2	43	71.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthene	(ug/l)	420	<3.00	<3.00	<3.00	<3.00	<3.00	<0.10	<1.00	<5.0	<3.00	---	---	---	---	---	---
Acenaphthylene	(ug/l)	210	44.5	<1.50	<1.50	<1.50	5.38	0.2	<1.00	0.19	<1.50	---	---	---	---	---	---
Anthracene	(ug/l)	2100	<0.30	<0.30	<0.30	<0.30	<0.30	0.14	<1.00	0.13	<0.30	---	---	---	---	---	---
Benzo(a)anthracene	(ug/l)	1.3	<0.09	<0.09	<0.09	<0.09	<0.09	<0.10	<1.00	<0.13	<0.09	---	---	---	---	---	---
Benzo(a)pyrene	(ug/l)	0.2	<0.12	<0.12	<0.12	<0.12	<0.12	<0.10	<1.00	<0.20	<0.12	---	---	---	---	---	---
Benzo(b)fluoranthene	(ug/l)	0.18	<0.15	<0.15	<0.15	<0.15	<0.15	<0.10	<1.00	<0.18	<0.15	---	---	---	---	---	---
Benzo(ghi)perylene	(ug/l)	---	<0.30	<0.30	<0.30	<0.30	<0.30	<0.10	1.1	<0.50	<0.30	---	---	---	---	---	---
Benzo(k)fluoranthene	(ug/l)	0.17	<0.15	<0.15	<0.15	<0.15	<0.15	<0.10	<1.00	<0.17	<0.15	---	---	---	---	---	---
Chrysene	(ug/l)	1.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.10	<1.00	<0.15	<0.45	---	---	---	---	---	---
Dibenzo(a,h)anthracene	(ug/l)	0.3	<0.18	<0.18	<0.18	<0.18	<0.18	<0.10	<1.00	<0.30	<0.18	---	---	---	---	---	---
Fluoranthene	(ug/l)	280	<0.90	<0.90	<0.90	<0.90	<0.90	<0.10	<1.00	<0.10	<0.90	---	---	---	---	---	---
Fluorene	(ug/l)	280	<0.30	<0.30	<0.30	<0.30	<0.30	<0.10	<1.00	<2.0	<0.30	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	<0.30	<0.30	<0.30	<0.30	<0.30	<0.10	<1.00	<0.43	<0.30	---	---	---	---	---	---
Naphthalene	(ug/l)	140	99.4	82.6	181	106	243	161	170	160	<3.00	---	---	---	---	---	---
Phenanthrene	(ug/l)	210	<0.60	<0.60	<0.60	<0.60	<0.60	<0.10	<1.00	0.1	<0.60	---	---	---	---	---	---
Pyrene	(ug/l)	210	<0.30	<0.30	<0.30	<0.30	<0.30	<0.10	<1.00	<2.0	<0.30	---	---	---	---	---	---

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater St

TABLE 6-4
GROUNDWATER RESULTS BTEX, PAHs, and METALS - 2004 Data
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-108 12/13/2006	UMW-108 6/14/2007	UMW-108 9/14/2007	UMW-109 7/26/2004	UMW-110 7/26/2004	UMW-111A 7/26/2004	UMW-111A 3/15/2005	UMW-111A 6/9/2005	UMW-111A 9/27/2005	UMW-111A 12/27/2005	UMW-111A 6/22/2006	UMW-111A 9/19/2006	UMW-111A 12/13/2006	UMW-111A 6/14/2007	UMW-111A 9/21/2007
Benzene	(ug/l)	5	<2.0	<2.0	<2.0	<2.0	15.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	2.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	67.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	37.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthene	(ug/l)	420	---	---	---	<3.00	87.6	<3.00	---	---	---	---	---	---	---	---	---
Acenaphthylene	(ug/l)	210	---	---	---	<1.50	92.6	<1.50	---	---	---	---	---	---	---	---	---
Anthracene	(ug/l)	2100	---	---	---	<0.30	15.1	<0.30	---	---	---	---	---	---	---	---	---
Benzo(a)anthracene	(ug/l)	1.3	---	---	---	<0.09	0.33	<0.09	---	---	---	---	---	---	---	---	---
Benzo(a)pyrene	(ug/l)	0.2	---	---	---	<0.12	<0.12	<0.12	---	---	---	---	---	---	---	---	---
Benzo(b)fluoranthene	(ug/l)	0.18	---	---	---	<0.15	<0.15	<0.15	---	---	---	---	---	---	---	---	---
Benzo(ghi)perylene	(ug/l)	---	---	---	---	<0.30	<0.30	<0.30	---	---	---	---	---	---	---	---	---
Benzo(k)fluoranthene	(ug/l)	0.17	---	---	---	<0.15	<0.15	<0.15	---	---	---	---	---	---	---	---	---
Chrysene	(ug/l)	1.5	---	---	---	<0.45	<0.45	<0.45	---	---	---	---	---	---	---	---	---
Dibenzo(a,h)anthracene	(ug/l)	0.3	---	---	---	<0.18	<0.18	<0.18	---	---	---	---	---	---	---	---	---
Fluoranthene	(ug/l)	280	---	---	---	<0.90	12.1	<0.90	---	---	---	---	---	---	---	---	---
Fluorene	(ug/l)	280	---	---	---	<0.30	7.66	<0.30	---	---	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	---	---	---	<0.30	<0.30	<0.30	---	---	---	---	---	---	---	---	---
Naphthalene	(ug/l)	140	---	---	---	<3.00	24.6	<3.00	---	---	---	---	---	---	---	---	---
Phenanthrene	(ug/l)	210	---	---	---	<0.60	26.7	<0.60	---	---	---	---	---	---	---	---	---
Pyrene	(ug/l)	210	---	---	---	<0.30	5.25	<0.30	---	---	---	---	---	---	---	---	---

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater St

TABLE 6-4
GROUNDWATER RESULTS BTEX, PAHs, and METALS - 2004 Data
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-112 7/26/2004	UMW-112 3/15/2005	UMW-112 6/9/2005	UMW-112 9/27/2005	UMW-112 12/27/2005	UMW-112 6/22/2006	UMW-112 9/19/2006	UMW-112 12/13/2006	UMW-112 6/14/2007	UMW-112 9/21/2007	UMW-113 7/26/2004	UMW-114 7/26/2004	UMW-114 3/15/2005	UMW-114 6/9/2005	UMW-114 9/27/2005
Benzene	(ug/l)	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.7	628	726	867	1130
Ethylbenzene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	120	1240	1260	1370
Toluene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1	868	163	152	190
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	4.8	425	920	932	1010
Acenaphthene	(ug/l)	420	<3.00	---	---	---	---	---	---	---	---	---	33.9	214	101	222	208
Acenaphthylene	(ug/l)	210	<1.50	---	---	---	---	---	---	---	---	---	70.7	552	<15.0	<7.5	<7.5
Anthracene	(ug/l)	2100	<0.30	---	---	---	---	---	---	---	---	---	<0.30	1.04	<0.3	<0.3	8.2
Benzo(a)anthracene	(ug/l)	1.3	<0.09	---	---	---	---	---	---	---	---	---	<0.09	<0.09	0.2	<0.09	<0.09
Benzo(a)pyrene	(ug/l)	0.2	<0.12	---	---	---	---	---	---	---	---	---	<0.12	<0.12	0.14	<0.12	<0.12
Benzo(b)fluoranthene	(ug/l)	0.18	<0.15	---	---	---	---	---	---	---	---	---	<0.15	<0.15	<0.15	<0.15	<0.15
Benzo(ghi)perylene	(ug/l)	---	<0.30	---	---	---	---	---	---	---	---	---	<0.30	<0.30	<0.30	<0.3	<0.3
Benzo(k)fluoranthene	(ug/l)	0.17	<0.15	---	---	---	---	---	---	---	---	---	<0.15	<0.15	<0.15	<0.15	<0.15
Chrysene	(ug/l)	1.5	<0.45	---	---	---	---	---	---	---	---	---	<0.45	<0.45	<0.45	<0.45	<0.45
Dibenzo(a,h)anthracene	(ug/l)	0.3	<0.18	---	---	---	---	---	---	---	---	---	<0.18	<0.18	<0.18	<0.18	<0.18
Fluoranthene	(ug/l)	280	<0.90	---	---	---	---	---	---	---	---	---	<0.90	0.99	0.94	1.07	1.09
Fluorene	(ug/l)	280	<0.30	---	---	---	---	---	---	---	---	---	2.36	20.6	48.4	64.1	44.4
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	<0.30	---	---	---	---	---	---	---	---	---	<0.30	<0.30	<0.3	<0.3	<0.3
Naphthalene	(ug/l)	140	<3.00	---	---	---	---	---	---	---	---	---	580	3650	7570	5920	11500
Phenanthrene	(ug/l)	210	<0.60	---	---	---	---	---	---	---	---	---	5990	7.48	11	10.2	9.87
Pyrene	(ug/l)	210	<0.30	---	---	---	---	---	---	---	---	---	6020	0.64	0.66	0.65	0.4

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater St

TABLE 6-4
GROUNDWATER RESULTS BTEX, PAHs, and METALS - 2004 Data
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-114 12/27/2005	UMW-114 6/22/2006	UMW-114 9/19/2006	UMW-114 12/13/2006	UMW-114 6/14/2007	UMW-114 9/21/2007	UMW-115 7/26/2004	UMW-115 3/15/2005	UMW-115 6/9/2005	UMW-115 9/27/2005	UMW-115 12/27/2005	UMW-115 6/22/2006	UMW-115 9/19/2006	UMW-115 12/13/2006	UMW-115 6/14/2007
Benzene	(ug/l)	5	939	936	938	1130	1150	1120	12.9	5.2	8.3	12.5	4.1	11.7	7	4.4	9
Ethylbenzene	(ug/l)	1000	1150	1140	1220	1170	1160	1060	<5.0	<5.0	<5.0	1.9	<5.0	<5.0	1.4	<5.0	<5.0
Toluene	(ug/l)	700	133	131	150	150	170	130	1.2	<5.0	1.1	1.1	<5.0	1.4	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	891	1020	924	984	963	861	<5.0	<5.0	<5.0	<5.0	<5.0	1.0	1.2	1.2	<5.0
Acenaphthene	(ug/l)	420	236	159	111	140	158	86	13.5	---	---	---	---	---	---	---	---
Acenaphthylene	(ug/l)	210	<7.5	868	<15.0	22	85.9	19.7	26.4	---	---	---	---	---	---	---	---
Anthracene	(ug/l)	2100	<3.0	1.8	<0.3	1.17	21.3	1.3	<0.30	---	---	---	---	---	---	---	---
Benzo(a)anthracene	(ug/l)	1.3	1.1	0.91	0.2	0.16	1.6	0.25	<0.09	---	---	---	---	---	---	---	---
Benzo(a)pyrene	(ug/l)	0.2	1.07	0.97	<0.12	0.11	<0.50	0.13	<0.12	---	---	---	---	---	---	---	---
Benzo(b)fluoranthene	(ug/l)	0.18	0.49	0.30	<0.15	<0.10	<0.50	<0.18	<0.15	---	---	---	---	---	---	---	---
Benzo(ghi)perylene	(ug/l)	---	0.44	0.68	<0.30	<0.10	<0.50	<0.50	<0.30	---	---	---	---	---	---	---	---
Benzo(k)fluoranthene	(ug/l)	0.17	<0.15	<0.15	<0.15	<0.10	<0.50	<0.17	<0.15	---	---	---	---	---	---	---	---
Chrysene	(ug/l)	1.5	1.22	0.93	<0.45	<0.10	<0.50	0.17	<0.45	---	---	---	---	---	---	---	---
Dibenzo(a,h)anthracene	(ug/l)	0.3	<0.18	<0.18	<0.18	<0.10	<0.50	<0.30	<0.18	---	---	---	---	---	---	---	---
Fluoranthene	(ug/l)	280	4.66	3.38	<0.9	0.56	0.7	0.85	<0.90	---	---	---	---	---	---	---	---
Fluorene	(ug/l)	280	68.6	42.8	<0.3	17.4	18.1	17.8	8.46	---	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	0.31	0.30	<0.3	<0.10	<0.50	<.043	<0.30	---	---	---	---	---	---	---	---
Naphthalene	(ug/l)	140	5980	7510	7880	5980	6440	5560	<3.00	---	---	---	---	---	---	---	---
Phenanthrene	(ug/l)	210	12.8	14.0	11.1	5.84	6.0	6.18	<0.60	---	---	---	---	---	---	---	---
Pyrene	(ug/l)	210	2.29	2.74	0.55	0.83	0.95	1.4	<0.30	---	---	---	---	---	---	---	---

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater St

TABLE 6-4
GROUNDWATER RESULTS BTEX, PAHs, and METALS - 2004 Data
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-115 9/21/2007	UMW-116 7/26/2004	UMW-116 3/15/2005	UMW-116 6/9/2005	UMW-116 9/27/2005	UMW-116 12/27/2005	UMW-116 6/22/2006	UMW-116 9/16/2006	UMW-116 12/13/2006	UMW-116 6/14/2007	UMW-116 6/14/2007	UMW-116 9/14/2007
Benzene	(ug/l)	5	12.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	(ug/l)	1000	1.8	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	700	1.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	1.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthene	(ug/l)	420	---	<3.00	---	---	---	---	---	---	---	---	---	---
Acenaphthylene	(ug/l)	210	---	<1.50	---	---	---	---	---	---	---	---	---	---
Anthracene	(ug/l)	2100	---	<0.30	---	---	---	---	---	---	---	---	---	---
Benzo(a)anthracene	(ug/l)	1.3	---	<0.09	---	---	---	---	---	---	---	---	---	---
Benzo(a)pyrene	(ug/l)	0.2	---	<0.12	---	---	---	---	---	---	---	---	---	---
Benzo(b)fluoranthene	(ug/l)	0.18	---	<0.15	---	---	---	---	---	---	---	---	---	---
Benzo(ghi)perylene	(ug/l)	---	---	<0.30	---	---	---	---	---	---	---	---	---	---
Benzo(k)fluoranthene	(ug/l)	0.17	---	<0.15	---	---	---	---	---	---	---	---	---	---
Chrysene	(ug/l)	1.5	---	<0.45	---	---	---	---	---	---	---	---	---	---
Dibenzo(a,h)anthracene	(ug/l)	0.3	---	<0.18	---	---	---	---	---	---	---	---	---	---
Fluoranthene	(ug/l)	280	---	<0.90	---	---	---	---	---	---	---	---	---	---
Fluorene	(ug/l)	280	---	<0.30	---	---	---	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	(ug/l)	0.43	---	<0.30	---	---	---	---	---	---	---	---	---	---
Naphthalene	(ug/l)	140	---	<3.00	---	---	---	---	---	---	---	---	---	---
Phenanthrene	(ug/l)	210	---	<0.60	---	---	---	---	---	---	---	---	---	---
Pyrene	(ug/l)	210	---	<0.30	---	---	---	---	---	---	---	---	---	---

Notes:
ug/l - micrograms per liter
<2.0 - not detected at the detection limit noted
Exceeds the Class 1 Groundwater St

List of Figures

LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- 12 — LOT LINE AND LOT NUMBER
- FENCE

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

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FEET

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PSC

TITLE:
SRP SITE BOUNDARY

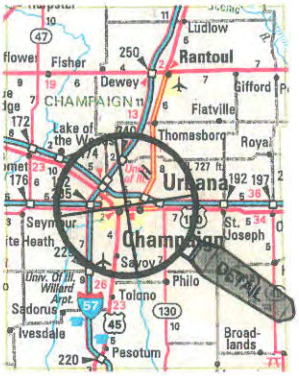
DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 05/01/07	REV:

PROJECT NO: 62402647
AMERENIP
CHAMPAIGN, ILLINOIS

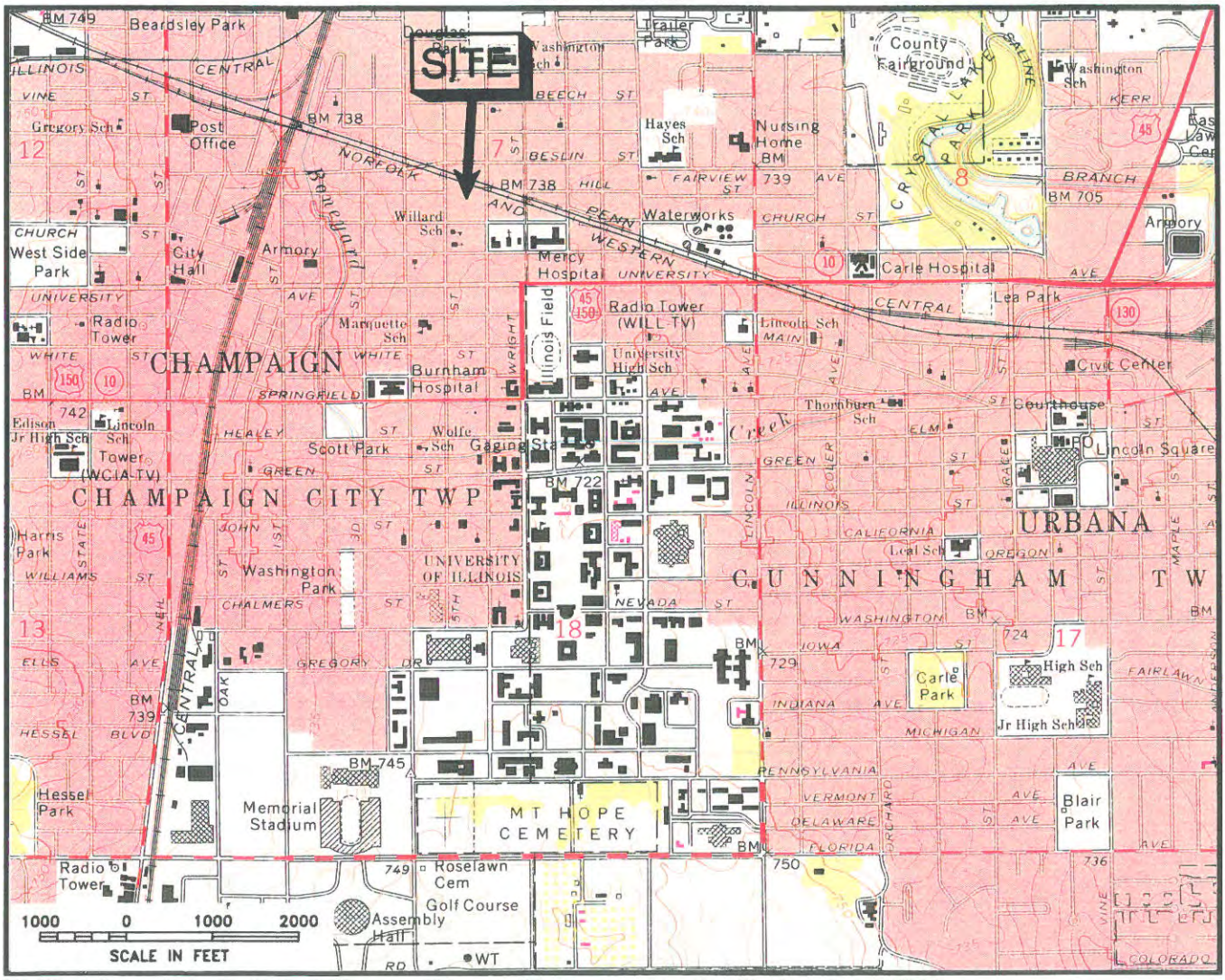
FIGURE ES–1

ILLINOIS

CHAMPAIGN COUNTY



AREA IN DETAIL



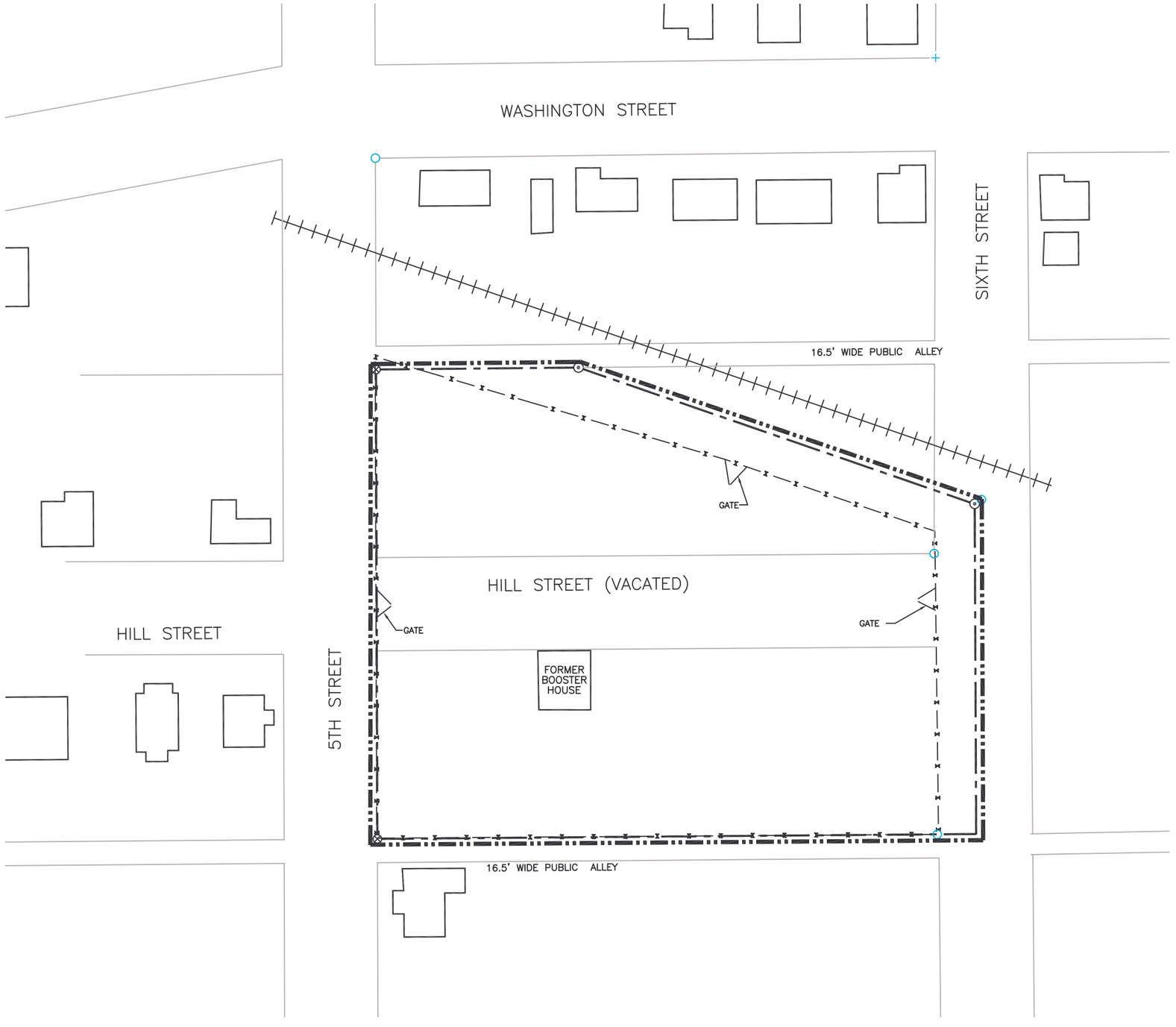
Modified from U.S. Geological Survey, Urbana, Illinois, quadrangle, Photorevised 1975.

SCALE IS VARIABLE

N

PSC	TITLE: SITE LOCATION MAP	DWN: TMM / DES.: SPB	PROJECT NO.: 62400345 AMEREN IP CHAMPAIGN, ILLINOIS
		CHKD: / APPD:	
		DATE: 2/24/00 / REV.: 0	FIGURE 1-1

COL 624\00345E-001



LEGEND

- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

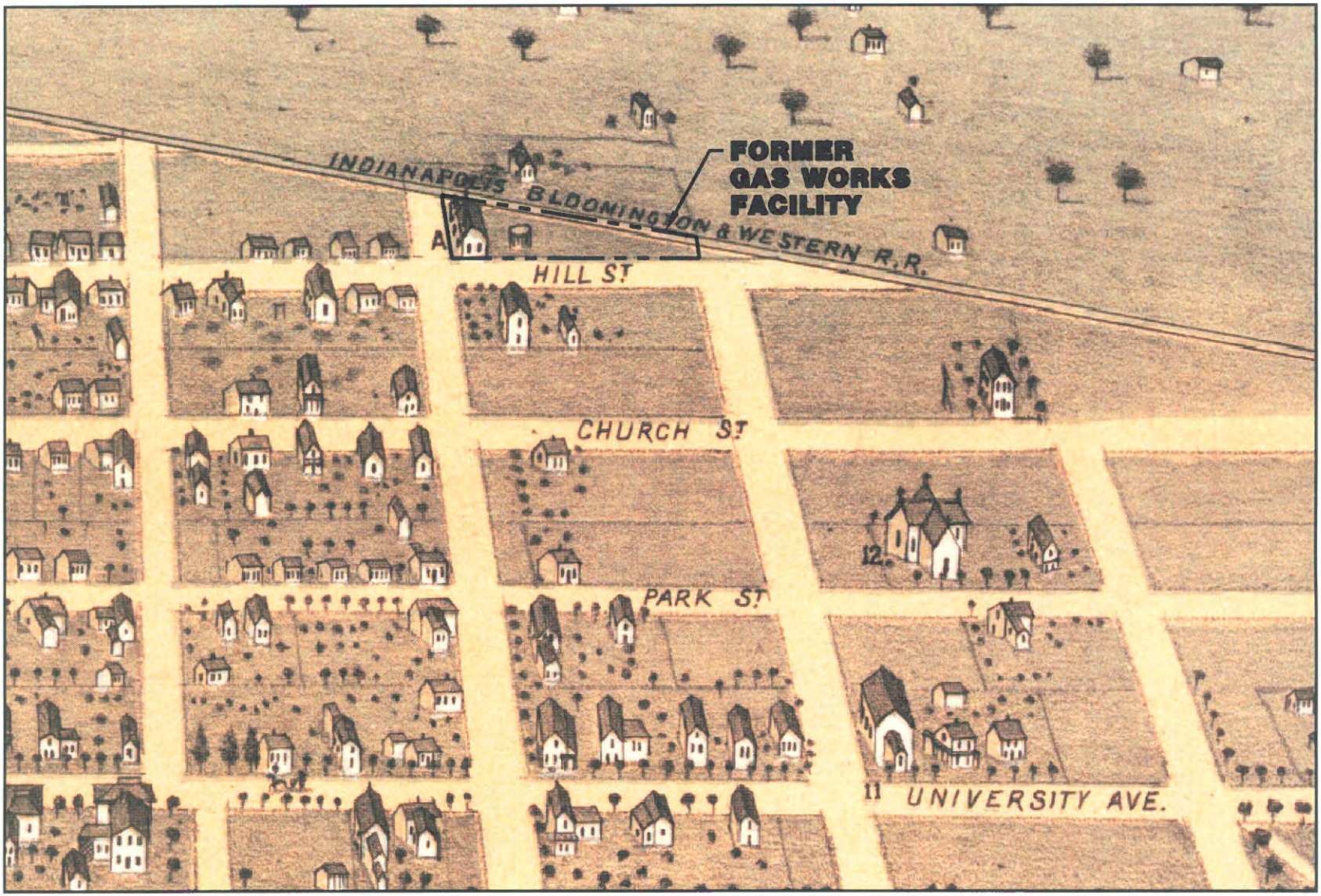
0 80
FEET
N

COL J:\624\026478-029

PSC

TITLE:
SITE MAP

DWN:	DES:	PROJECT NO: 62402647
TMM	MRC	AMERENIP
CHKD:	APPD:	CHAMPAIGN, ILLINOIS
DATE: 12/14/07	REV:	FIGURE 1-2



PSC

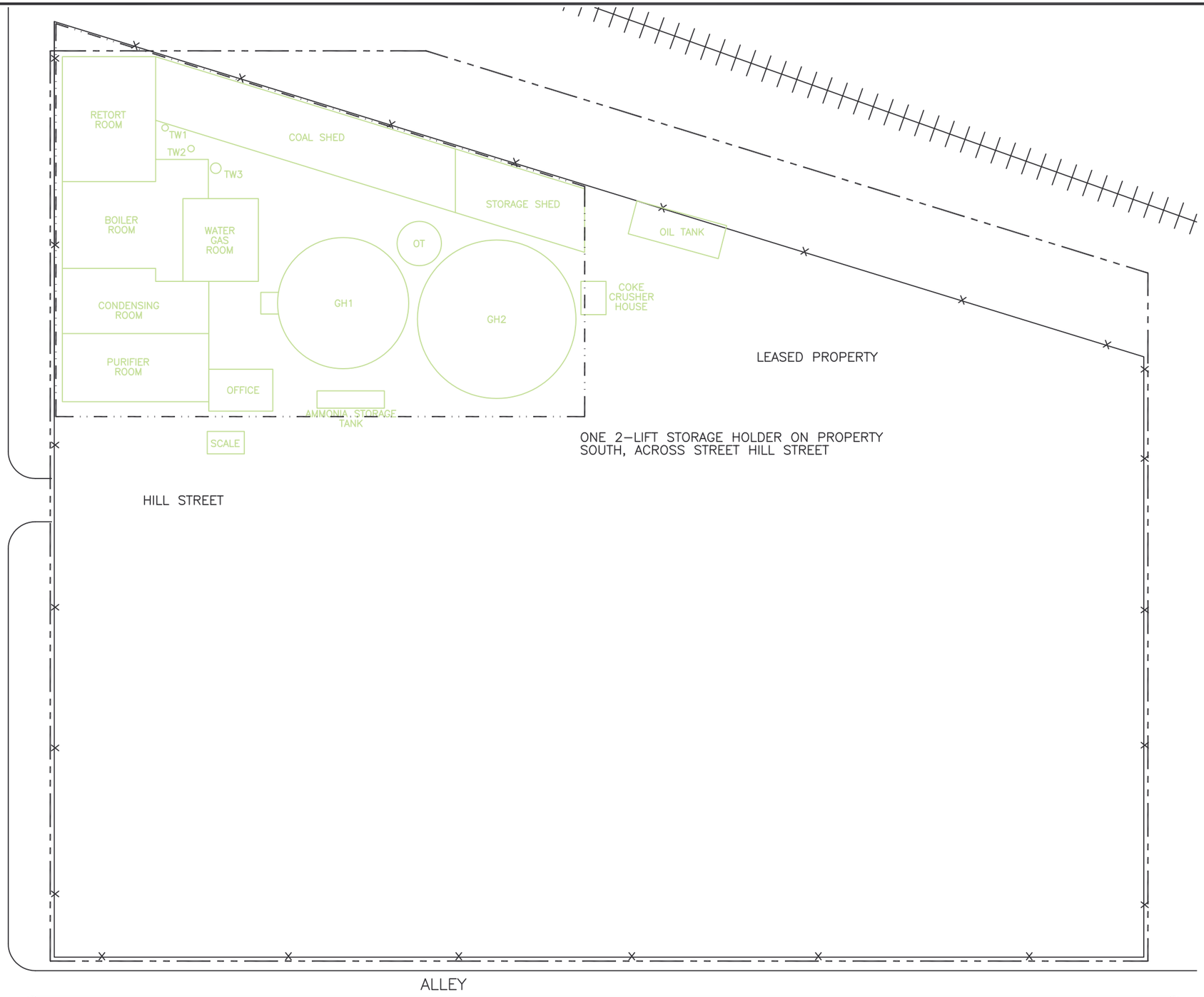
TITLE:
1869 PANORAMIC

DWN:	DES.:
TMM	JG
CHKD:	APPD:
DATE:	REV.:
7/25/02	0

PROJECT NO.: 62400345
AMEREN IP
CHAMPAIGN, ILLINOIS

FIGURE 2–1

COL 624\00345E-003



LEGEND

— — —	APPROXIMATE CURRENT PROPERTY BOUNDARY
TW	TAR WELL
GH	GAS HOLDER
OT	OIL TANK
- · — · -	1910 PROPERTY LINE
—x—x—	EXISTING FENCE

NOTES:

1. Approximate property boundary and manufactured gas plant structures based on Dec. 30, 1910 drawing "Floor Plan of Gas Plant Property of U.&C.R.G.&E. Co."

0 40
FEET

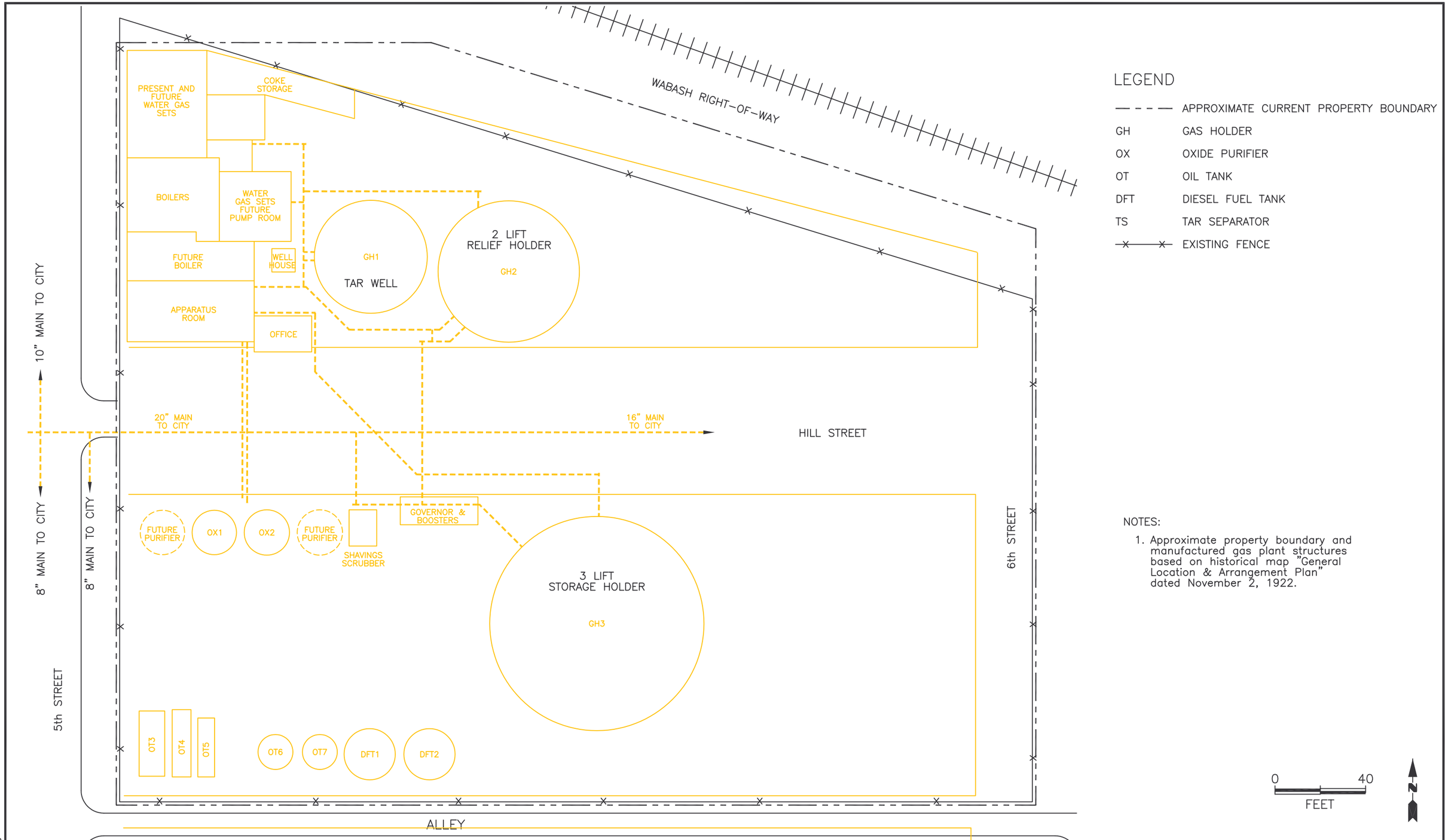
N

COL. 624\00345B-024

PSC

TITLE:
1910 SITE PLAN

DWN: TMM	DES: SPB	PROJECT NO: 62400345	
CHKD:	APPD:	AMEREN IP CHAMPAIGN, ILLINOIS	
DATE: 7/25/02	REV: 0	FIGURE 2-2	



LEGEND

— - - —	APPROXIMATE CURRENT PROPERTY BOUNDARY
GH	GAS HOLDER
OX	OXIDE PURIFIER
OT	OIL TANK
DFT	DIESEL FUEL TANK
TS	TAR SEPARATOR
—×—×—	EXISTING FENCE

NOTES:

1. Approximate property boundary and manufactured gas plant structures based on historical map "General Location & Arrangement Plan" dated November 2, 1922.

0 40
FEET

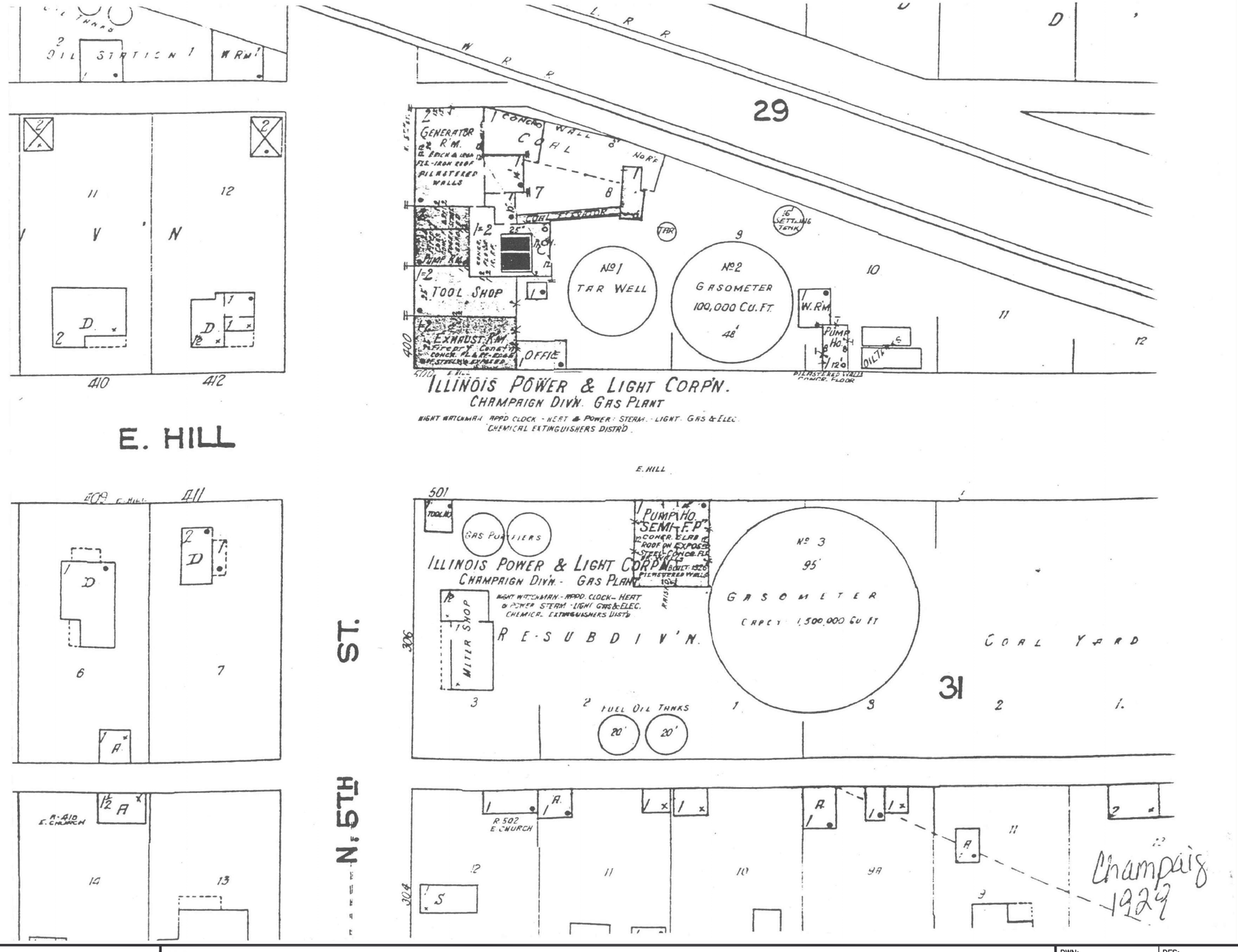
N

COL. 624\00345B-023

PSC

TITLE:
1922 SITE PLAN

DWN: TMM	DES: SPB	PROJECT NO: 62400345	
CHKD:	APPD:	AMEREN IP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV: 0	FIGURE 2-3	

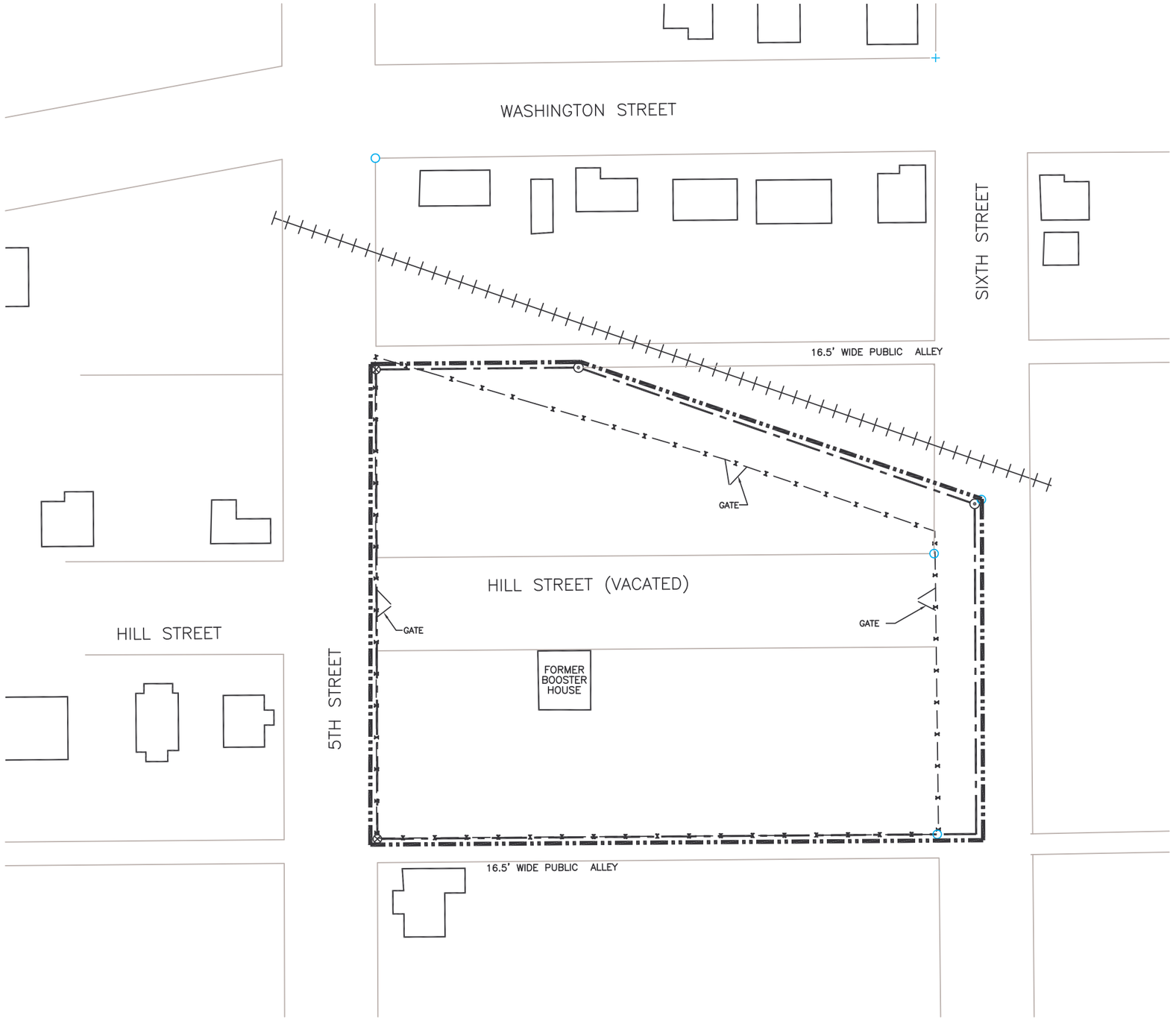


COL. 624\00345E-002

PSC

TITLE:
1929 SANBORN FIRE INSURANCE MAP

DWN: TMM	DES: SPB	PROJECT NO: 62400345	
CHKD:	APPD:	IP CHAMPAIGN CHAMPAIGN, ILLINOIS	
DATE: 2/24/00	REV: 0	FIGURE 2–4	



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

0 80
FEET
N

PSC

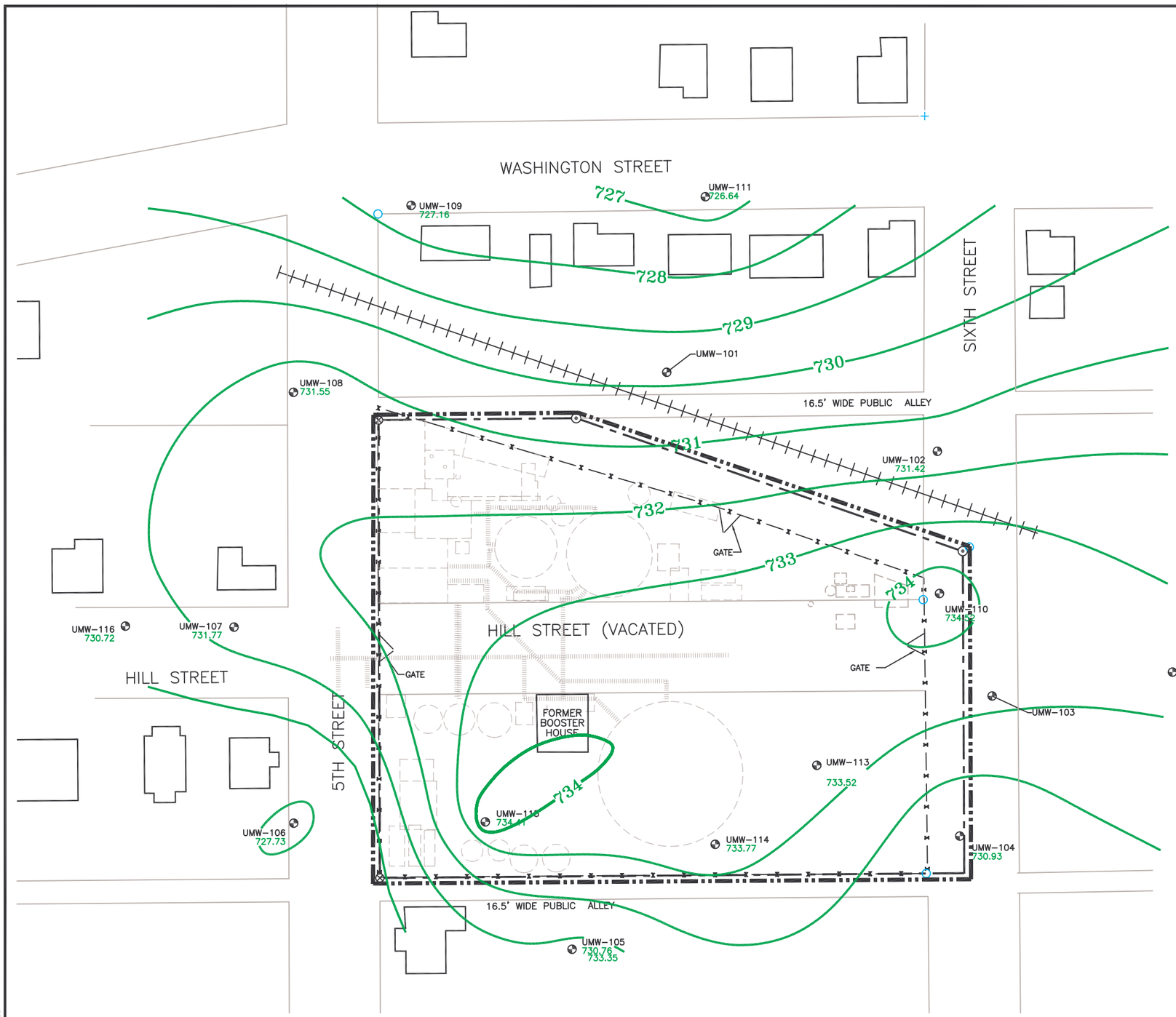
TITLE:
CURRENT SITE LAYOUT

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 12/14/07	REV:

PROJECT NO: 62402647
AMERENIP
CHAMPAIGN, ILLINOIS

FIGURE 2-5

COL. J:\624\02647B-015



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- UMW-113 — SHALLOW GROUNDWATER MONITORING WELLS (APPROXIMATELY 20') COMPLETED IN UPPER GLACIAL TILL
- 734.6 — WATER TABLE ELEVATION (FEET) JULY 2004

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

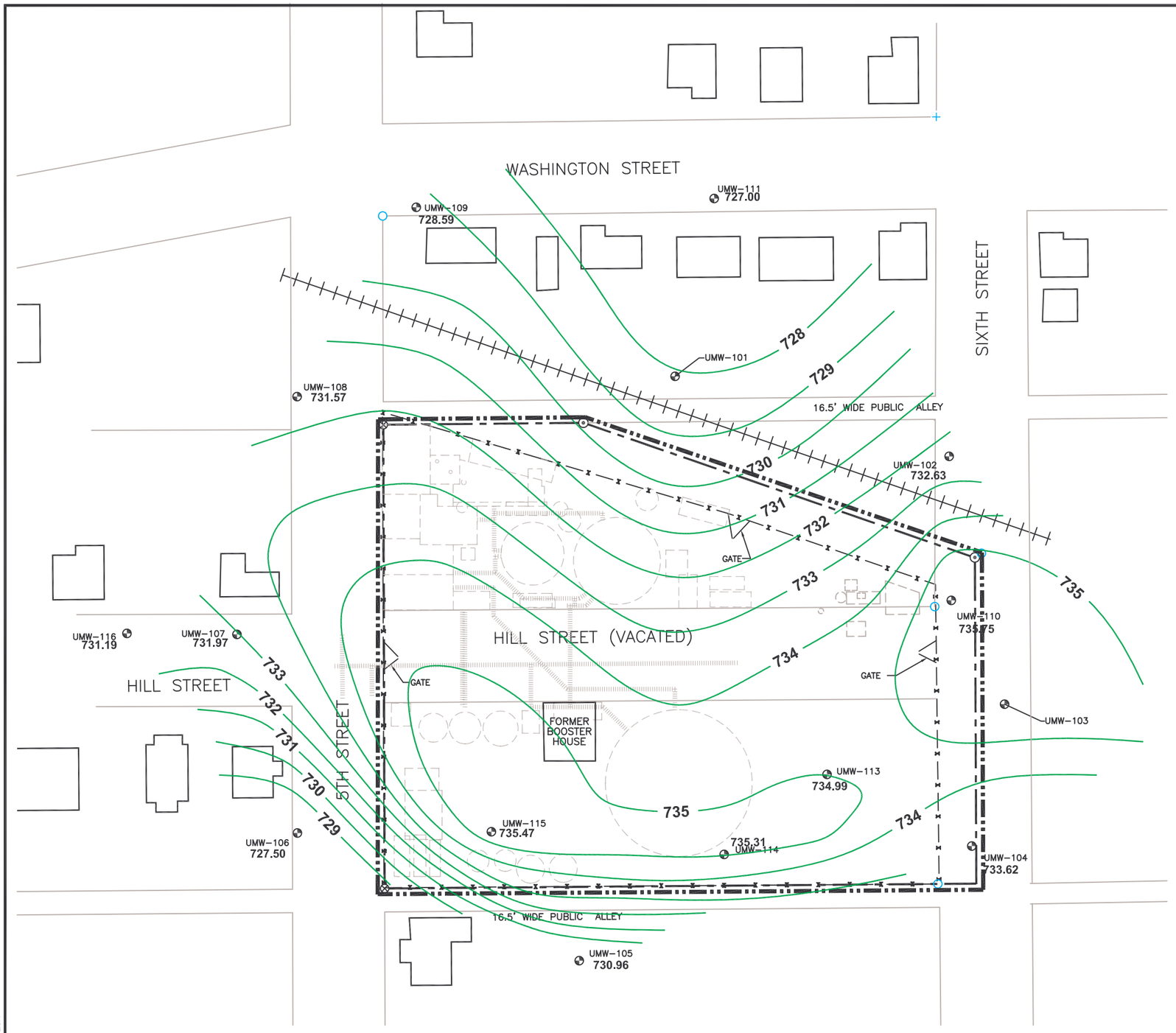
0 80
FEET

COL. J:\624\02647B-023

PSC

TITLE:
GROUNDWATER ELEVATION CONTOUR
SHALLOW GROUNDWATER SYSTEM
JULY 2004

DWN: TMM	DES: MRC	PROJECT NO: 62402647	
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 2-6	



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- UMW-113 — SHALLOW GROUNDWATER MONITORING WELLS (APPROXIMATELY 20') COMPLETED IN UPPER GLACIAL TILL
- 734.6 — WATER TABLE ELEVATION (FEET) DECEMBER 2006

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

0 80
FEET

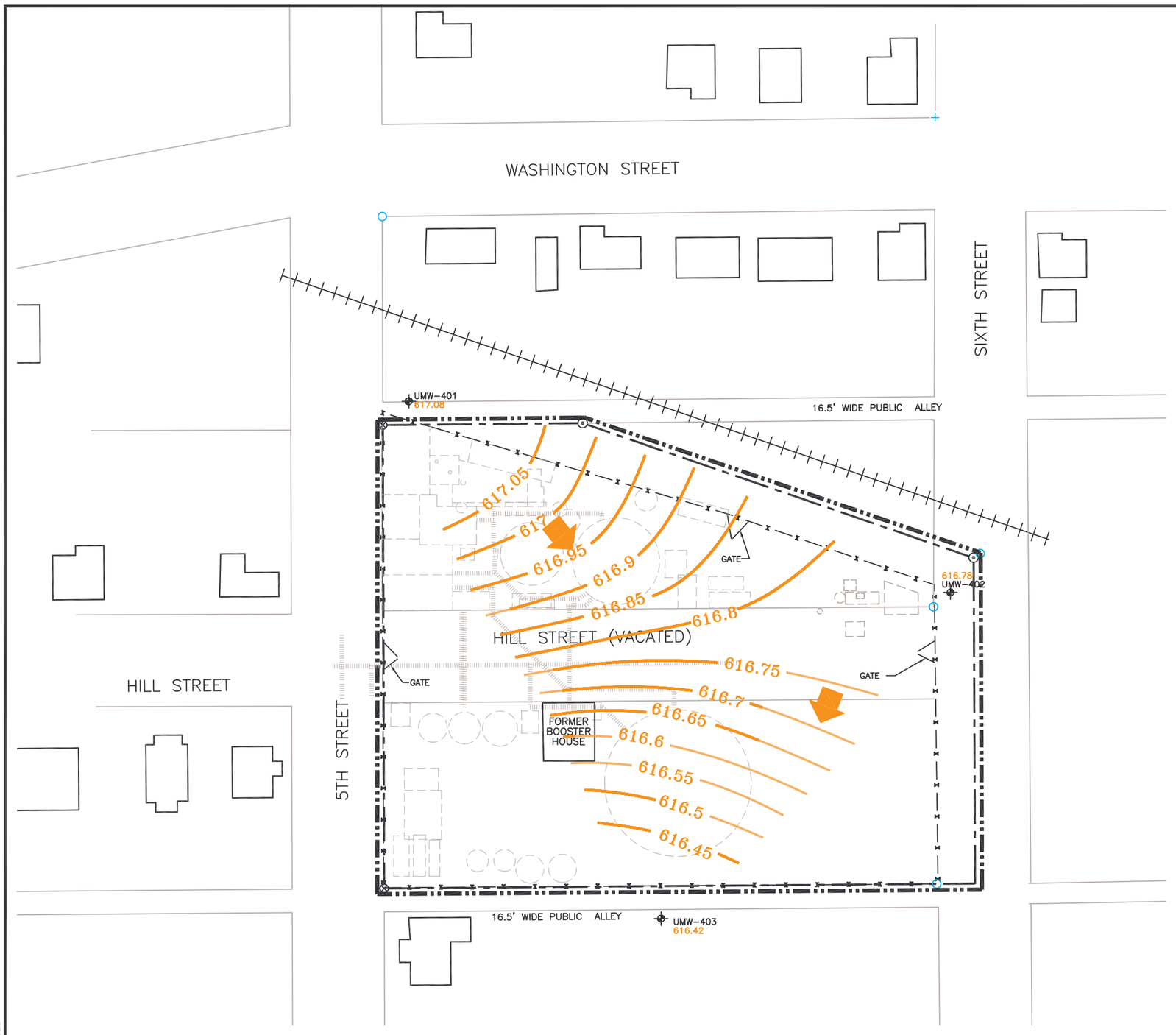
N

PSC

TITLE:
GROUNDWATER ELEVATION CONTOUR
SHALLOW GROUNDWATER SYSTEM
DECEMBER 2006

DWN: TMM	DES: MRC	PROJECT NO: 62402647
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS
DATE: 12/14/07	REV:	FIGURE 2-7

COL J:\624\02647B-023A



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- UMW-401 — DEEP GROUNDWATER MONITORING WELLS (APPROXIMATELY 170') COMPLETED IN GLASFORD FORMATION
- 734.6 — WATER TABLE ELEVATION JANUARY 1993
- INTERPRETED FLOW DIRECTION

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

0 80
FEET

N

PSC

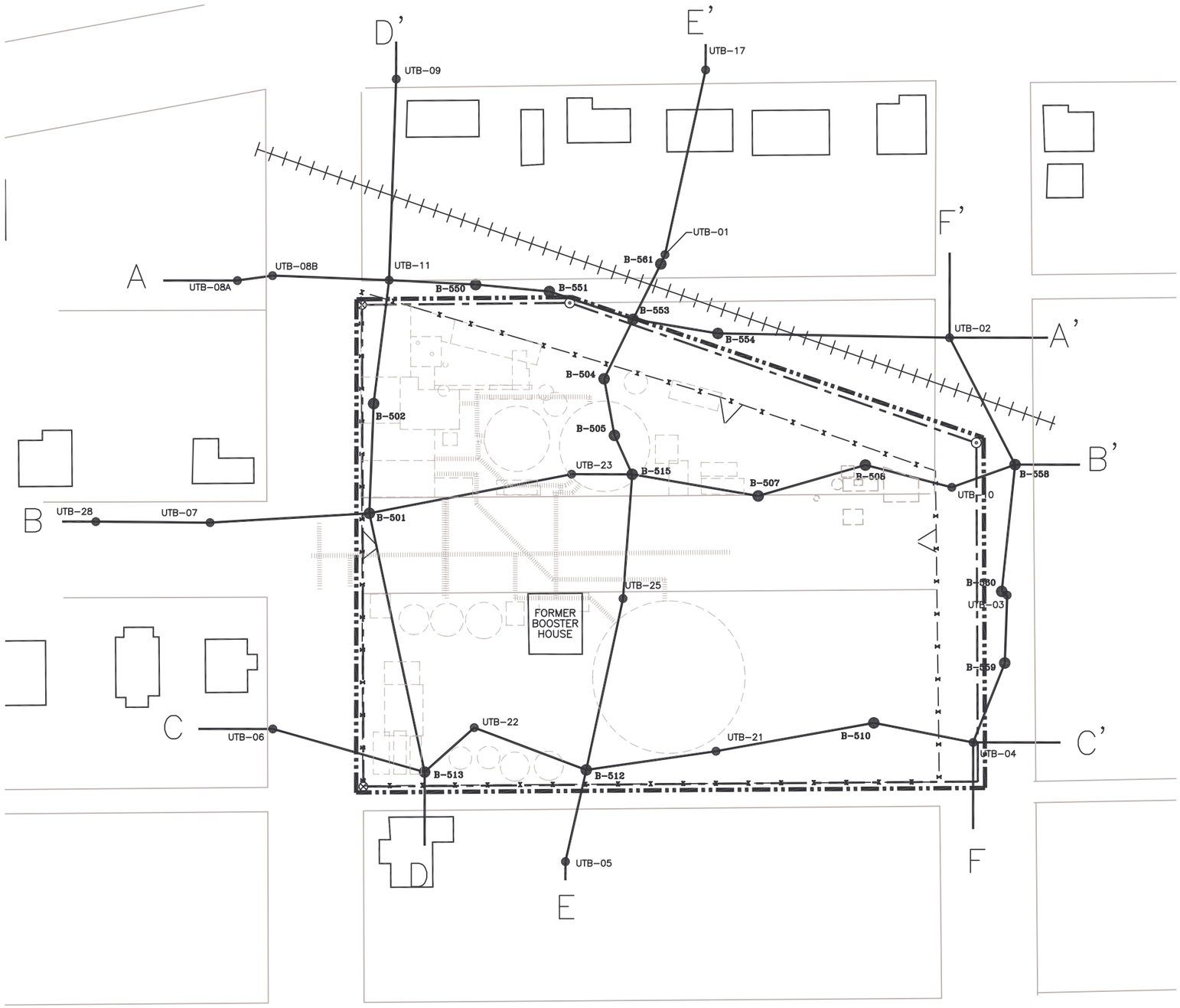
TITLE:
GROUNDWATER ELEVATION CONTOUR
DEEP GROUNDWATER SYSTEM
JANUARY 1993

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 12/14/07	REV:

PROJECT NO: 62402647
AMERENIP
CHAMPAIGN, ILLINOIS

FIGURE 2-8

COL J:\624\02647B-025



COL. J:\624\02647B-004

PSC

TITLE:
SITE CROSS SECTION TRANSECT LOCATIONS

DWN: TMM	DES: JG	PROJECT NO: 62402647	
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 2-9	

WEST

A

EAST

A'

ELEVATION

740

730

720

710

700

UTB-08A

UTB-08B
UMW-108

UTB-11
UMW-401

B-550

B-551

B-553

B-554

RAIL ROAD

UTB-02
UMW-102

FILL

SILTY CLAY

SAND

TD=14'

TD=24'

TD=175'

TD=28'

TD=28'

TD=32'

TD=32'

TD=26.5'

LEGEND

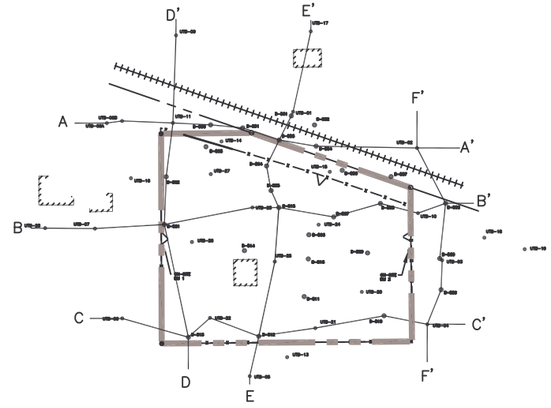
ANALYTICAL SAMPLE INTERVAL

MONITORED INTERVAL

GROUNDWATER LEVEL (7/26/04)

10 FOOT DEPTH

3.3 PID READING, ppm



HORIZONTAL SCALE IN FEET

0 60

0 6

VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section AA - 004

PSC

TITLE:

WEST-EAST CROSS SECTION A-A'

DWN: TMM	DES: PTS	PROJECT NO: 62402647	
CHKD: JG	APPD:	AMEREN IP CHAMPAIGN, ILLINOIS	
DATE: 6/1/06	REV: 0	FIGURE 2-10	

WEST

B

EAST

B'

ELEVATION

740

730

720

710

700

UTB-28
UMW-116

UTB-07
UMW-107

5th STREET

PROPERTY LINE (FENCE)
B-501

UTB-23

HOLDER GH-2
B-515

B-507

B-508

PROPERTY LINE (FENCE)
UTB-10

B-558

FILL

SILTY CLAY

TD=20'

TD=20'

TD=24'

TD=28'

TD=32'

TD=28'

TD=28'

TD=22'

TD=28'

LEGEND

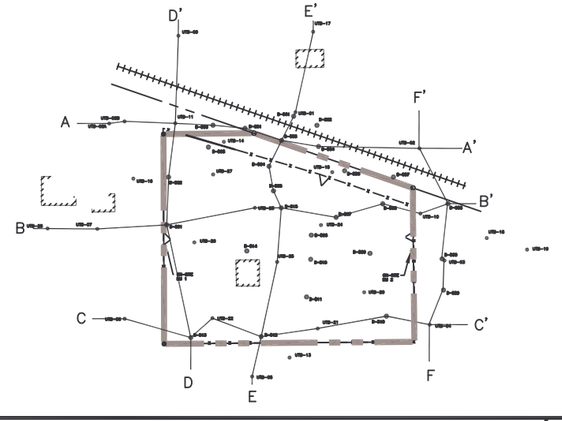
ANALYTICAL SAMPLE INTERVAL

MONITORED INTERVAL

GROUNDWATER LEVEL (7/26/04)

10 FOOT DEPTH

3.3 PID READING, ppm



HORIZONTAL SCALE IN FEET
0 60
0 6
VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section CC - 004

PSC

TITLE:
WEST-EAST CROSS SECTION B-B'

DWN: TMM	DES: PTS	PROJECT NO: 62402647 AMERENIP CHAMPAIGN, ILLINOIS	
CHKD: JG	APPD:		
DATE: 6/1/06	REV: 0	FIGURE 2-11	

WEST
C

EAST
C'

ELEVATION

740

730

720

710

700

PROPERTY LINE (FENCE)

ABOVE GROUND OIL TANKS

OIL TANKS

PROPERTY LINE (FENCE)

UTB-06
UMW-106

B-513

UTB-22
UMW-115

B-512

UTB-21
UMW-114

B-510

UTB-04
UMW-104

FILL

SILTY CLAY

TD=24'

TD=24'

TD=23'

TD=24'

TD=23'

TD=28'

TD=23.5'

LEGEND

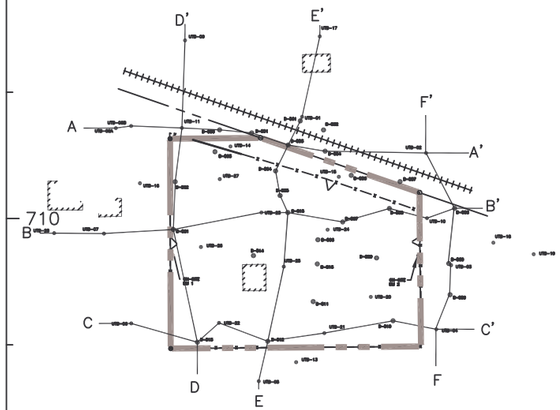
ANALYTICAL SAMPLE INTERVAL

MONITORED INTERVAL

GROUNDWATER LEVEL (7/26/04)

10 FOOT DEPTH

3.3 PID READING, ppm

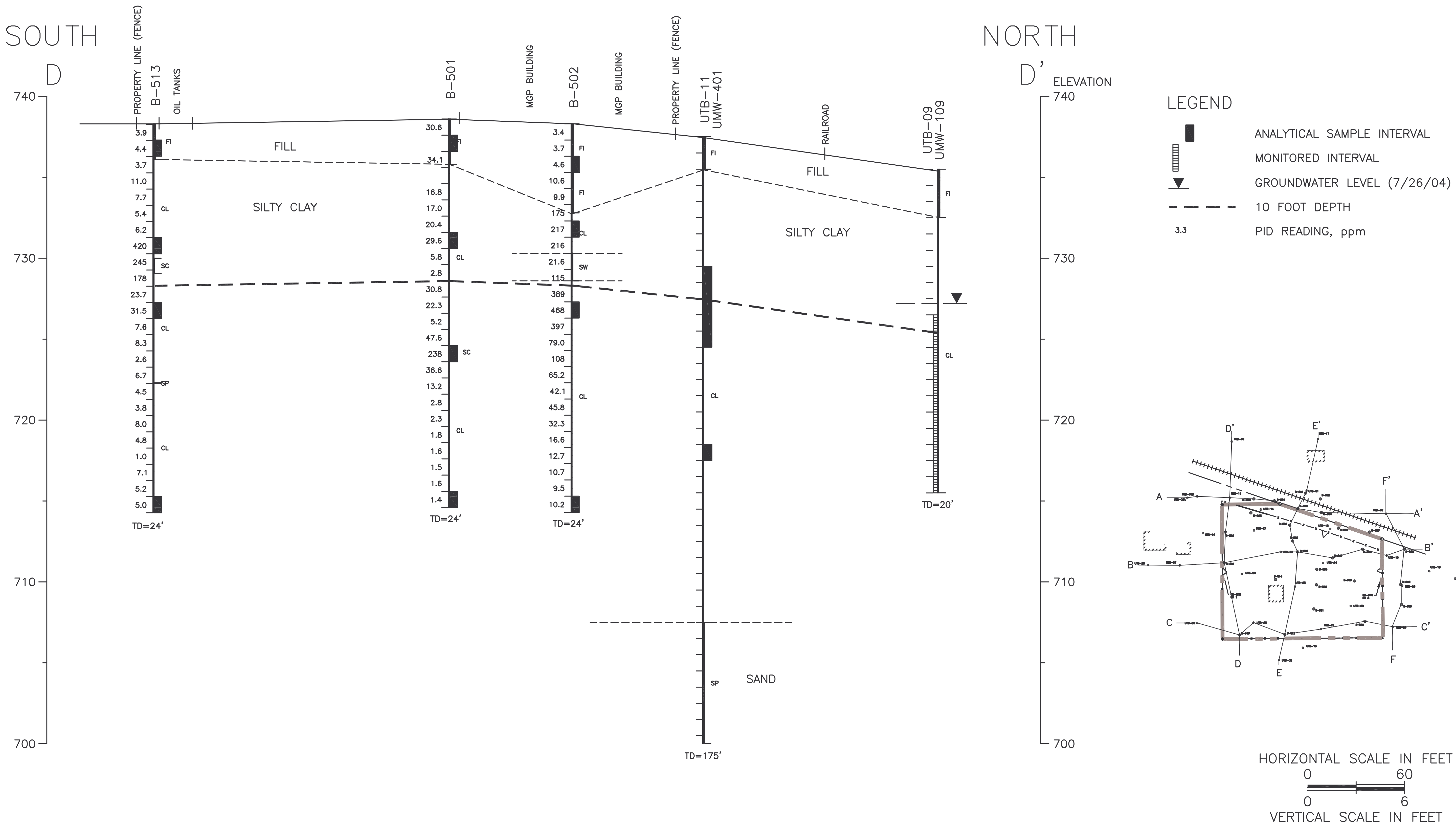


HORIZONTAL SCALE IN FEET
0 60
0 6
VERTICAL SCALE IN FEET

TITLE:
WEST–EAST CROSS SECTION C–C'

DWN: TMM	DES: PTS	PROJECT NO: 62402647	
CHKD: JG	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 6/1/06	REV: 0	FIGURE 2–12	

COL2 IP–CHAMPAIGN\GEO\SECTIONS\Section EE – 004



TITLE: SOUTH–NORTH CROSS SECTION D–D'	DWN: TMM	DES: PTS	PROJECT NO: 62402647 AMERENIP CHAMPAIGN, ILLINOIS
	CHKD: JG	APPD:	
	DATE: 6/1/06	REV: 0	FIGURE 2–13

IP–CHAMPAIGN\GEO\SECTIONS\Section FF – 004 COL2

SOUTH

NORTH

E

E'

ELEVATION

740

730

720

710

700

UTB-05
UMW-105

PROPERTY LINE (FENCE)

B-512

HOLDER GH-3

UTB-25

B-515

B-505

B-504

FENCE LINE

PROPERTY LINE (FENCE)

B-553

RAIL ROAD

B-561

UTB-01

HOUSE

UTB-17
UMW-111

FILL

SILTY CLAY

FILL

SILTY CLAY

TD=20'

TD=24'

TD=28'

TD=28'

TD=28'

TD=32'

TD=32'

TD=28'

TD=22'

LEGEND

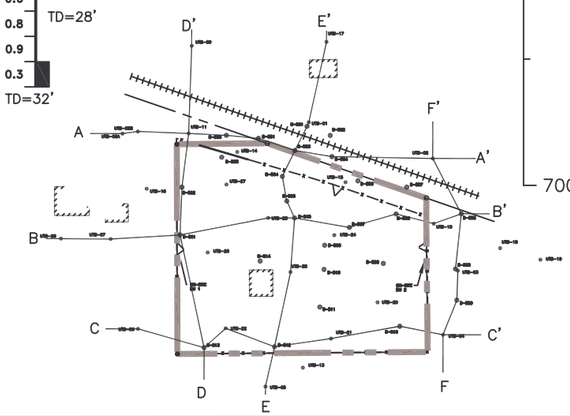
ANALYTICAL SAMPLE INTERVAL

MONITORED INTERVAL

GROUNDWATER LEVEL (7/26/04)

10 FOOT DEPTH

3.3 PID READING, ppm



HORIZONTAL SCALE IN FEET
0 60
0 6
VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section HH - 004

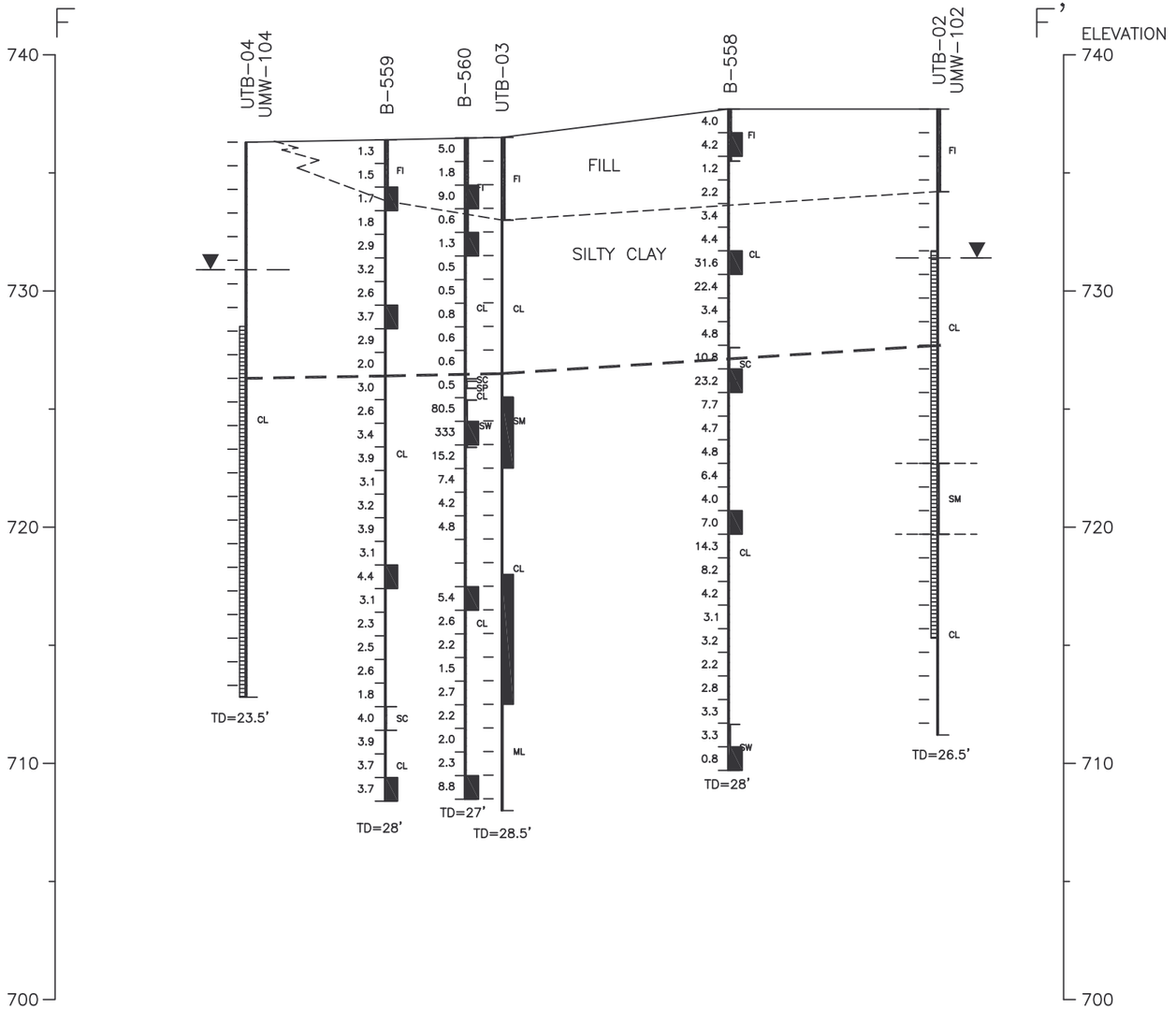
PSC

TITLE:
SOUTH-NORTH CROSS SECTION E-E'

DWN: TMM	DES: PTS	PROJECT NO: 62402647	
CHKD: JG	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 6/1/06	REV: 0	FIGURE 2-14	

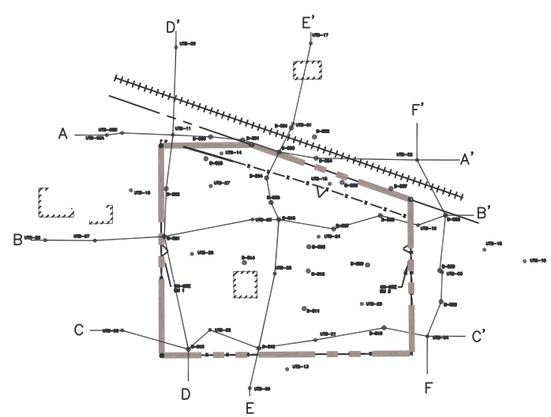
SOUTH

NORTH



LEGEND

- ANALYTICAL SAMPLE INTERVAL
- MONITORED INTERVAL
- GROUNDWATER LEVEL (7/26/04)
- 10 FOOT DEPTH
- 3.3 PID READING, ppm

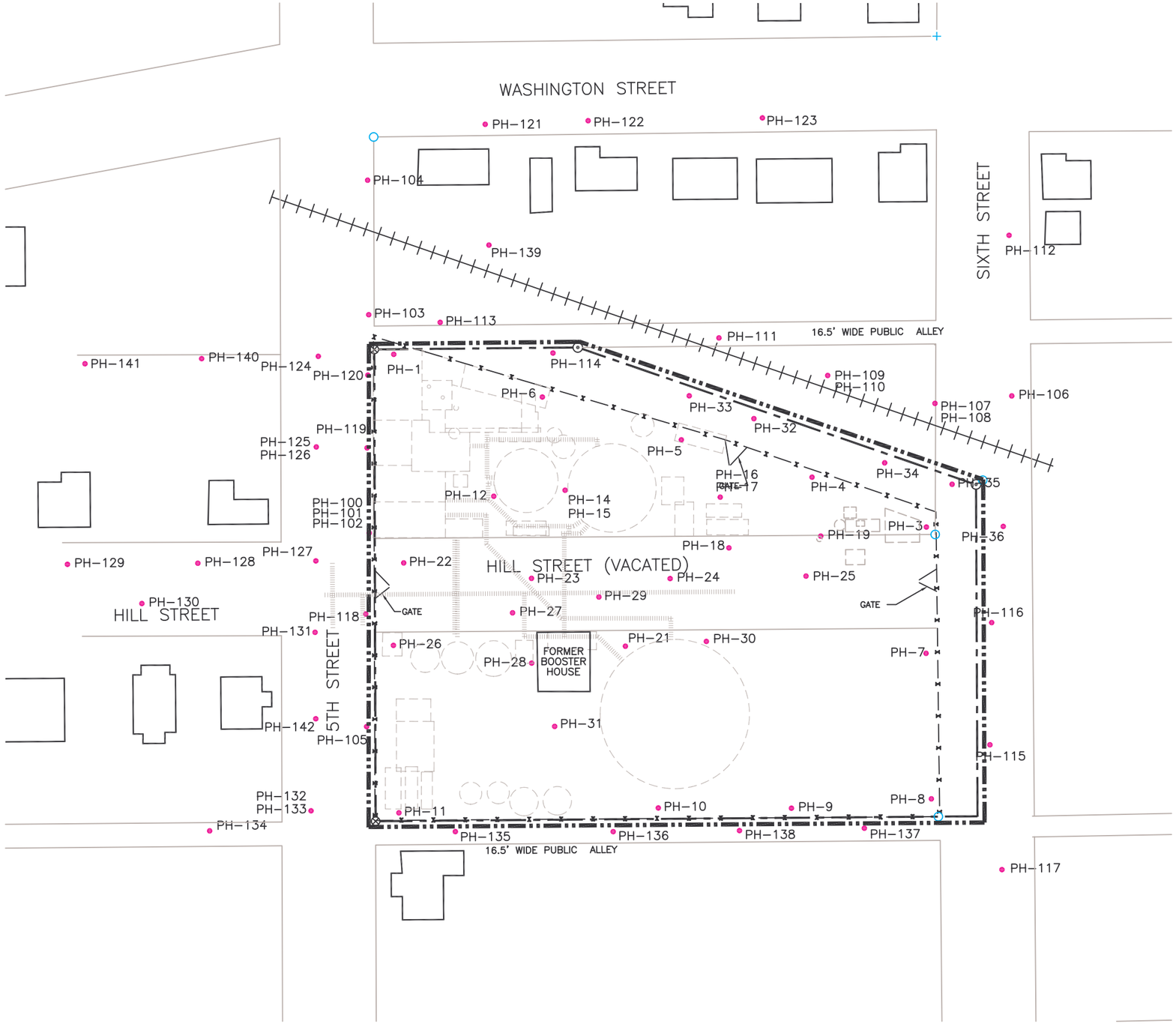


HORIZONTAL SCALE IN FEET
0 60
0 6
VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section LL - 004

TITLE:
SOUTH-NORTH CROSS SECTION F-F'

DWN: TMM	DES: PTS	PROJECT NO: 62402647 AMERENIP CHAMPAIGN, ILLINOIS
CHKD: JG	APPD:	
DATE: 6/1/06	REV: 0	FIGURE 2-15



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- PH-1 APPROXIMATE PROBEHOLE LOCATION AND NUMBER

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

0 80
FEET

N

PSC

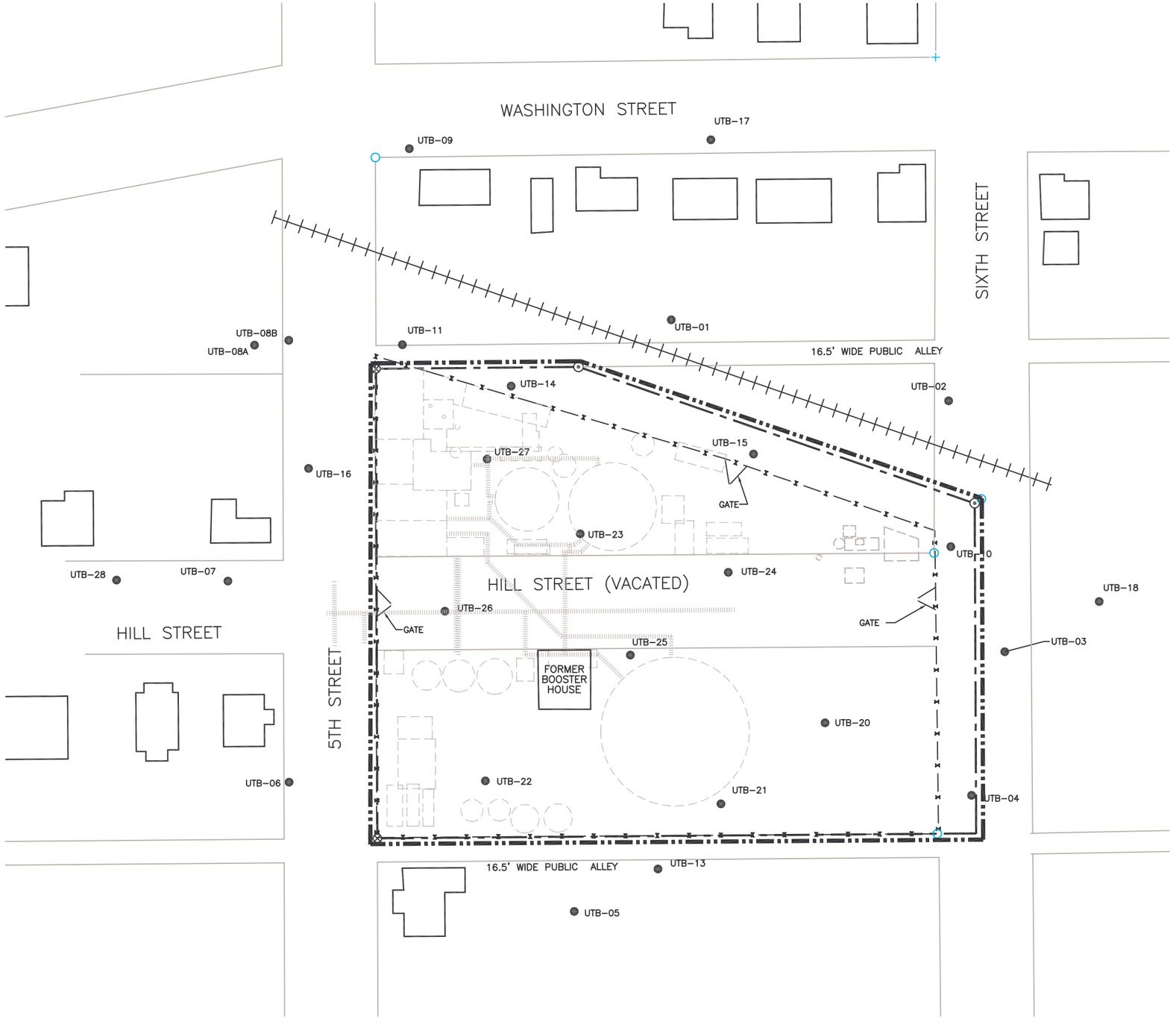
TITLE:
PHASE 1C/1D PROBEHOLE LOCATION MAP

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 12/14/07	REV:

PROJECT NO: 62402647
AMERENIP
CHAMPAIGN, ILLINOIS

FIGURE 2-16

COL J:\624\02647B-016



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- UTB-08 — APPROXIMATE TEST BOREHOLE LOCATION AND NUMBER

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

0 80
FEET

N

COL J:\624\02647B-017

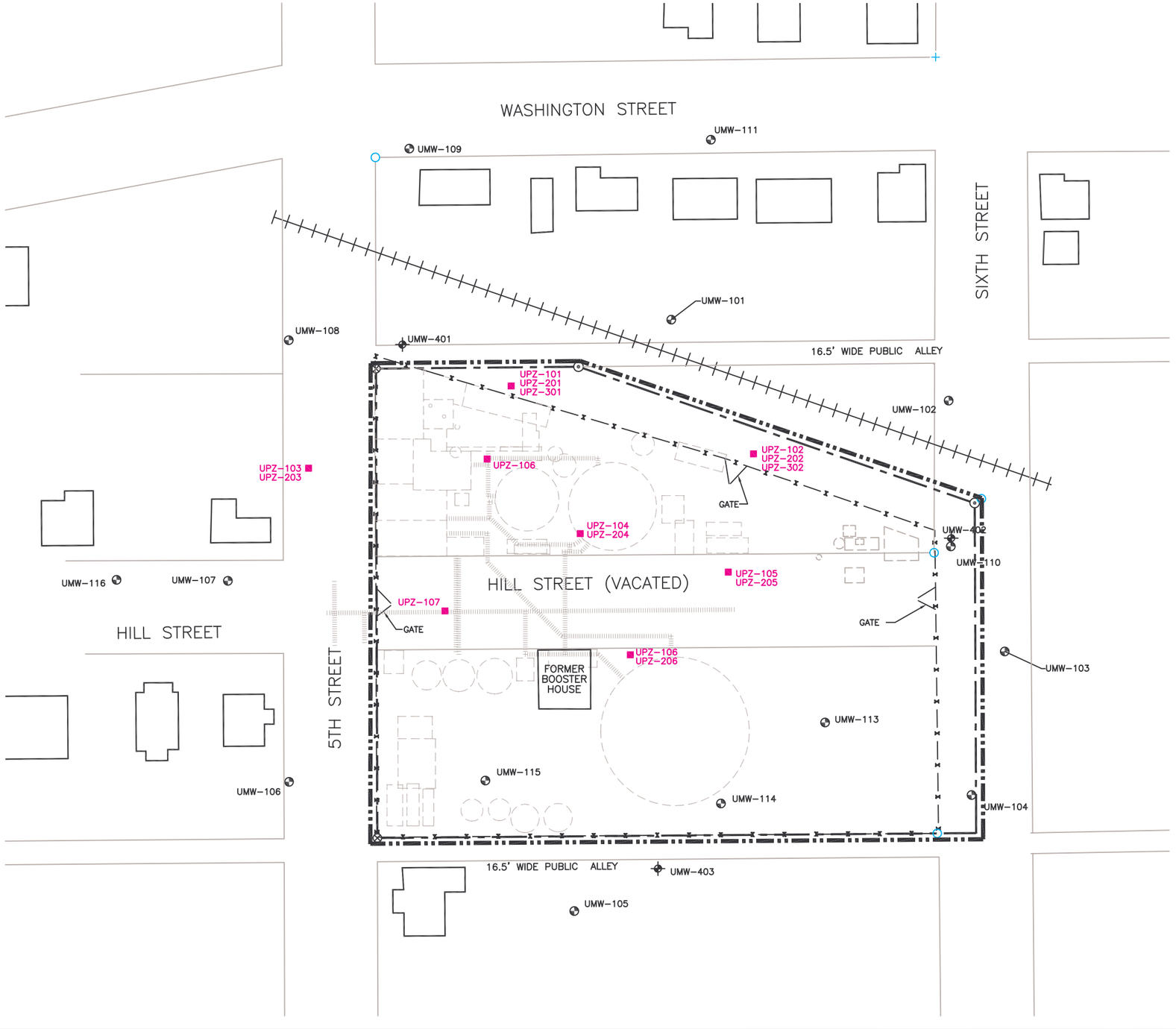
PSC

TITLE:
PHASE II SI BOREHOLE LOCATIONS
NOVEMBER 1990 – JANUARY 1992

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 12/14/07	REV:

PROJECT NO: 62402647
AMERENIP
CHAMPAIGN, ILLINOIS

FIGURE 2-17



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- ■ UPZ-102, UPZ-202, UPZ-302 — NESTED PIEZOMETERS (SHALLOW 5' TO 10', MEDIUM 20' TO 25', AND DEEP 30' TO 35') COMPLETED IN GLACIAL TILL
- ⊕ UMW-113 — SHALLOW GROUNDWATER MONITORING WELLS (APPROXIMATELY 20') COMPLETED IN UPPER GLACIAL TILL
- ⊕ UMW-401 — DEEP GROUNDWATER MONITORING WELLS (APPROXIMATELY 150') COMPLETED IN GLASFORD FORMATION

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

0 80
FEET

COL. J:\624\026478-018

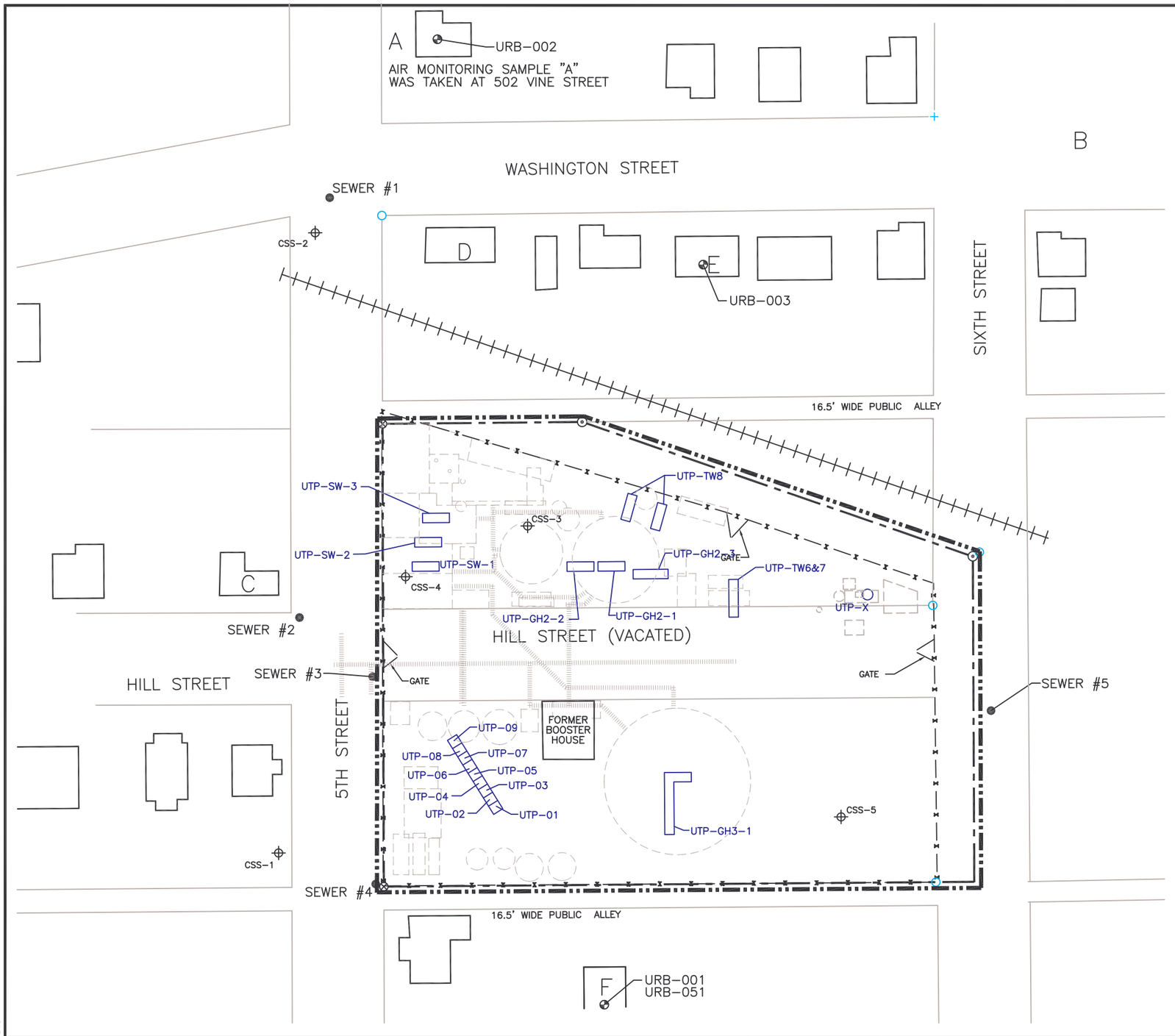
PSC

TITLE:
PHASE II SI MONITORING WELL AND PIEZOMETER LOCATIONS
NOVEMBER 1990 – JANUARY 1992

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 12/14/07	REV:

PROJECT NO: 62402647
AMERENIP
CHAMPAIGN, ILLINOIS

FIGURE 2-18



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- SEWER #1 — SEWER SAMPLE LOCATION
- UTP–GH3–1 — TEST PIT LOCATION
- A — AIR MONITORING SAMPLE LOCATION
- CSS–1 — SURFACE SOIL SAMPLE LOCATION
- URB–001 — BASEMENT SUMP WATER SAMPLE LOCATION

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

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FEET

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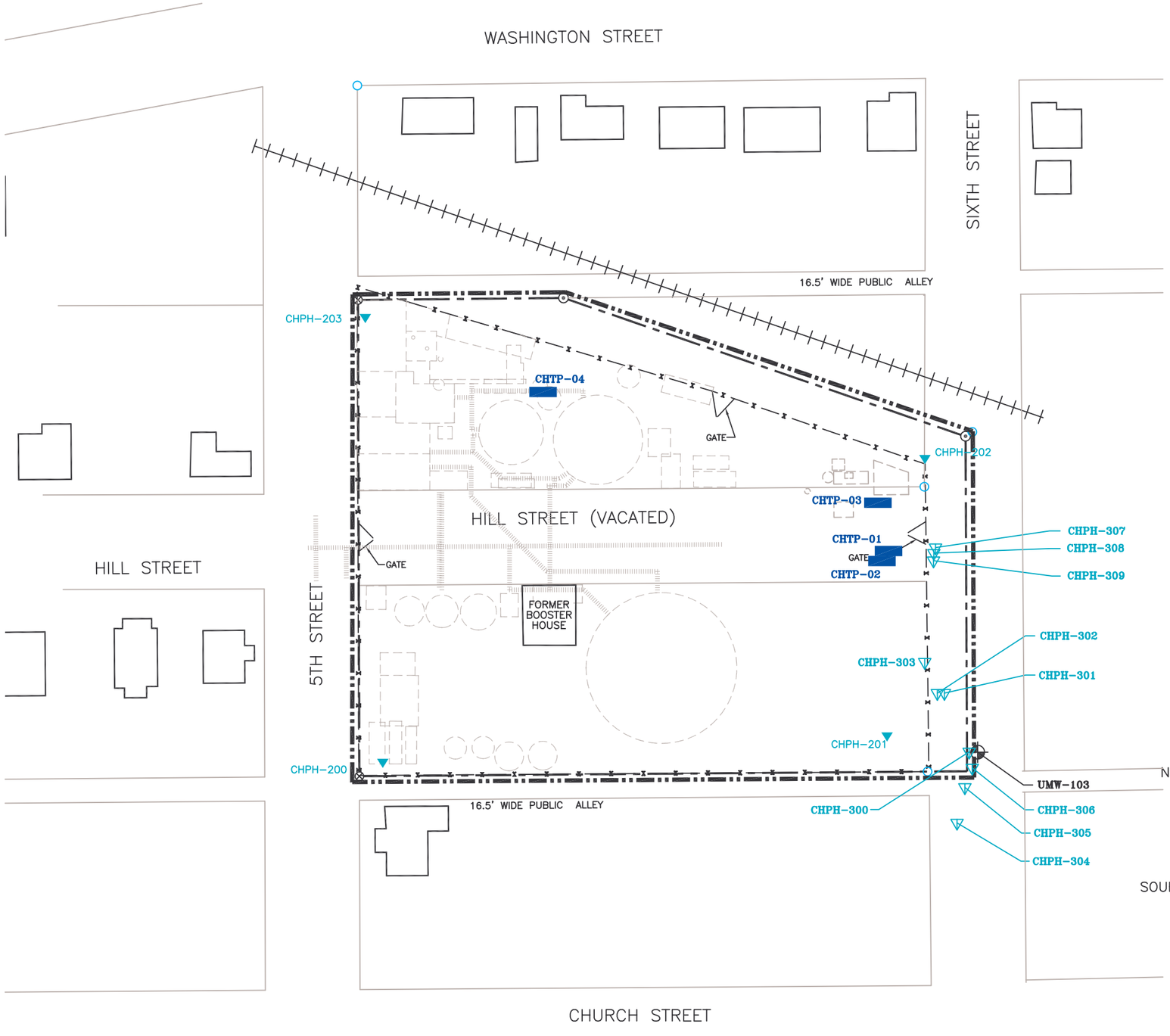
COL J:\624\026478-019

PSC

TITLE:
PHASE II SI TEST PIT, SURFACE SOIL AND SEWER SAMPLE LOCATIONS

DWN: TMM	DES: MRC	PROJECT NO: 62402647
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS
DATE: 12/14/07	REV:	FIGURE 2–19



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- CHTP-01 — TEST PIT LOCATION AND NUMBER
- CHPH-201 — PROBEHOLE LOCATION AND NUMBER (DECEMBER 1996)
- CHPH-303 — PROBEHOLE LOCATION AND NUMBER (MARCH 1997)

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

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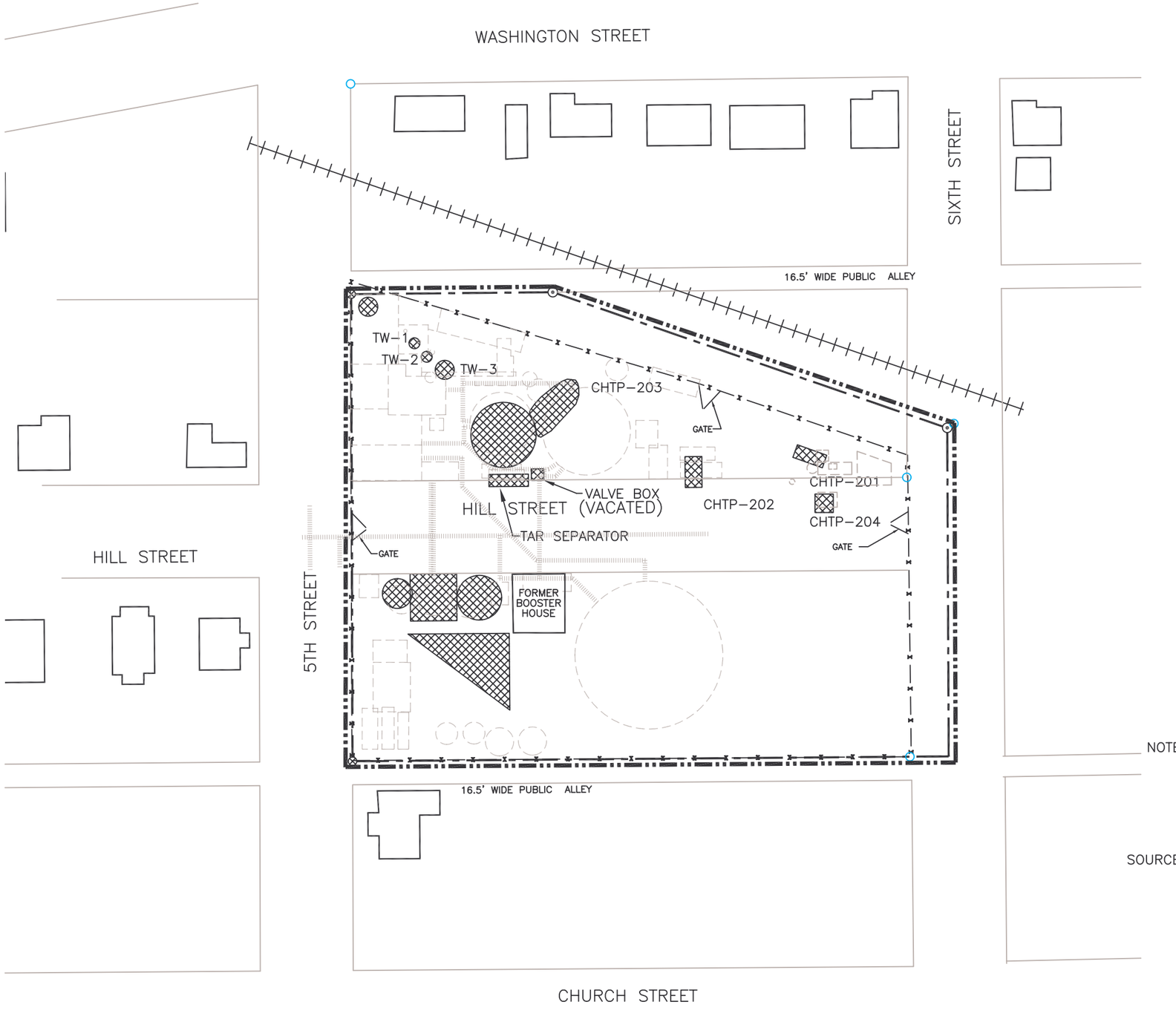
FEET

PSC

TITLE:
SSI APPROXIAMTE TEST PIT AND PROBEHOLE LOCATIONS
MARCH 1997

DWN: TMM	DES: JG	PROJECT NO: 62402647	
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 2-20	

COL. J:\624\02647B-027



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- SOURCE REMOVAL OR TEST PIT LOCATION

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

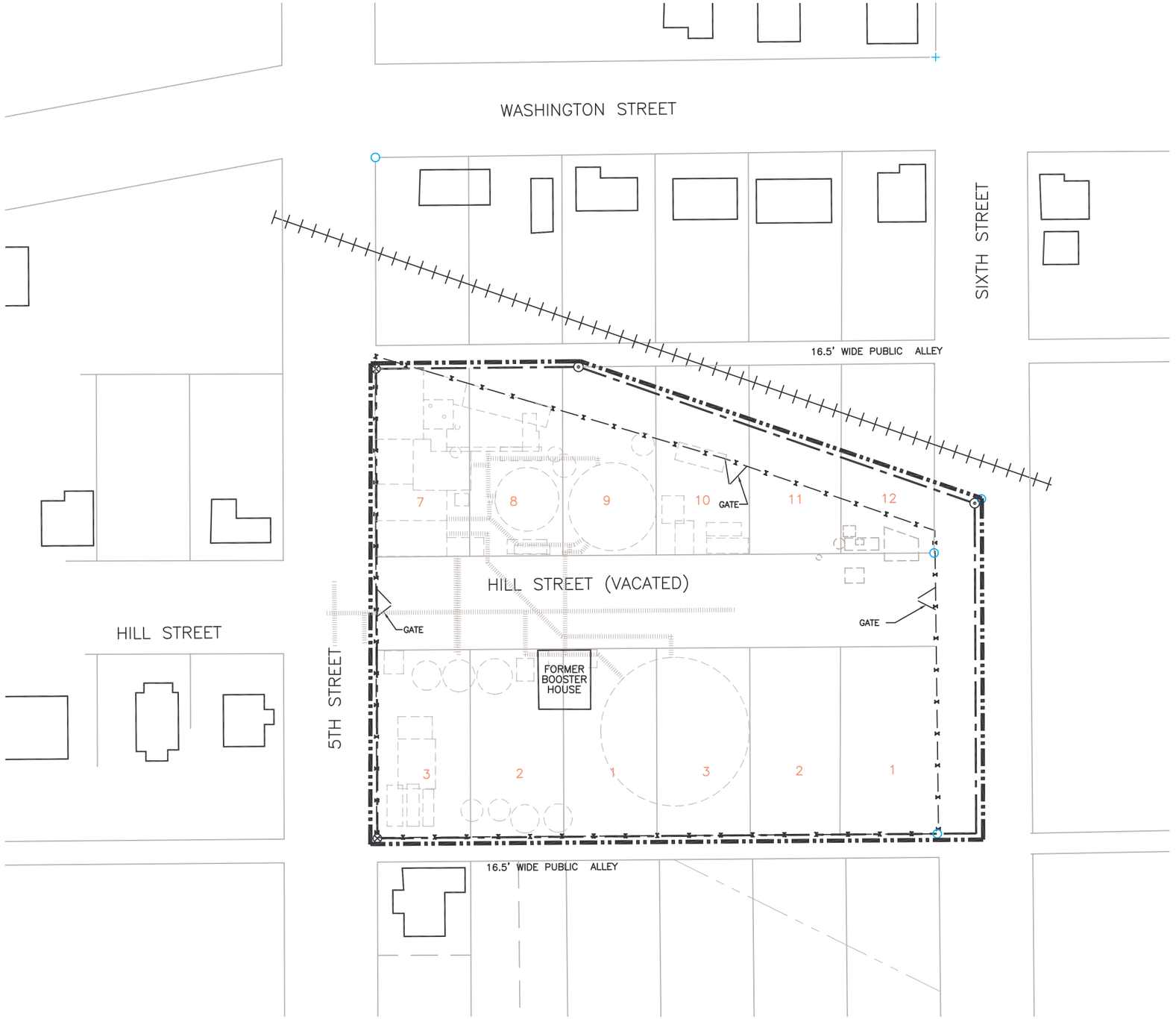
0 80
FEET

COL. J:\624\02647B-026

PSC

TITLE:
APPROXIMATE IRM REMOVAL AREAS

DWN: TMM	DES: JG	PROJECT NO: 62402647	
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 2-21	



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- 12 — LOT LINE AND LOT NUMBER
- FENCE

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

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FEET

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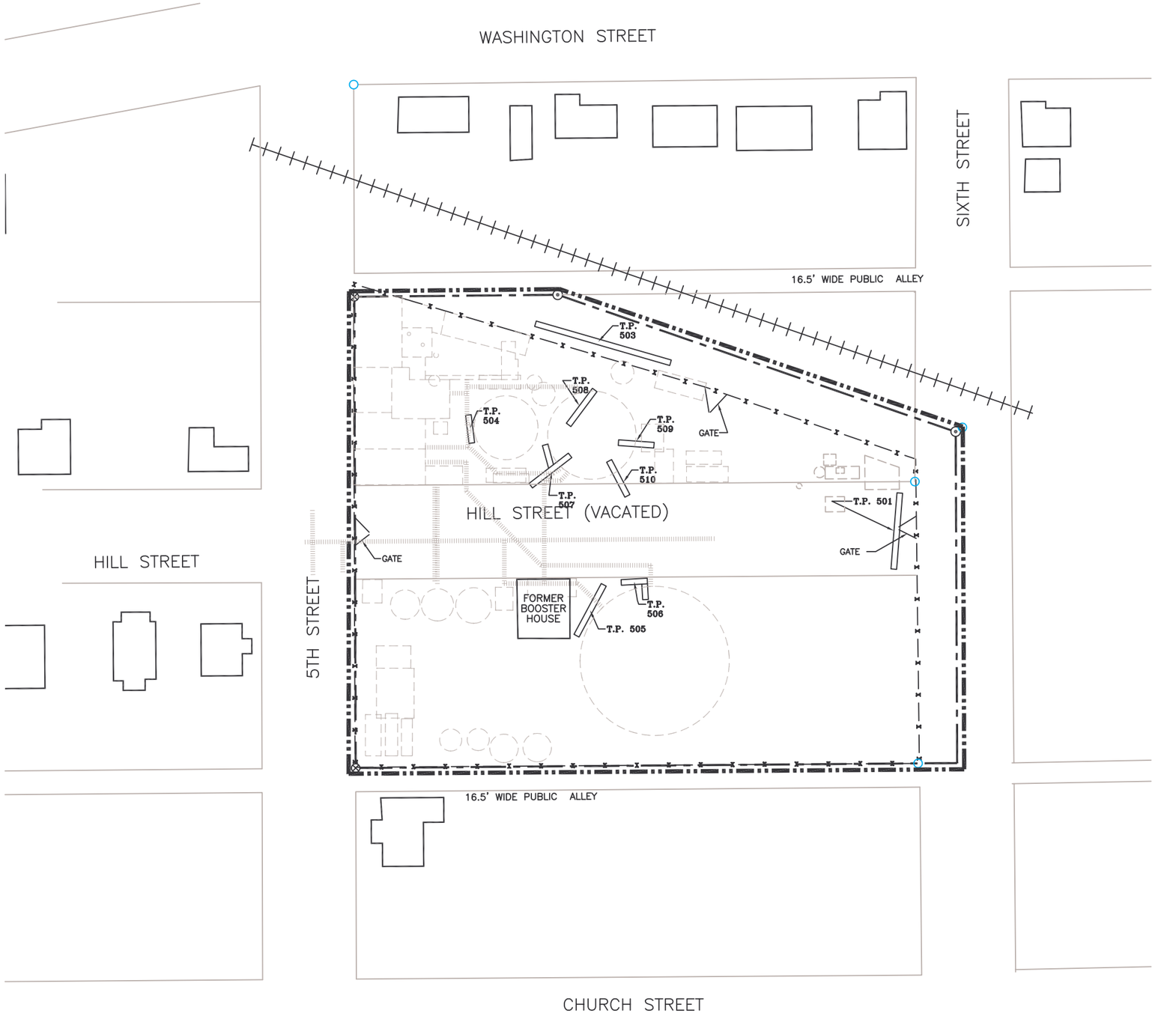
PSC

TITLE:
SRP SITE BOUNDARY AND EXISTING STRUCTURES

DWN: TMM	DES: MRC	PROJECT NO: 62402647	
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 3–1	

COL J:\624\02647B-011



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- T.P.509 CSI TEST PIT LOCATION AND NUMBER (2004)

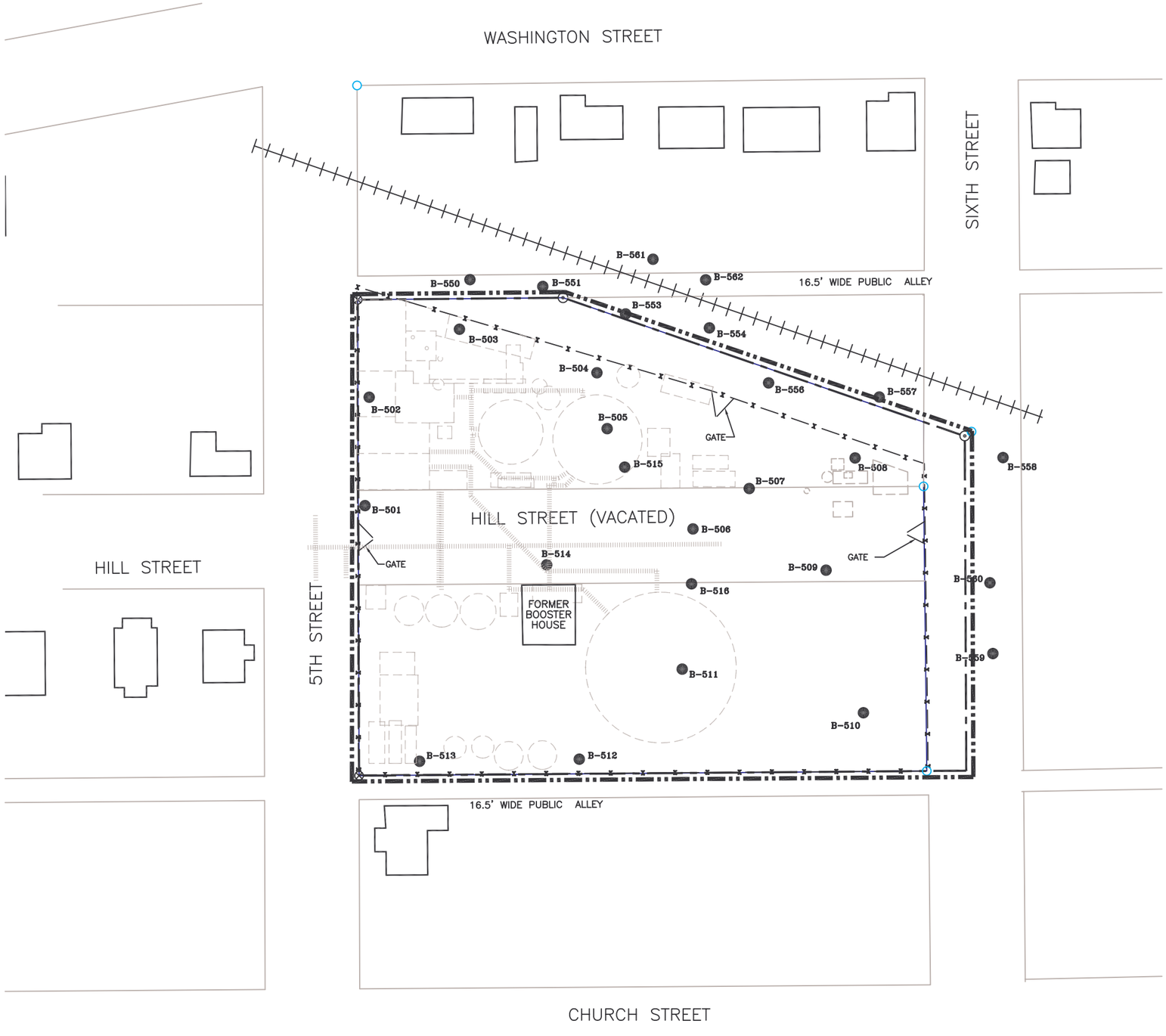
0 80
FEET

PSC

TITLE:
CSI TEST PIT LOCATIONS
2004 INVESTIGATION

DWN: TMM	DES: JG	PROJECT NO: 62402647	
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 4–1	

COL. J:\624\02647B-005



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE
- B-515 CSI PROBEHOLE LOCATION AND NUMBER

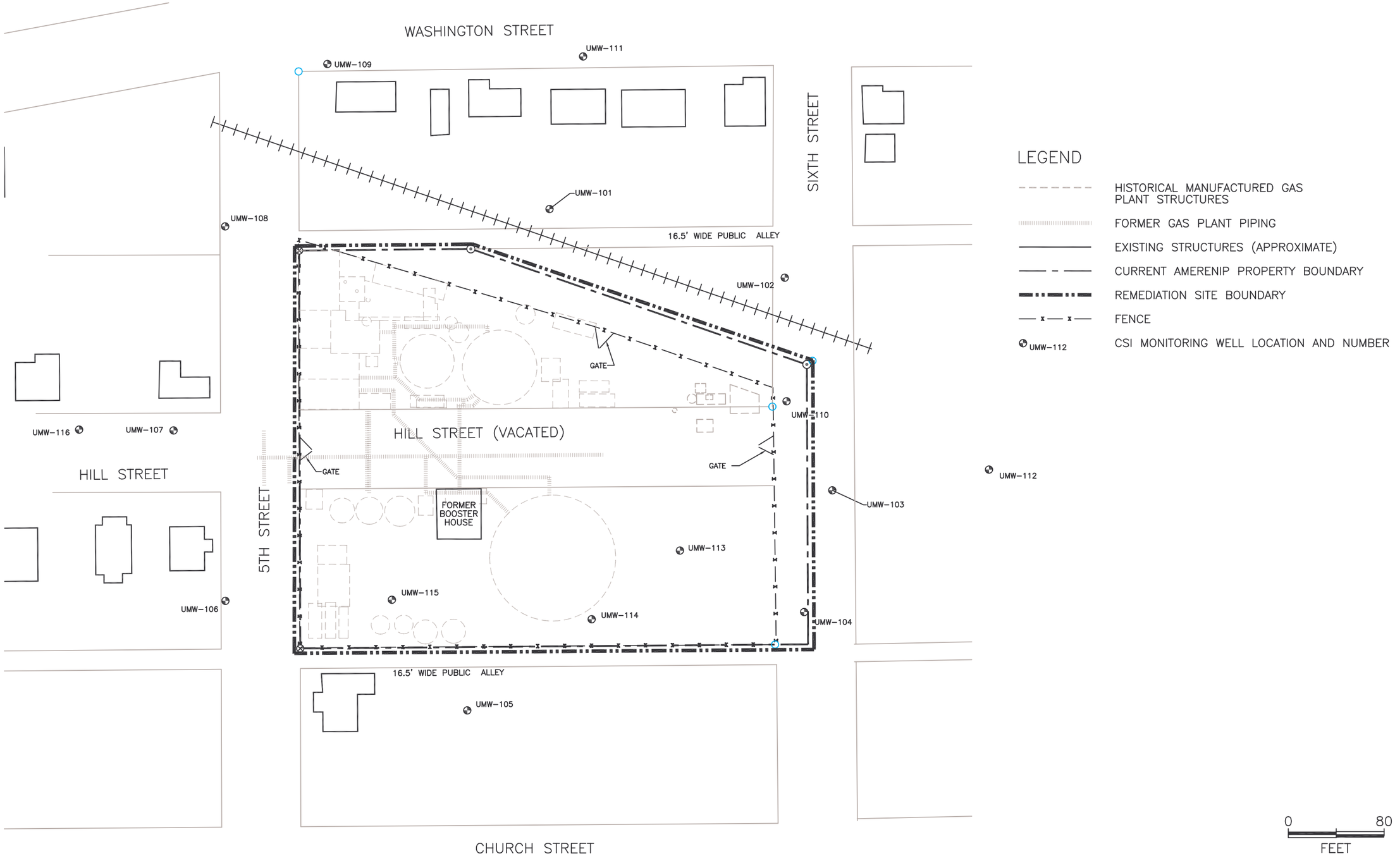
0 80
FEET

PSC

TITLE:
CSI PROBEHOLE LOCATIONS
2004 INVESTIGATION

DWN: TMM	DES: JG	PROJECT NO: 62402647	
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 4-2	

COL. J:\624\02647B-006

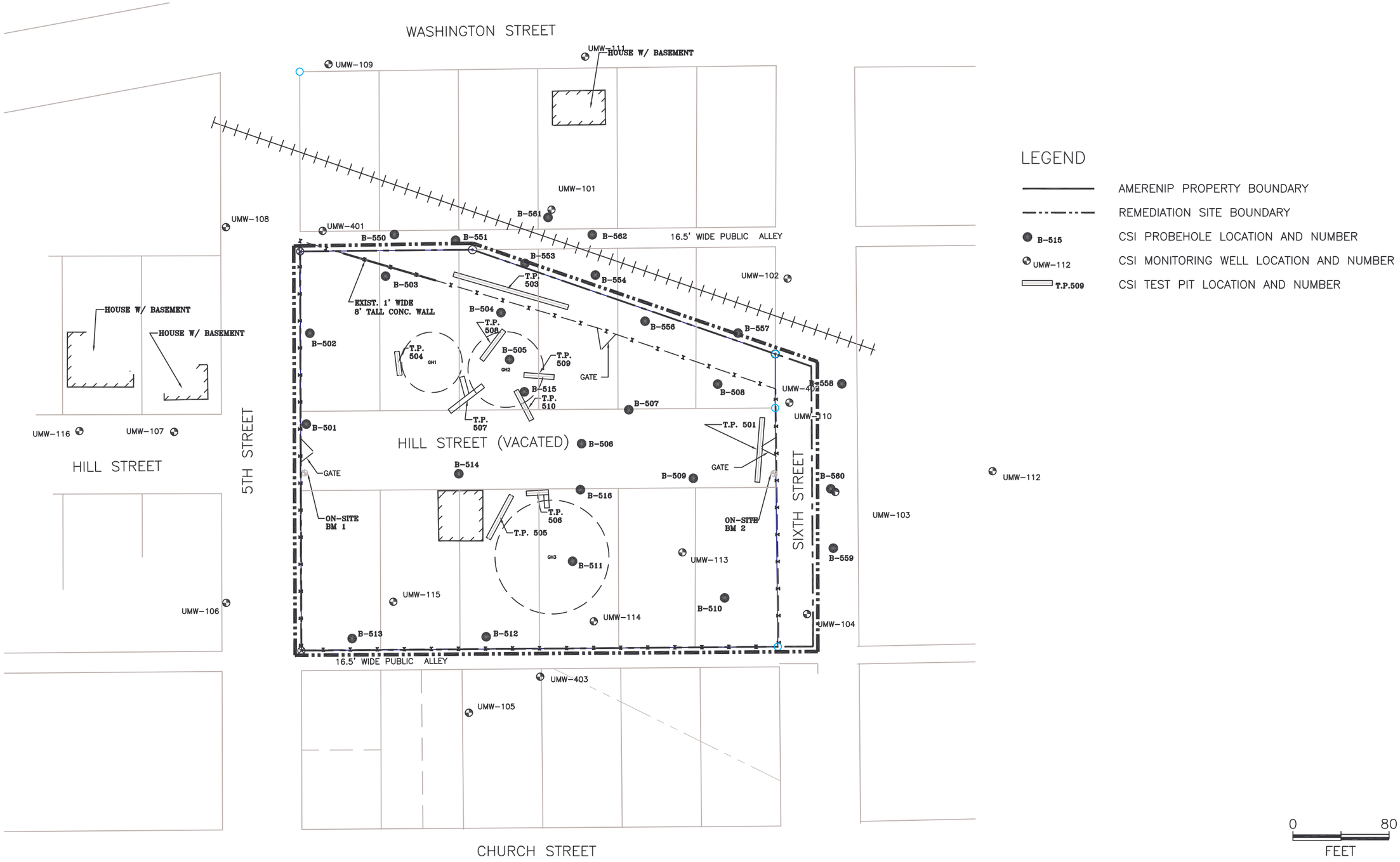


J:\624\02647B-007
COL.

PSC

TITLE:
CSI GROUNDWATER SAMPLE LOCATIONS
2004 INVESTIGATION

DWN: TMM	DES: JG	PROJECT NO: 62402647	
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 4-3	



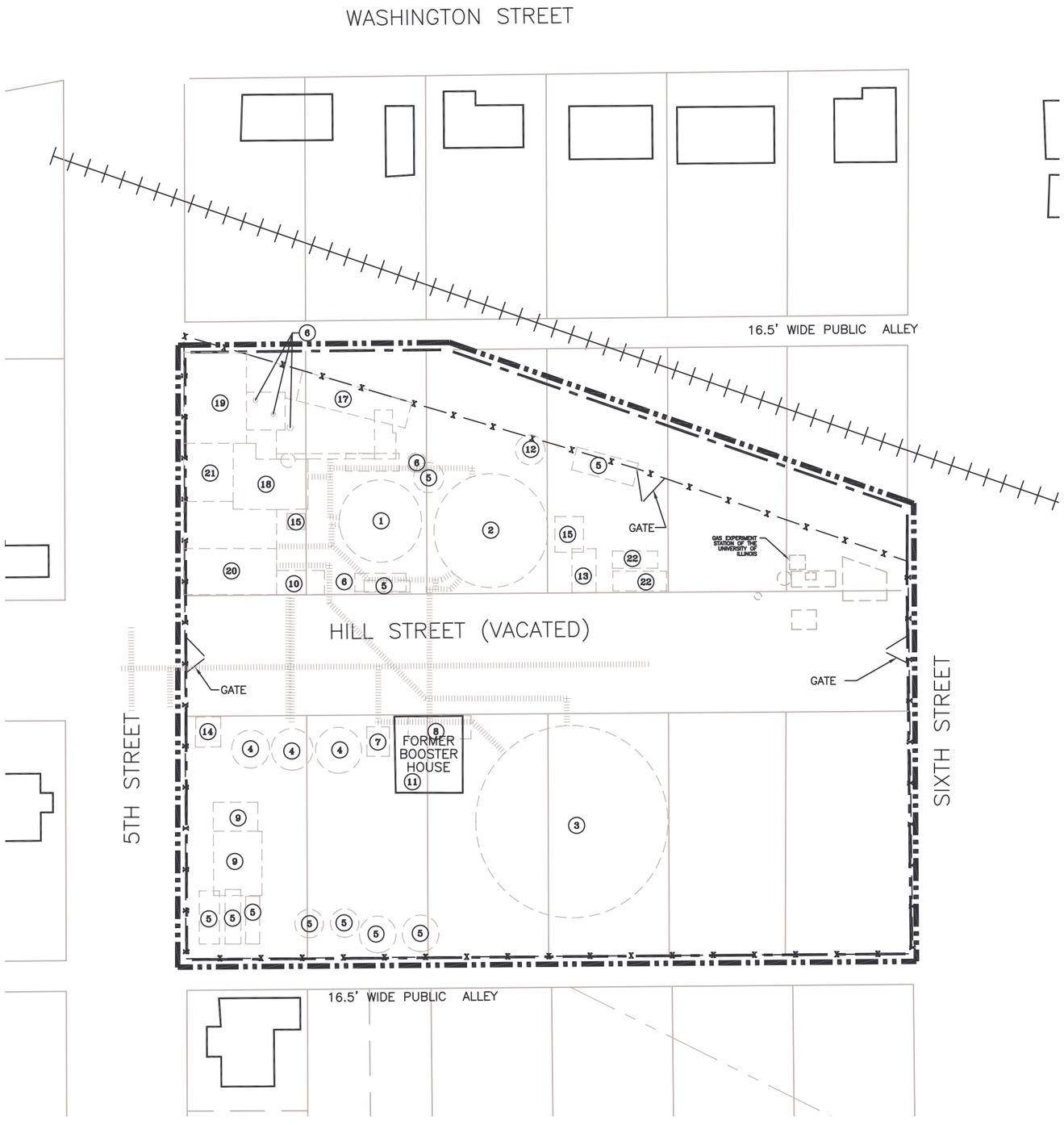
COL J:\624\02647A-026

PSC

TITLE:

CSI SAMPLE LOCATIONS
2004 LOCATIONS

DWN: TMM	DES: JG	PROJECT NO: 62402647	
CHKD:	APPD:	AMEREN IP CHAMPAIGN, ILLINOIS	
DATE: 12/14/07	REV:	FIGURE 4-4	



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- LOT LINE
- FENCE
- (1) GAS HOLDER GH–1
- (2) GAS HOLDER GH–2
- (3) GAS HOLDER GH–3
- (4) PUIFIER
- (5) OIL TANK
- (6) TAR SEPARATOR
- (7) SCRUBBER
- (8) BOOSTER
- (9) METER SHOP
- (10) OFFICE
- (11) PUMP HOUSE
- (12) SETTLING TANK
- (13) PUMP HOUSE / DEHYDRATOR HOUSE
- (14) TOOL ROOM / OFFICE / GARAGE
- (15) CRUSHER HOUSE
- (16) WELL HOUSE
- (17) COAL SHED
- (18) WATER GAS ROOM
- (19) RETORTS
- (20) PURIFYING ROOM
- (21) CONDENSING ROOM
- (22) OIL TANK / TAR WELL
- (23) BOILER ROOM

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

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FEET

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NO.	REVISION	BY	APPR.	DATE

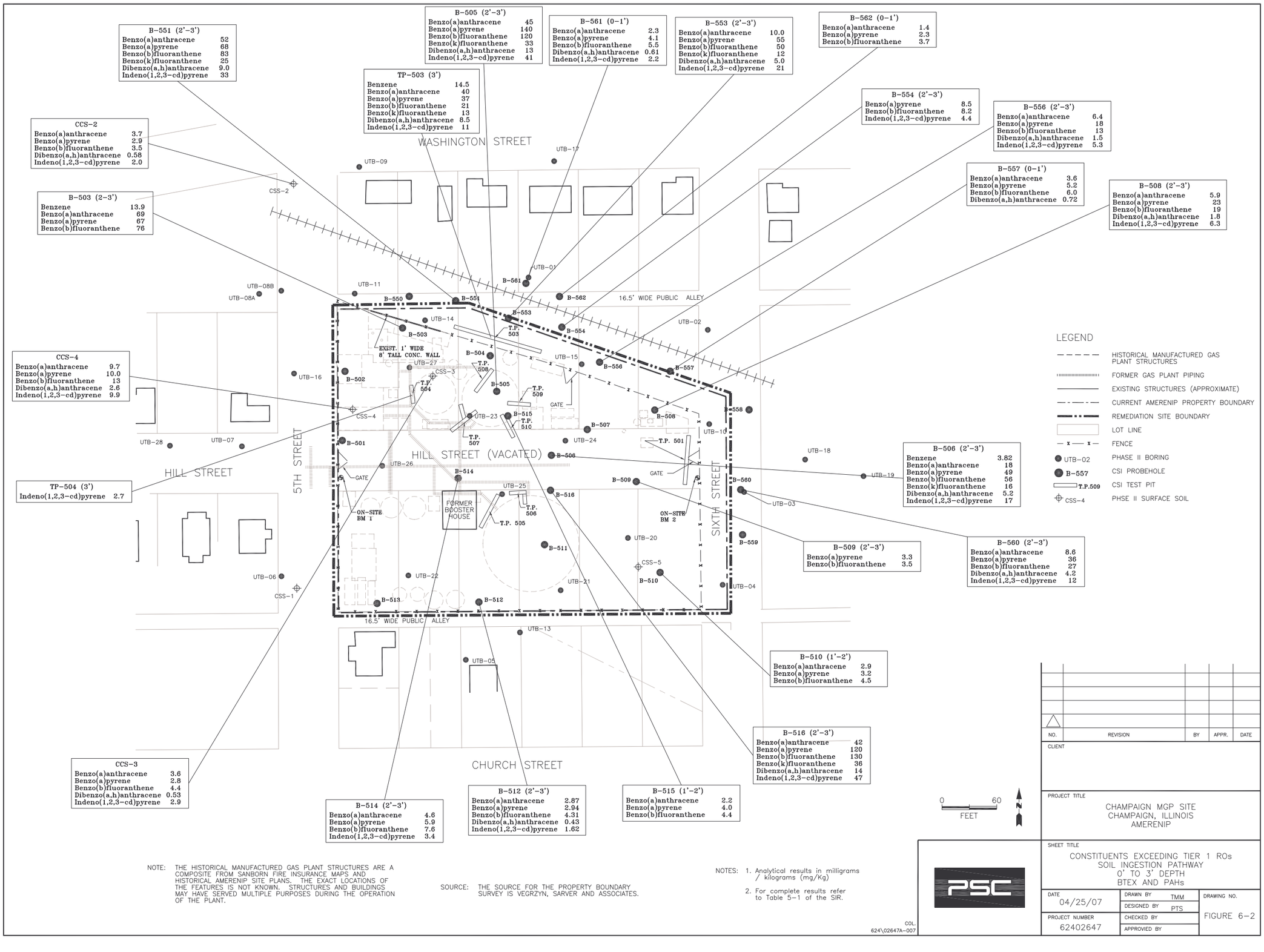
CLIENT

PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

SHEET TITLE
HISTORICAL MANUFACTURED GAS PLANT BUILDINGS AND STRUCTURES

DATE 3/23/06	DRAWN BY TMM	DRAWING NO. FIGURE 6–1
	DESIGNED BY	
PROJECT NUMBER 62402647	CHECKED BY	
	APPROVED BY	

COL.
624\02647B–014



NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

NOTES: 1. Analytical results in milligrams / kilograms (mg/Kg)

2. For complete results refer to Table 5-1 of the SIR.

COL.
624\02647A-007

NO.	REVISION	BY	APPR.	DATE

CLIENT

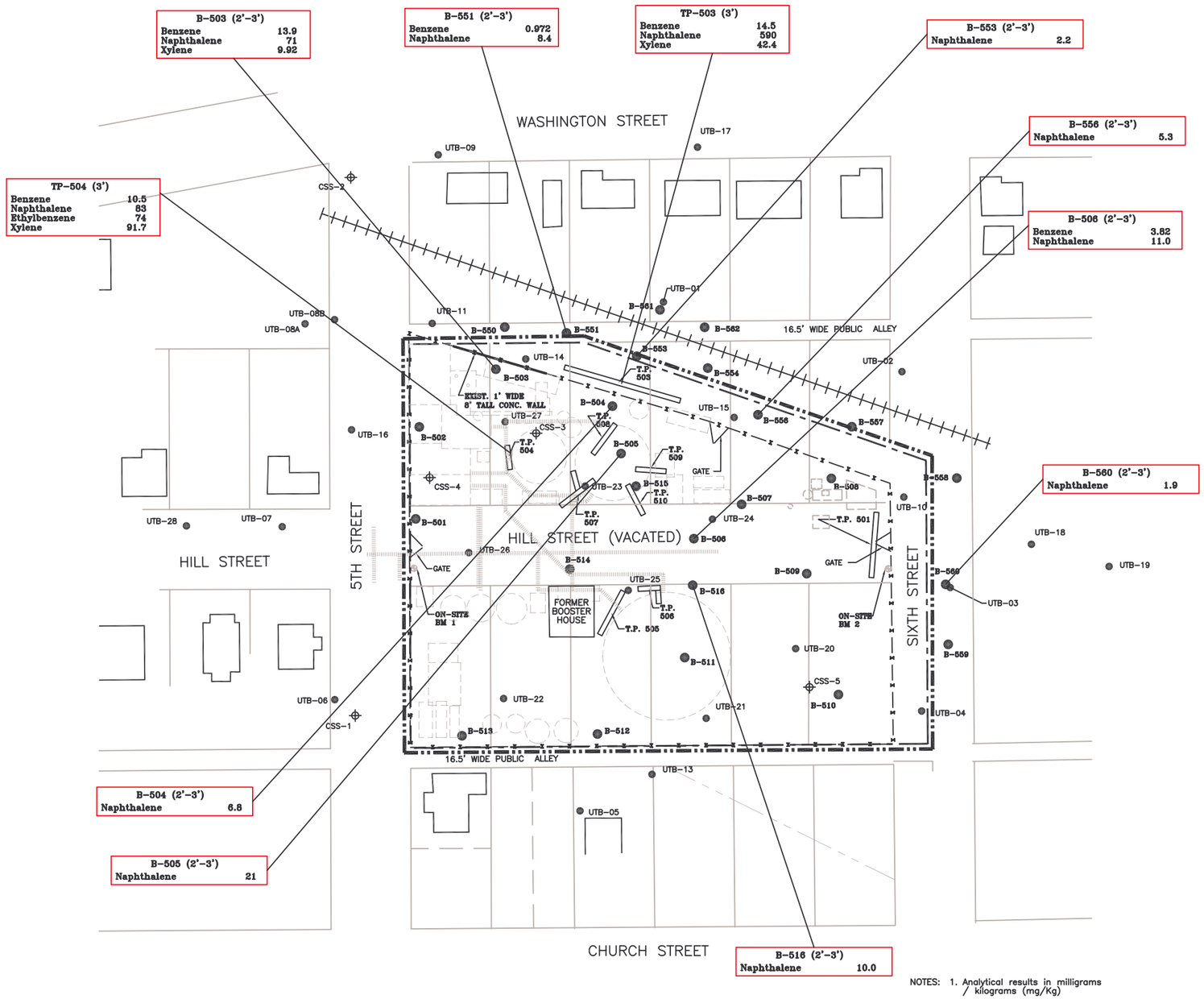
PROJECT TITLE

CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

SHEET TITLE

CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL INGESTION PATHWAY
0' TO 3' DEPTH
BTEX AND PAHs

DATE 04/25/07	DRAWN BY TMM	DRAWING NO. FIGURE 6-2
	DESIGNED BY PTS	
PROJECT NUMBER 62402647	CHECKED BY	
	APPROVED BY	



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- LOT LINE
- FENCE
- UTB-02 PHASE II BORING
- B-557 CSI PROBEHOLE
- T.P.509 CSI TEST PIT
- CSS-4 PHSE II SURFACE SOIL

NOTES:
1. Analytical results in milligrams / kilograms (mg/Kg)
2. For complete results refer to Table 5-1 of the SIR.

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NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

COL.
624\02647A-008

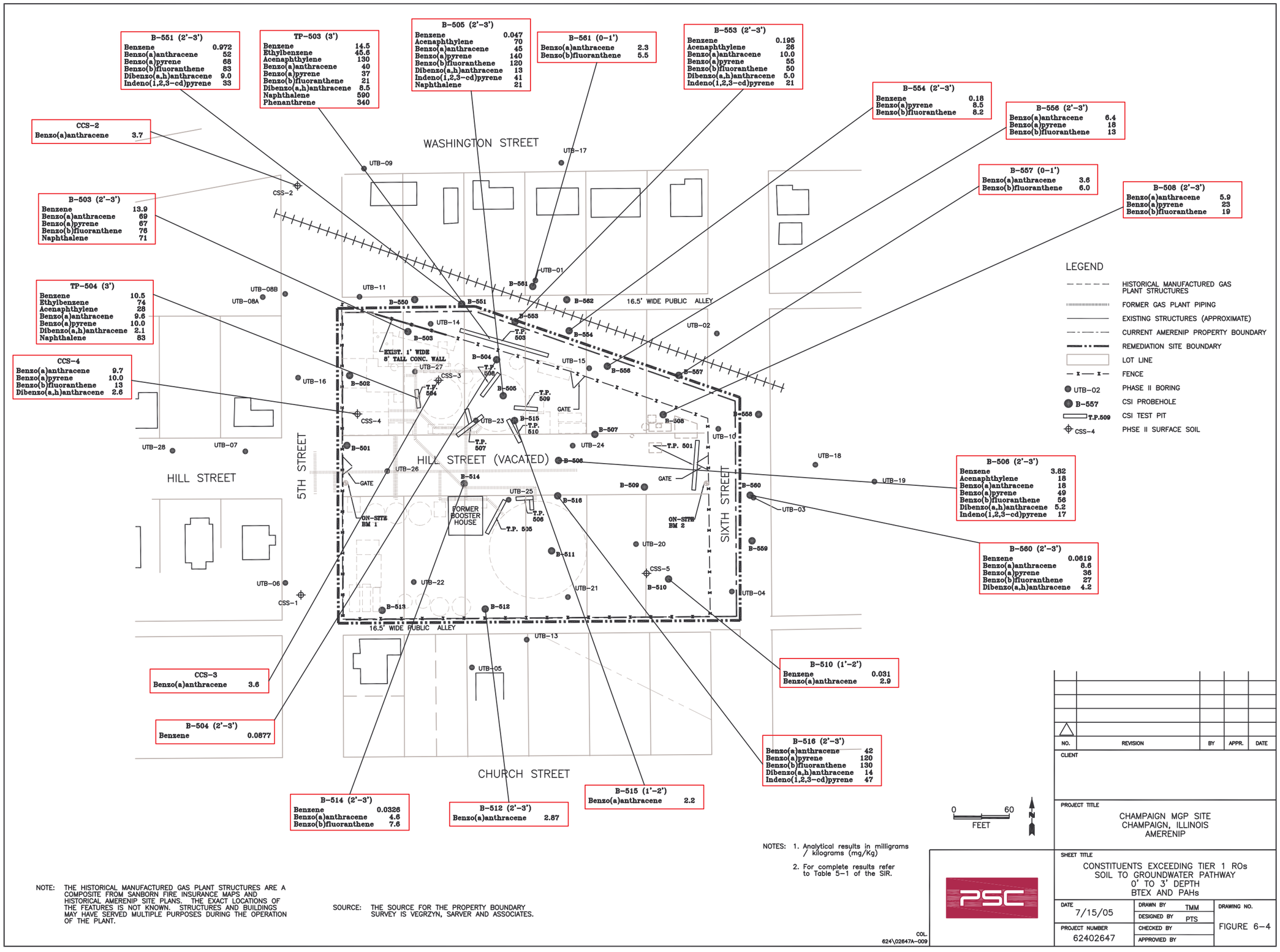
NO.	REVISION	BY	APPR.	DATE

CLIENT

PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

SHEET TITLE
CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL INHALATION PATHWAY
0' TO 3' DEPTH
BTEX AND NAPHTHALENE

DATE	DRAWN BY	DRAWING NO.
7/15/05	TMM	FIGURE 6-3
PROJECT NUMBER	DESIGNED BY PTS	
62402647	CHECKED BY	
	APPROVED BY	



NOTES:
1. Analytical results in milligrams / kilograms (mg/Kg)
2. For complete results refer to Table 5-1 of the SIR.

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

NO.	REVISION	BY	APPR.	DATE

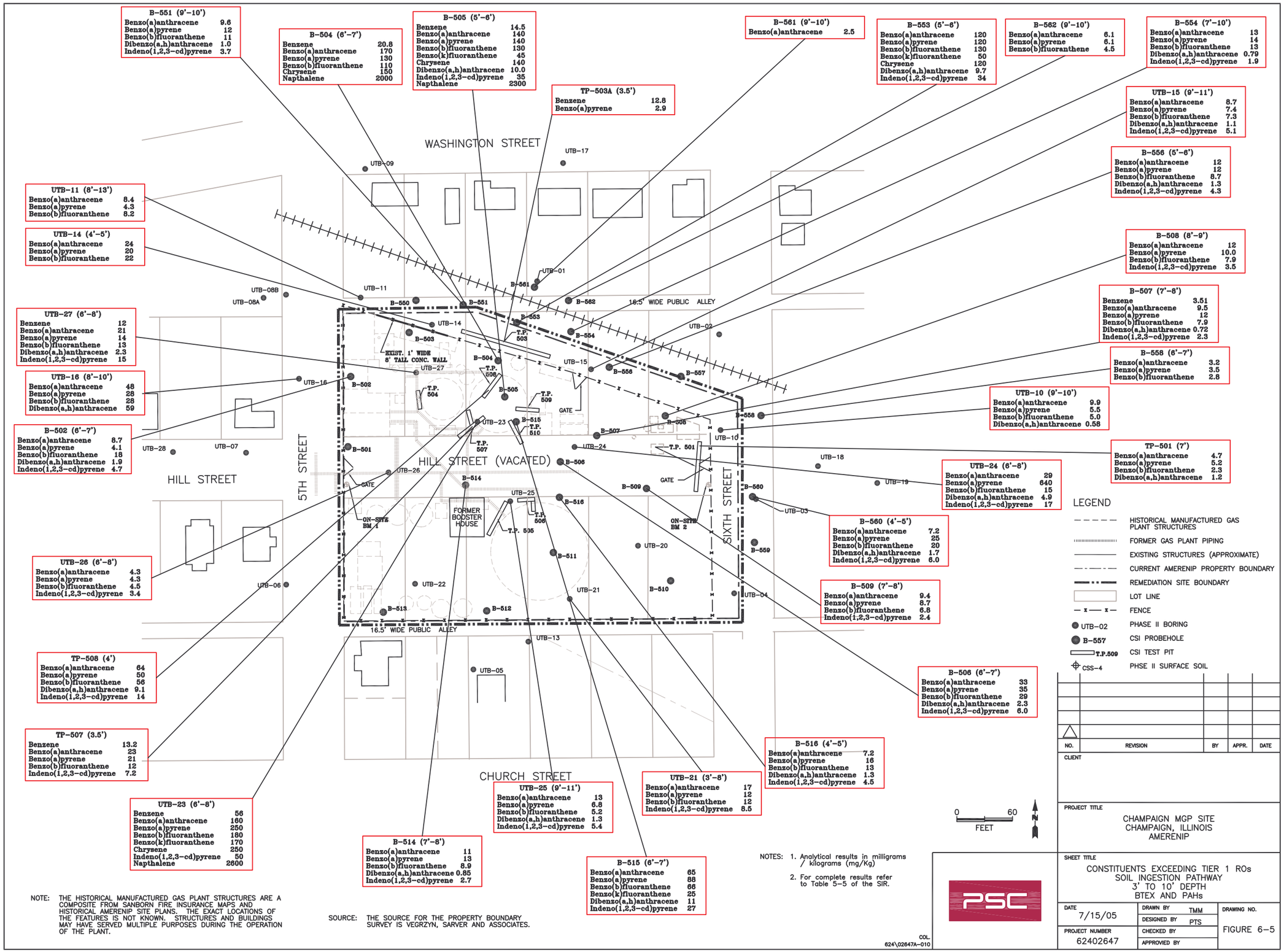
CLIENT

PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

SHEET TITLE
CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL TO GROUNDWATER PATHWAY
0' TO 3' DEPTH
BTEX AND PAHs

DATE 7/15/05	DRAWN BY TMM	DRAWING NO. FIGURE 6-4
	DESIGNED BY PTS	
PROJECT NUMBER 62402647	CHECKED BY	
	APPROVED BY	

COL.
624\02647A-009



B-551 (9'–10')

Benzo(a)anthracene	9.6
Benzo(a)pyrene	12
Benzo(b)fluoranthene	11
Dibenzo(a,h)anthracene	1.0
Indeno(1,2,3–cd)pyrene	3.7

B-504 (6'–7')

Benzene	20.8
Benzo(a)anthracene	170
Benzo(a)pyrene	130
Benzo(b)fluoranthene	110
Chrysene	150
Napthalene	2000

B-505 (5'–6')

Benzene	14.5
Benzo(a)anthracene	140
Benzo(a)pyrene	140
Benzo(b)fluoranthene	130
Benzo(k)fluoranthene	45
Chrysene	140
Dibenzo(a,h)anthracene	10.0
Indeno(1,2,3–cd)pyrene	35
Napthalene	2300

TP-503A (3.5')

Benzene	12.8
Benzo(a)pyrene	2.9

B-561 (9'–10')

Benzo(a)anthracene	2.5

B-553 (5'–6')

Benzo(a)anthracene	120
Benzo(a)pyrene	120
Benzo(b)fluoranthene	130
Benzo(k)fluoranthene	50
Chrysene	120
Dibenzo(a,h)anthracene	9.7
Indeno(1,2,3–cd)pyrene	34

B-562 (9'–10')

Benzo(a)anthracene	6.1
Benzo(a)pyrene	6.1
Benzo(b)fluoranthene	4.5

B-554 (7'–10')

Benzo(a)anthracene	13
Benzo(a)pyrene	14
Benzo(b)fluoranthene	13
Dibenzo(a,h)anthracene	0.79
Indeno(1,2,3–cd)pyrene	1.9

UTB-15 (9'–11')

Benzo(a)anthracene	8.7
Benzo(a)pyrene	7.4
Benzo(b)fluoranthene	7.3
Dibenzo(a,h)anthracene	1.1
Indeno(1,2,3–cd)pyrene	5.1

B-556 (5'–6')

Benzo(a)anthracene	12
Benzo(a)pyrene	12
Benzo(b)fluoranthene	8.7
Dibenzo(a,h)anthracene	1.3
Indeno(1,2,3–cd)pyrene	4.3

UTB-11 (8'–13')

Benzo(a)anthracene	8.4
Benzo(a)pyrene	4.3
Benzo(b)fluoranthene	8.2

UTB-14 (4'–5')

Benzo(a)anthracene	24
Benzo(a)pyrene	20
Benzo(b)fluoranthene	22

B-508 (8'–9')

Benzo(a)anthracene	12
Benzo(a)pyrene	10.0
Benzo(b)fluoranthene	7.9
Indeno(1,2,3–cd)pyrene	3.5

B-507 (7'–8')

Benzene	3.51
Benzo(a)anthracene	9.5
Benzo(a)pyrene	12
Benzo(b)fluoranthene	7.9
Dibenzo(a,h)anthracene	0.72
Indeno(1,2,3–cd)pyrene	2.3

UTB-27 (6'–8')

Benzene	12
Benzo(a)anthracene	21
Benzo(a)pyrene	14
Benzo(b)fluoranthene	13
Dibenzo(a,h)anthracene	2.3
Indeno(1,2,3–cd)pyrene	15

B-558 (6'–7')

Benzo(a)anthracene	3.2
Benzo(a)pyrene	3.5
Benzo(b)fluoranthene	2.8

UTB-16 (8'–10')

Benzo(a)anthracene	48
Benzo(a)pyrene	28
Benzo(b)fluoranthene	28
Dibenzo(a,h)anthracene	59

UTB-10 (9'–10')

Benzo(a)anthracene	9.9
Benzo(a)pyrene	5.5
Benzo(b)fluoranthene	5.0
Dibenzo(a,h)anthracene	0.58

B-502 (6'–7')

Benzo(a)anthracene	8.7
Benzo(a)pyrene	4.1
Benzo(b)fluoranthene	18
Dibenzo(a,h)anthracene	1.9
Indeno(1,2,3–cd)pyrene	4.7

TP-501 (7')

Benzo(a)anthracene	4.7
Benzo(a)pyrene	5.2
Benzo(b)fluoranthene	2.3
Dibenzo(a,h)anthracene	1.2

UTB-24 (6'–8')

Benzo(a)anthracene	29
Benzo(a)pyrene	640
Benzo(b)fluoranthene	15
Dibenzo(a,h)anthracene	4.9
Indeno(1,2,3–cd)pyrene	17

B-560 (4'–5')

Benzo(a)anthracene	7.2
Benzo(a)pyrene	25
Benzo(b)fluoranthene	20
Dibenzo(a,h)anthracene	1.7
Indeno(1,2,3–cd)pyrene	6.0

UTB-26 (6'–8')

Benzo(a)anthracene	4.3
Benzo(a)pyrene	4.3
Benzo(b)fluoranthene	4.5
Indeno(1,2,3–cd)pyrene	3.4

B-509 (7'–8')

Benzo(a)anthracene	9.4
Benzo(a)pyrene	8.7
Benzo(b)fluoranthene	6.8
Indeno(1,2,3–cd)pyrene	2.4

TP-508 (4')

Benzo(a)anthracene	64
Benzo(a)pyrene	50
Benzo(b)fluoranthene	56
Dibenzo(a,h)anthracene	9.1
Indeno(1,2,3–cd)pyrene	14

B-506 (6'–7')

Benzo(a)anthracene	33
Benzo(a)pyrene	35
Benzo(b)fluoranthene	29
Dibenzo(a,h)anthracene	2.3
Indeno(1,2,3–cd)pyrene	6.0

TP-507 (3.5')

Benzene	13.2
Benzo(a)anthracene	23
Benzo(a)pyrene	21
Benzo(b)fluoranthene	12
Indeno(1,2,3–cd)pyrene	7.2

B-516 (4'–5')

Benzo(a)anthracene	7.2
Benzo(a)pyrene	16
Benzo(b)fluoranthene	13
Dibenzo(a,h)anthracene	1.3
Indeno(1,2,3–cd)pyrene	4.5

UTB-21 (3'–8')

Benzo(a)anthracene	17
Benzo(a)pyrene	12
Benzo(b)fluoranthene	12
Indeno(1,2,3–cd)pyrene	5.5

UTB-25 (9'–11')

Benzo(a)anthracene	13
Benzo(a)pyrene	6.8
Benzo(b)fluoranthene	5.2
Dibenzo(a,h)anthracene	1.3
Indeno(1,2,3–cd)pyrene	5.4

UTB-23 (6'–8')

Benzene	56
Benzo(a)anthracene	160
Benzo(a)pyrene	250
Benzo(b)fluoranthene	180
Benzo(k)fluoranthene	170
Chrysene	250
Indeno(1,2,3–cd)pyrene	50
Napthalene	2600

B-514 (7'–8')

Benzo(a)anthracene	11
Benzo(a)pyrene	13
Benzo(b)fluoranthene	8.9
Dibenzo(a,h)anthracene	0.85
Indeno(1,2,3–cd)pyrene	2.7

B-515 (6'–7')

Benzo(a)anthracene	65
Benzo(a)pyrene	88
Benzo(b)fluoranthene	66
Benzo(k)fluoranthene	25
Dibenzo(a,h)anthracene	11
Indeno(1,2,3–cd)pyrene	27

LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- LOT LINE
- FENCE
- UTB–02 PHASE II BORING
- B–557 CSI PROBEHOLE
- T.P.509 CSI TEST PIT
- CSS–4 PHSE II SURFACE SOIL

NOTES:
1. Analytical results in milligrams / kilograms (mg/Kg)
2. For complete results refer to Table 5–5 of the SIR.

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

COL.
624\02647A–010

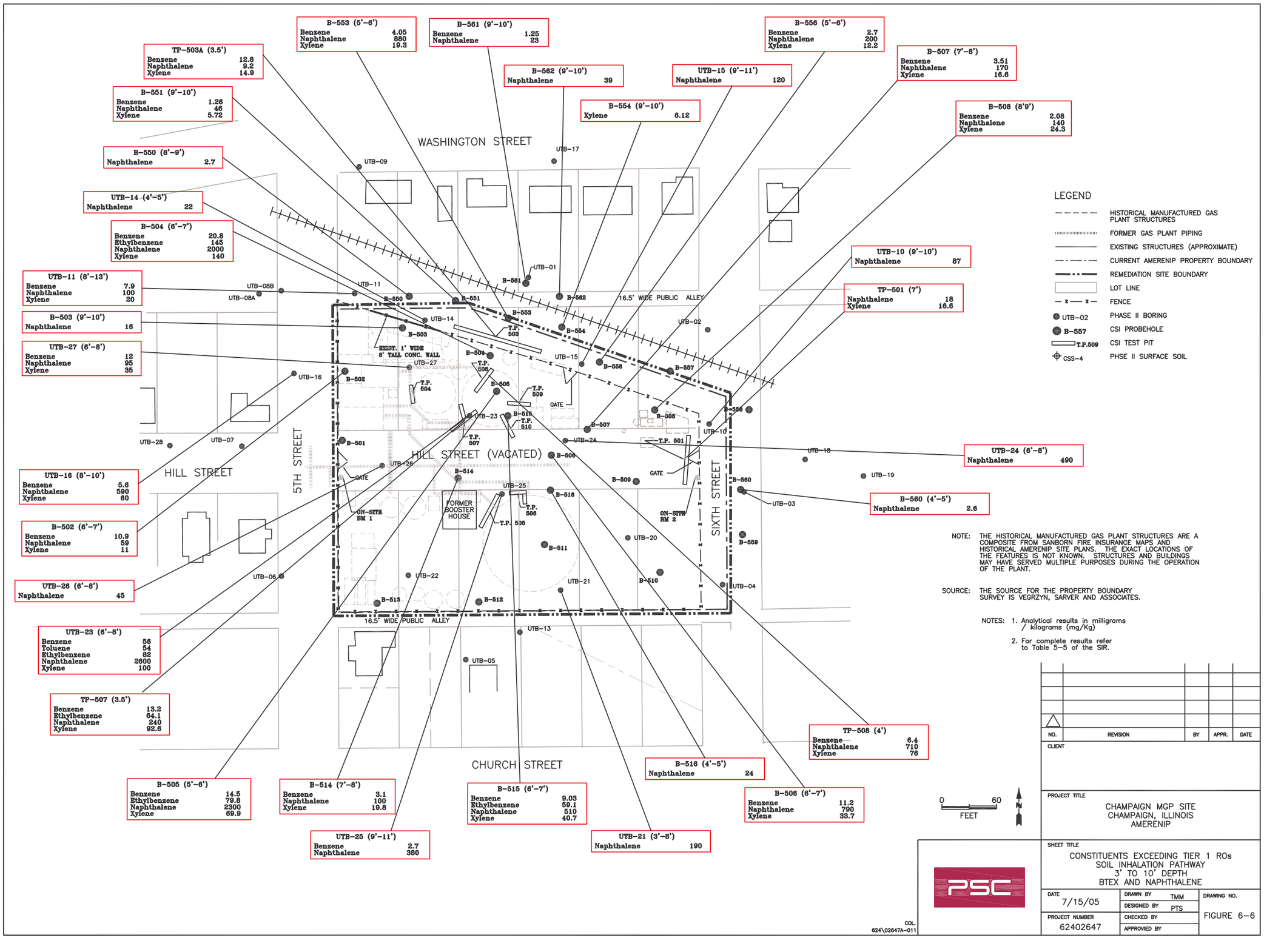
NO.	REVISION	BY	APPR.	DATE

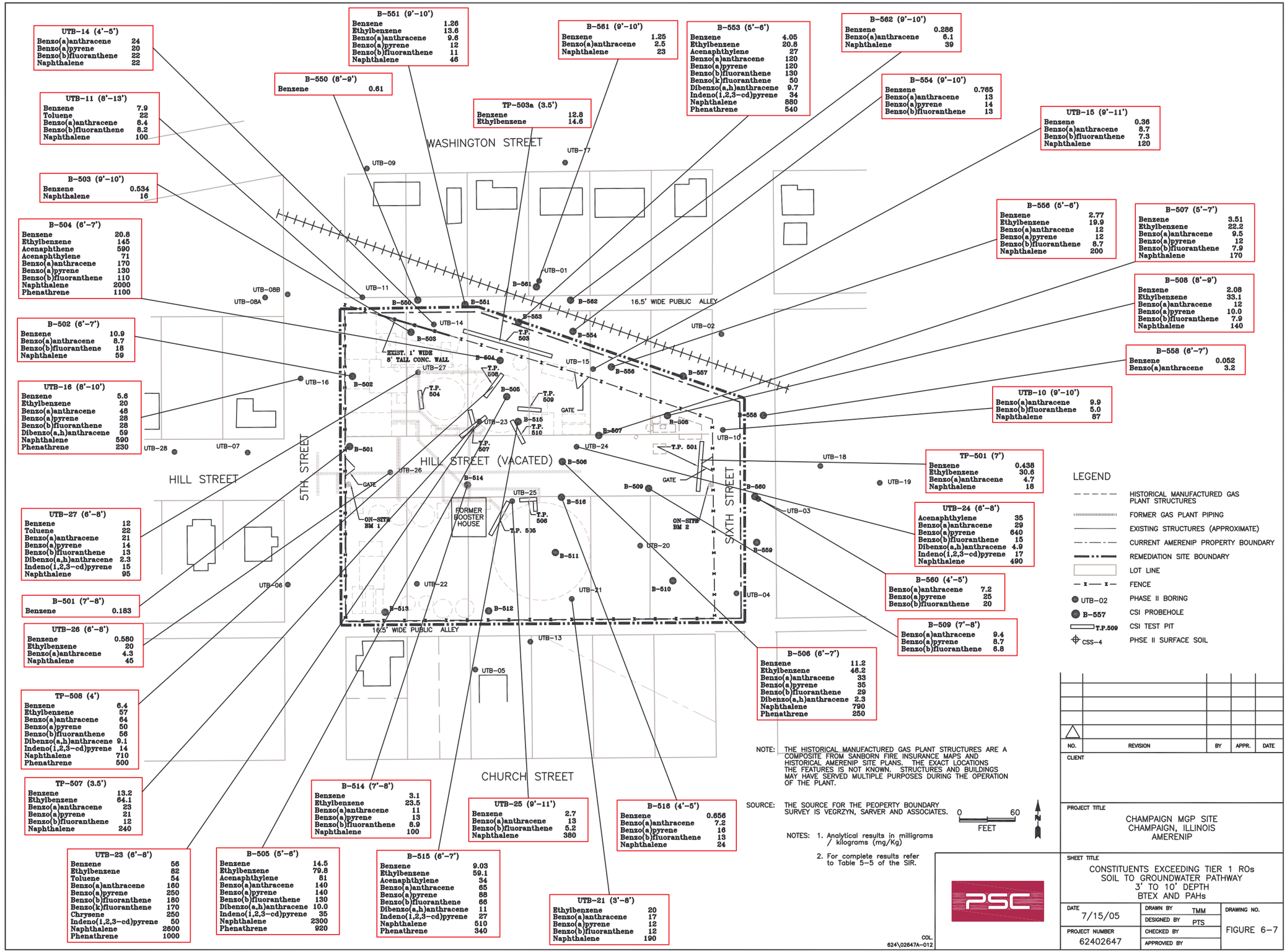
CLIENT

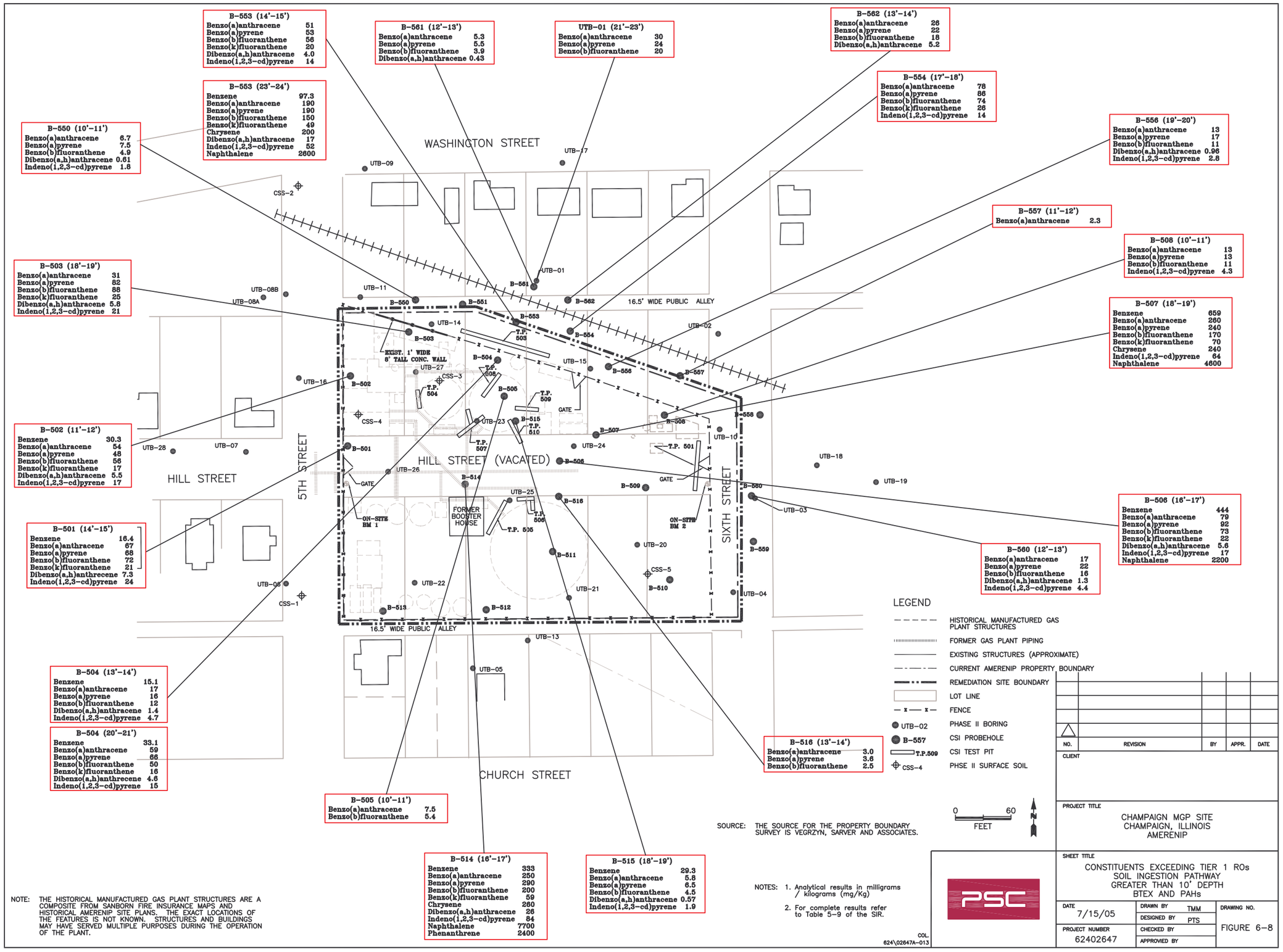
PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

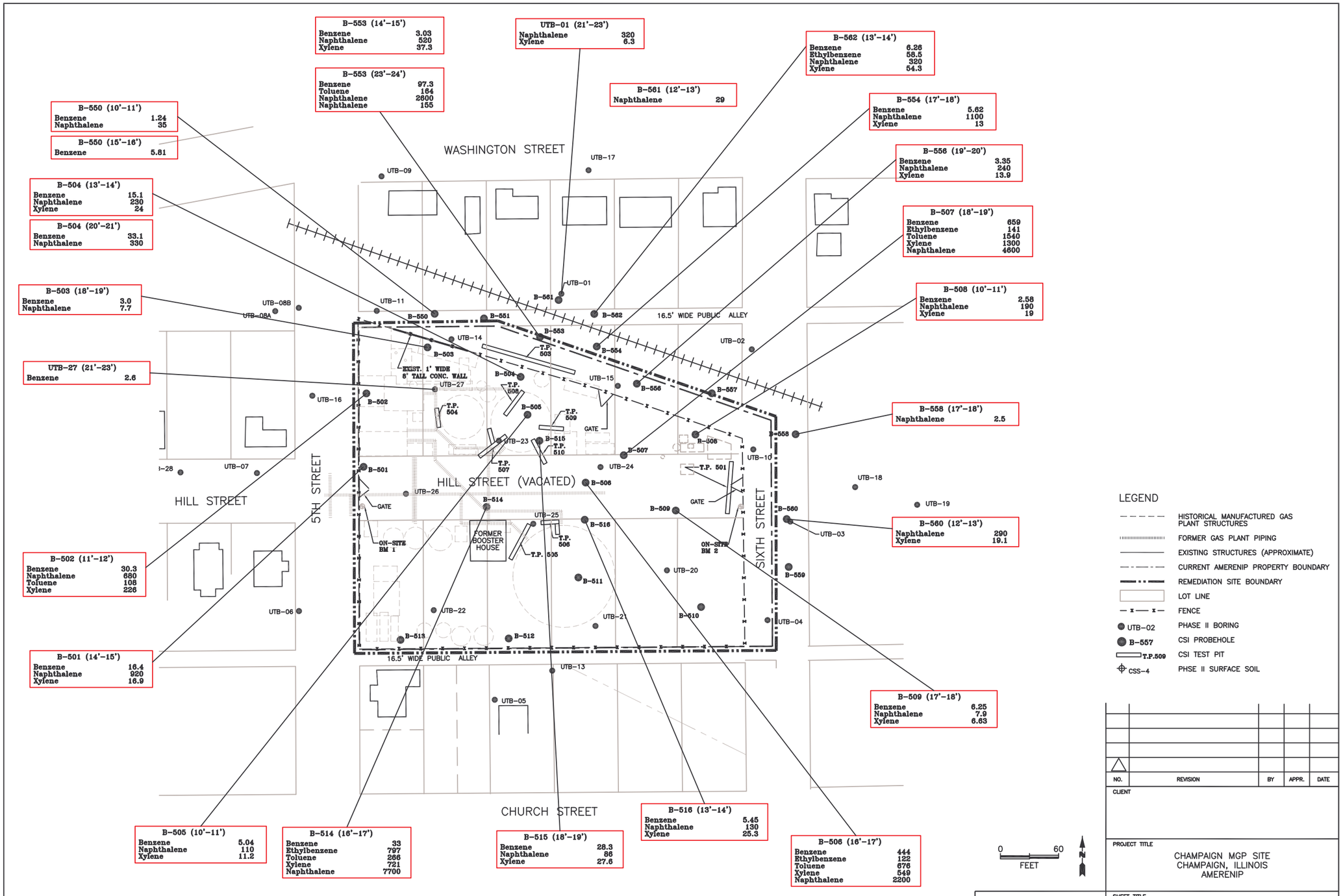
SHEET TITLE
CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL INGESTION PATHWAY
3' TO 10' DEPTH
BTEX AND PAHs

DATE 7/15/05	DRAWN BY TMM	DRAWING NO.
	DESIGNED BY PTS	FIGURE 6–5
PROJECT NUMBER 62402647	CHECKED BY	
	APPROVED BY	


B-553 (5'-6')
Benzene 4.05
Naphthalene 880
Xylene 19.3
B-561 (9'-10')
Benzene 1.25
Naphthalene 23
B-556 (5'-6')
Benzene 2.7
Naphthalene 200
Xylene 12.2
TP-503A (3.5')
Benzene 12.8
Naphthalene 9.2
Xylene 14.9
B-562 (9'-10')
Naphthalene 39
UTB-15 (9'-11')
Naphthalene 120
B-507 (7'-8')
Benzene 3.51
Naphthalene 170
Xylene 16.6
B-551 (9'-10')
Benzene 1.26
Naphthalene 46
Xylene 5.72
B-554 (9'-10')
Xylene 6.12
B-508 (8'9')
Benzene 2.08
Naphthalene 140
Xylene 24.3
B-550 (8'-9')
Naphthalene 2.7
WASHINGTON STREET
UTB-09
UTB-17
UTB-14 (4'-5')
Naphthalene 22
B-504 (6'-7')
Benzene 20.8
Ethylbenzene 145
Naphthalene 2000
Xylene 140
UTB-10 (9'-10')
Naphthalene 87
UTB-11 (8'-13')
Benzene 7.9
Naphthalene 100
Xylene 20
UTB-01
B-561
B-562
UTB-08B
UTB-08A
UTB-11
B-550
B-551
16.5' WIDE PUBLIC ALLEY
TP-501 (7')
Naphthalene 18
Xylene 16.6
B-553
B-503 (9'-10')
Naphthalene 16
UTB-14
B-503
T.P. 503
B-554
UTB-02
EXIST. 1' WIDE 8' TALL CONC. WALL
UTB-27 (6'-8')
Benzene 12
Naphthalene 95
Xylene 35
UTB-27
B-504
T.P. 506
UTB-15
B-556
B-557
UTB-16
B-502
T.P. 504
B-505
T.P. 509
GATE
B-558
UTB-23
B-515
T.P. 510
B-507
UTB-10
T.P. 501
UTB-28
UTB-07
B-501
T.P. 507
UTB-24
UTB-18
UTB-24 (6'-8')
Naphthalene 490
HILL STREET
5TH STREET
HILL STREET (VACATED)
B-506
UTB-19
UTB-16 (8'-10')
Benzene 5.6
Naphthalene 590
Xylene 60
UTB-26
B-514
GATE
B-509
B-560
B-560 (4'-5')
Naphthalene 2.6
UTB-25
B-516
T.P. 506
FORMER BOOSTER HOUSE
T.P. 505
ON-SITE BM 1
ON-SITE BM 2
SIXTH STREET
UTB-03
B-502 (6'-7')
Benzene 10.9
Naphthalene 59
Xylene 11
B-511
UTB-20
B-559
UTB-26 (6'-8')
Naphthalene 45
UTB-06
UTB-22
UTB-21
B-510
UTB-04
B-513
B-512
16.5' WIDE PUBLIC ALLEY
UTB-13
UTB-05
UTB-23 (6'-8')
Benzene 56
Toluene 54
Ethylbenzene 82
Naphthalene 2600
Xylene 100
TP-507 (3.5')
Benzene 13.2
Ethylbenzene 64.1
Naphthalene 240
Xylene 92.6
TP-508 (4')
Benzene 6.4
Naphthalene 710
Xylene 76
B-516 (4'-5')
Naphthalene 24
CHURCH STREET
B-505 (5'-6')
Benzene 14.5
Ethylbenzene 79.8
Naphthalene 2300
Xylene 69.9
B-514 (7'-8')
Benzene 3.1
Naphthalene 100
Xylene 19.8
B-515 (6'-7')
Benzene 9.03
Ethylbenzene 59.1
Naphthalene 510
Xylene 40.7
B-506 (6'-7')
Benzene 11.2
Naphthalene 790
Xylene 33.7
UTB-25 (9'-11')
Benzene 2.7
Naphthalene 380
UTB-21 (3'-8')
Naphthalene 190
LEGEND
HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
FORMER GAS PLANT PIPING
EXISTING STRUCTURES (APPROXIMATE)
CURRENT AMERENIP PROPERTY BOUNDARY
REMEDIATION SITE BOUNDARY
LOT LINE
FENCE
UTB-02 PHASE II BORING
B-557 CSI PROBEHOLE
T.P.509 CSI TEST PIT
CSS-4 PHSE II SURFACE SOIL
NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.
SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.
NOTES: 1. Analytical results in milligrams / kilograms (mg/Kg)
2. For complete results refer to Table 5-5 of the SIR.
0 60
FEET
N
NO. REVISION BY APPR. DATE
CLIENT
PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP
SHEET TITLE
CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL INHALATION PATHWAY
3' TO 10' DEPTH
BTEX AND NAPHTHALENE
DATE 7/15/05
DRAWN BY TMM
DESIGNED BY PTS
PROJECT NUMBER 62402647
CHECKED BY
APPROVED BY
DRAWING NO.
FIGURE 6-6
COL.
624\02647A-011


WASHINGTON STREET
HILL STREET
HILL STREET (VACATED)
CHURCH STREET
5TH STREET
SIXTH STREET
16.5' WIDE PUBLIC ALLEY
16.5' WIDE PUBLIC ALLEY
EXIST. 1' WIDE 6' TALL CONC. WALL
FORMER BOOSTER HOUSE
ON-SITE BM 1
ON-SITE BM 2
GATE
GATE
UTB-14 (4'–5')
Benzo(a)anthracene 24
Benzo(a)pyrene 20
Benzo(b)fluoranthene 22
Naphthalene 22
UTB-11 (8'–13')
Benzene 7.9
Toluene 22
Benzo(a)anthracene 8.4
Benzo(b)fluoranthene 8.2
Naphthalene 100
B-503 (9'–10')
Benzene 0.534
Naphthalene 16
B-504 (6'–7')
Benzene 20.8
Ethylbenzene 145
Acenaphthene 590
Acenaphthylene 71
Benzo(a)anthracene 170
Benzo(a)pyrene 130
Benzo(b)fluoranthene 110
Naphthalene 2000
Phenathrene 1100
B-502 (6'–7')
Benzene 10.9
Benzo(a)anthracene 8.7
Benzo(b)fluoranthene 18
Naphthalene 59
UTB-16 (8'–10')
Benzene 5.6
Ethylbenzene 20
Benzo(a)anthracene 48
Benzo(a)pyrene 28
Benzo(b)fluoranthene 28
Dibenzo(a,h)anthracene 59
Naphthalene 590
Phenathrene 230
UTB-27 (6'–8')
Benzene 12
Toluene 22
Benzo(a)anthracene 21
Benzo(a)pyrene 14
Benzo(b)fluoranthene 13
Dibenzo(a,h)anthracene 2.3
Indeno(1,2,3–cd)pyrene 15
Naphthalene 95
B-501 (7'–8')
Benzene 0.183
UTB-26 (6'–8')
Benzene 0.580
Ethylbenzene 20
Benzo(a)anthracene 4.3
Naphthalene 45
TP-508 (4')
Benzene 6.4
Ethylbenzene 57
Benzo(a)anthracene 64
Benzo(a)pyrene 50
Benzo(b)fluoranthene 56
Dibenzo(a,h)anthracene 9.1
Indeno(1,2,3–cd)pyrene 14
Naphthalene 710
Phenathrene 500
TP-507 (3.5')
Benzene 13.2
Ethylbenzene 64.1
Benzo(a)anthracene 23
Benzo(a)pyrene 21
Benzo(b)fluoranthene 12
Naphthalene 240
UTB-23 (6'–8')
Benzene 56
Ethylbenzene 82
Toluene 54
Benzo(a)anthracene 160
Benzo(a)pyrene 250
Benzo(b)fluoranthene 180
Benzo(k)fluoranthene 170
Chrysene 250
Indeno(1,2,3–cd)pyrene 50
Naphthalene 2600
Phenathrene 1000
B-505 (5'–6')
Benzene 14.5
Ethylbenzene 79.8
Acenaphthylene 81
Benzo(a)anthracene 140
Benzo(a)pyrene 140
Benzo(b)fluoranthene 130
Dibenzo(a,h)anthracene 10.0
Indeno(1,2,3–cd)pyrene 35
Naphthalene 2300
Phenathrene 920
B-514 (7'–8')
Benzene 3.1
Ethylbenzene 23.5
Benzo(a)anthracene 11
Benzo(a)pyrene 13
Benzo(b)fluoranthene 8.9
Naphthalene 100
B-515 (6'–7')
Benzene 9.03
Ethylbenzene 59.1
Acenaphthylene 34
Benzo(a)anthracene 65
Benzo(a)pyrene 88
Benzo(b)fluoranthene 66
Dibenzo(a,h)anthracene 11
Indeno(1,2,3–cd)pyrene 27
Naphthalene 510
Phenathrene 340
UTB-25 (9'–11')
Benzene 2.7
Benzo(a)anthracene 13
Benzo(b)fluoranthene 5.2
Naphthalene 380
UTB-21 (3'–8')
Ethylbenzene 20
Benzo(a)anthracene 17
Benzo(a)pyrene 12
Benzo(b)fluoranthene 12
Naphthalene 190
B-516 (4'–5')
Benzene 0.656
Benzo(a)anthracene 7.2
Benzo(a)pyrene 16
Benzo(b)fluoranthene 13
Naphthalene 24
B-551 (9'–10')
Benzene 1.26
Ethylbenzene 13.6
Benzo(a)anthracene 9.6
Benzo(a)pyrene 12
Benzo(b)fluoranthene 11
Naphthalene 46
B-550 (8'–9')
Benzene 0.61
TP-503a (3.5')
Benzene 12.8
Ethylbenzene 14.6
B-561 (9'–10')
Benzene 1.25
Benzo(a)anthracene 2.5
Naphthalene 23
B-553 (5'–6')
Benzene 4.05
Ethylbenzene 20.8
Acenaphthylene 27
Benzo(a)anthracene 120
Benzo(a)pyrene 120
Benzo(b)fluoranthene 130
Benzo(k)fluoranthene 50
Dibenzo(a,h)anthracene 9.7
Indeno(1,2,3–cd)pyrene 34
Naphthalene 880
Phenathrene 540
B-562 (9'–10')
Benzene 0.286
Benzo(a)anthracene 6.1
Naphthalene 39
B-554 (9'–10')
Benzene 0.765
Benzo(a)anthracene 13
Benzo(a)pyrene 14
Benzo(b)fluoranthene 13
UTB-15 (9'–11')
Benzene 0.36
Benzo(a)anthracene 8.7
Benzo(b)fluoranthene 7.3
Naphthalene 120
B-556 (5'–6')
Benzene 2.77
Ethylbenzene 19.9
Benzo(a)anthracene 12
Benzo(a)pyrene 12
Benzo(b)fluoranthene 8.7
Naphthalene 200
B-507 (5'–7')
Benzene 3.51
Ethylbenzene 22.2
Benzo(a)anthracene 9.5
Benzo(a)pyrene 12
Benzo(b)fluoranthene 7.9
Naphthalene 170
B-508 (8'–9')
Benzene 2.08
Ethylbenzene 33.1
Benzo(a)anthracene 12
Benzo(a)pyrene 10.0
Benzo(b)fluoranthene 7.9
Naphthalene 140
B-558 (6'–7')
Benzene 0.052
Benzo(a)anthracene 3.2
UTB-10 (9'–10')
Benzo(a)anthracene 9.9
Benzo(b)fluoranthene 5.0
Naphthalene 87
TP-501 (7')
Benzene 0.438
Ethylbenzene 30.6
Benzo(a)anthracene 4.7
Naphthalene 18
UTB-24 (6'–8')
Acenaphthylene 35
Benzo(a)anthracene 29
Benzo(a)pyrene 640
Benzo(b)fluoranthene 15
Dibenzo(a,h)anthracene 4.9
Indeno(1,2,3–cd)pyrene 17
Naphthalene 490
B-560 (4'–5')
Benzo(a)anthracene 7.2
Benzo(a)pyrene 25
Benzo(b)fluoranthene 20
B-509 (7'–8')
Benzo(a)anthracene 9.4
Benzo(a)pyrene 8.7
Benzo(b)fluoranthene 6.8
B-506 (6'–7')
Benzene 11.2
Ethylbenzene 46.2
Benzo(a)anthracene 33
Benzo(a)pyrene 35
Benzo(b)fluoranthene 29
Dibenzo(a,h)anthracene 2.3
Naphthalene 790
Phenathrene 250
UTB-01
UTB-02
UTB-03
UTB-04
UTB-05
UTB-06
UTB-07
UTB-08A
UTB-08B
UTB-09
UTB-10
UTB-11
UTB-13
UTB-14
UTB-15
UTB-16
UTB-17
UTB-18
UTB-19
UTB-20
UTB-21
UTB-22
UTB-23
UTB-24
UTB-25
UTB-26
UTB-27
UTB-28
B-501
B-502
B-503
B-504
B-505
B-506
B-507
B-508
B-509
B-510
B-511
B-512
B-513
B-514
B-515
B-516
B-550
B-551
B-553
B-554
B-556
B-557
B-558
B-559
B-560
B-561
B-562
T.P. 501
T.P. 503
T.P. 504
T.P. 505
T.P. 506
T.P. 507
T.P. 509
T.P. 510
LEGEND
HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
FORMER GAS PLANT PIPING
EXISTING STRUCTURES (APPROXIMATE)
CURRENT AMERENIP PROPERTY BOUNDARY
REMEDIATION SITE BOUNDARY
LOT LINE
FENCE
UTB-02 PHASE II BORING
B-557 CSI PROBEHOLE
T.P.509 CSI TEST PIT
CSS-4 PHSE II SURFACE SOIL
NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.
SOURCE: THE SOURCE FOR THE PEOPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.
0 60
FEET
N
NOTES: 1. Analytical results in milligrams / kilograms (mg/Kg)
2. For complete results refer to Table 5–5 of the SIR.
COL.
624\02647A–012
NO. REVISION BY APPR. DATE
CLIENT
PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP
SHEET TITLE
CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL TO GROUNDWATER PATHWAY
3' TO 10' DEPTH
BTEX AND PAHs
DATE 7/15/05
DRAWN BY TMM
DESIGNED BY PTS
CHECKED BY
APPROVED BY
PROJECT NUMBER 62402647
DRAWING NO. FIGURE 6–7


B-553 (14'-15')
Benzo(a)anthracene 51
Benzo(a)pyrene 53
Benzo(b)fluoranthene 56
Benzo(k)fluoranthene 20
Dibenzo(a,h)anthracene 4.0
Indeno(1,2,3-cd)pyrene 14
B-553 (23'-24')
Benzene 97.3
Benzo(a)anthracene 190
Benzo(a)pyrene 190
Benzo(b)fluoranthene 150
Benzo(k)fluoranthene 49
Chrysene 200
Dibenzo(a,h)anthracene 17
Indeno(1,2,3-cd)pyrene 52
Naphthalene 2600
B-561 (12'-13')
Benzo(a)anthracene 5.3
Benzo(a)pyrene 5.5
Benzo(b)fluoranthene 3.9
Dibenzo(a,h)anthracene 0.43
UTB-01 (21'-23')
Benzo(a)anthracene 30
Benzo(a)pyrene 24
Benzo(b)fluoranthene 20
B-562 (13'-14')
Benzo(a)anthracene 26
Benzo(a)pyrene 22
Benzo(b)fluoranthene 18
Dibenzo(a,h)anthracene 5.2
B-554 (17'-18')
Benzo(a)anthracene 78
Benzo(a)pyrene 66
Benzo(b)fluoranthene 74
Benzo(k)fluoranthene 26
Indeno(1,2,3-cd)pyrene 14
B-550 (10'-11')
Benzo(a)anthracene 6.7
Benzo(a)pyrene 7.5
Benzo(b)fluoranthene 4.9
Dibenzo(a,h)anthracene 0.61
Indeno(1,2,3-cd)pyrene 1.8
B-556 (19'-20')
Benzo(a)anthracene 13
Benzo(a)pyrene 17
Benzo(b)fluoranthene 11
Dibenzo(a,h)anthracene 0.96
Indeno(1,2,3-cd)pyrene 2.8
B-557 (11'-12')
Benzo(a)anthracene 2.3
B-508 (10'-11')
Benzo(a)anthracene 13
Benzo(a)pyrene 13
Benzo(b)fluoranthene 11
Indeno(1,2,3-cd)pyrene 4.3
B-503 (18'-19')
Benzo(a)anthracene 31
Benzo(a)pyrene 82
Benzo(b)fluoranthene 88
Benzo(k)fluoranthene 25
Dibenzo(a,h)anthracene 5.8
Indeno(1,2,3-cd)pyrene 21
B-507 (18'-19')
Benzene 659
Benzo(a)anthracene 260
Benzo(a)pyrene 240
Benzo(b)fluoranthene 170
Benzo(k)fluoranthene 70
Chrysene 240
Indeno(1,2,3-cd)pyrene 64
Naphthalene 4600
B-502 (11'-12')
Benzene 30.3
Benzo(a)anthracene 54
Benzo(a)pyrene 48
Benzo(b)fluoranthene 56
Benzo(k)fluoranthene 17
Dibenzo(a,h)anthracene 5.5
Indeno(1,2,3-cd)pyrene 17
B-506 (16'-17')
Benzene 444
Benzo(a)anthracene 79
Benzo(a)pyrene 92
Benzo(b)fluoranthene 73
Benzo(k)fluoranthene 22
Dibenzo(a,h)anthracene 5.6
Indeno(1,2,3-cd)pyrene 17
Naphthalene 2200
B-501 (14'-15')
Benzene 16.4
Benzo(a)anthracene 67
Benzo(a)pyrene 68
Benzo(b)fluoranthene 72
Benzo(k)fluoranthene 21
Dibenzo(a,h)anthrecene 7.3
Indeno(1,2,3-cd)pyrene 24
B-560 (12'-13')
Benzo(a)anthracene 17
Benzo(a)pyrene 22
Benzo(b)fluoranthene 16
Dibenzo(a,h)anthracene 1.3
Indeno(1,2,3-cd)pyrene 4.4
B-504 (13'-14')
Benzene 15.1
Benzo(a)anthracene 17
Benzo(a)pyrene 16
Benzo(b)fluoranthene 12
Dibenzo(a,h)anthracene 1.4
Indeno(1,2,3-cd)pyrene 4.7
B-504 (20'-21')
Benzene 33.1
Benzo(a)anthracene 59
Benzo(a)pyrene 66
Benzo(b)fluoranthene 50
Benzo(k)fluoranthene 16
Dibenzo(a,h)anthrecene 4.6
Indeno(1,2,3-cd)pyrene 15
B-516 (13'-14')
Benzo(a)anthracene 3.0
Benzo(a)pyrene 3.6
Benzo(b)fluoranthene 2.5
B-505 (10'-11')
Benzo(a)anthracene 7.5
Benzo(b)fluoranthene 5.4
B-514 (16'-17')
Benzene 333
Benzo(a)anthracene 250
Benzo(a)pyrene 290
Benzo(b)fluoranthene 200
Benzo(k)fluoranthene 59
Chrysene 260
Dibenzo(a,h)anthracene 26
Indeno(1,2,3-cd)pyrene 84
Naphthalene 7700
Phenanthrene 2400
B-515 (18'-19')
Benzene 29.3
Benzo(a)anthracene 5.8
Benzo(a)pyrene 6.5
Benzo(b)fluoranthene 4.5
Dibenzo(a,h)anthracene 0.57
Indeno(1,2,3-cd)pyrene 1.9
WASHINGTON STREET
HILL STREET
HILL STREET (VACATED)
5TH STREET
SIXTH STREET
CHURCH STREET
16.5' WIDE PUBLIC ALLEY
EXIST. 1' WIDE 8' TALL CONC. WALL
GATE
FORMER BOOSTER HOUSE
ON-SITE BM 1
ON-SITE BM 2
B-501
B-502
B-503
B-504
B-505
B-506
B-507
B-508
B-509
B-510
B-511
B-512
B-513
B-514
B-515
B-516
B-550
B-551
B-553
B-554
B-556
B-557
B-558
B-559
B-560
B-561
B-562
T.P. 501
T.P. 503
T.P. 504
T.P. 505
T.P. 506
T.P. 507
T.P. 509
T.P. 510
UTB-01
UTB-02
UTB-03
UTB-04
UTB-05
UTB-06
UTB-07
UTB-08A
UTB-08B
UTB-09
UTB-10
UTB-11
UTB-13
UTB-14
UTB-15
UTB-16
UTB-17
UTB-18
UTB-19
UTB-20
UTB-21
UTB-22
UTB-23
UTB-24
UTB-25
UTB-26
UTB-27
UTB-28
CSS-1
CSS-2
CSS-3
CSS-4
CSS-5
LEGEND
HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
FORMER GAS PLANT PIPING
EXISTING STRUCTURES (APPROXIMATE)
CURRENT AMERENIP PROPERTY BOUNDARY
REMEDIATION SITE BOUNDARY
LOT LINE
FENCE
PHASE II BORING
CSI PROBEHOLE
CSI TEST PIT
PHSE II SURFACE SOIL
0 60
FEET
N
SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.
NOTES: 1. Analytical results in milligrams / kilograms (mg/Kg)
2. For complete results refer to Table 5-9 of the SIR.
NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.
NO. REVISION BY APPR. DATE
CLIENT
PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP
SHEET TITLE
CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL INGESTION PATHWAY
GREATER THAN 10' DEPTH
BTEX AND PAHs
DATE 7/15/05
DRAWN BY TMM
DESIGNED BY PTS
CHECKED BY
APPROVED BY
PROJECT NUMBER 62402647
DRAWING NO. FIGURE 6-8
COL. 624\02647A-013



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- FORMER GAS PLANT PIPING
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- LOT LINE
- FENCE
- UTB-02 PHASE II BORING
- B-557 CSI PROBEHOLE
- T.P.509 CSI TEST PIT
- CSS-4 PHSE II SURFACE SOIL

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.

NOTES:
1. Analytical results in milligrams / kilograms (mg/Kg)
2. For complete results refer to Table 5-9 of the SIR.

NO.	REVISION	BY	APPR.	DATE

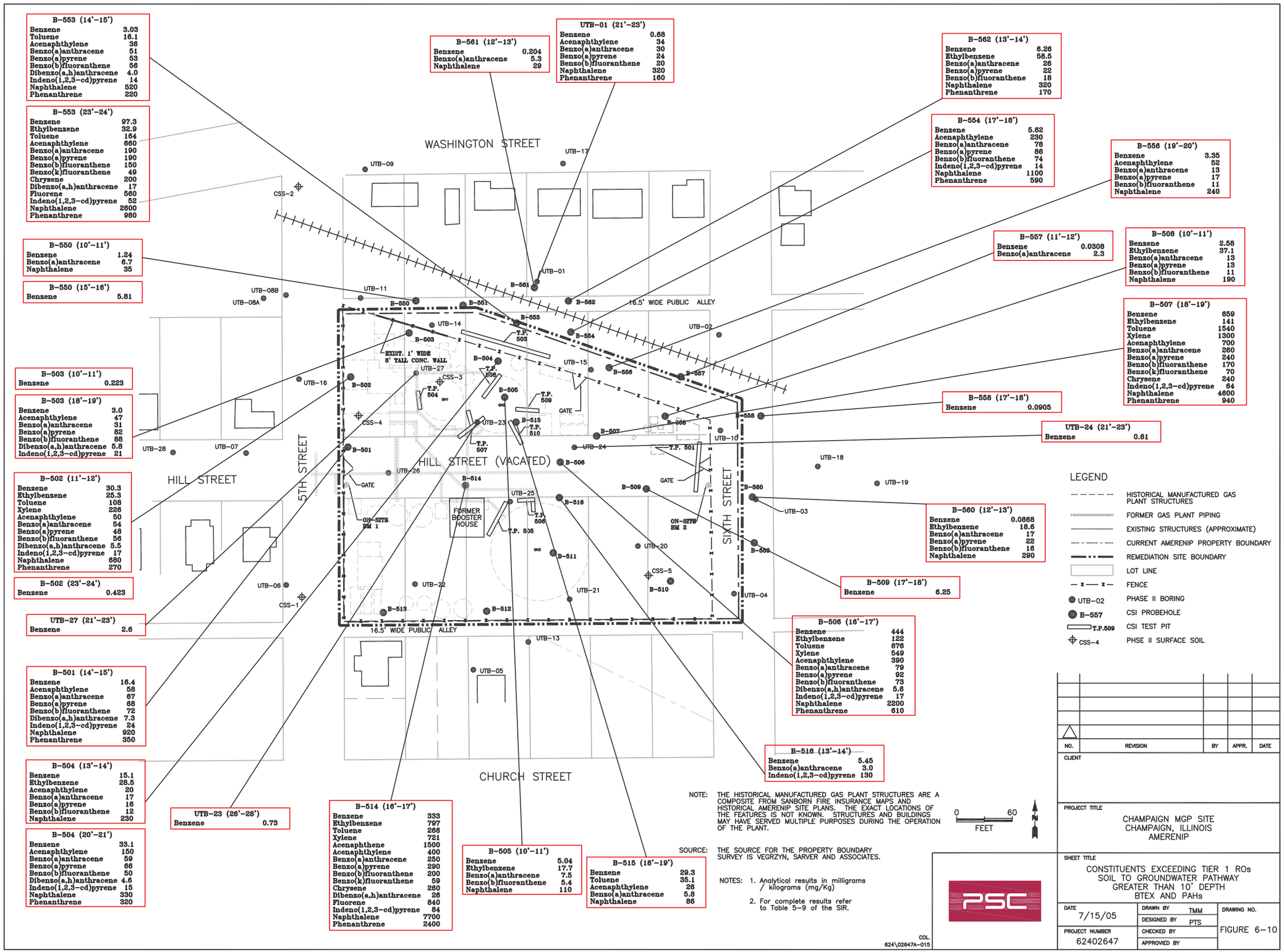
CLIENT

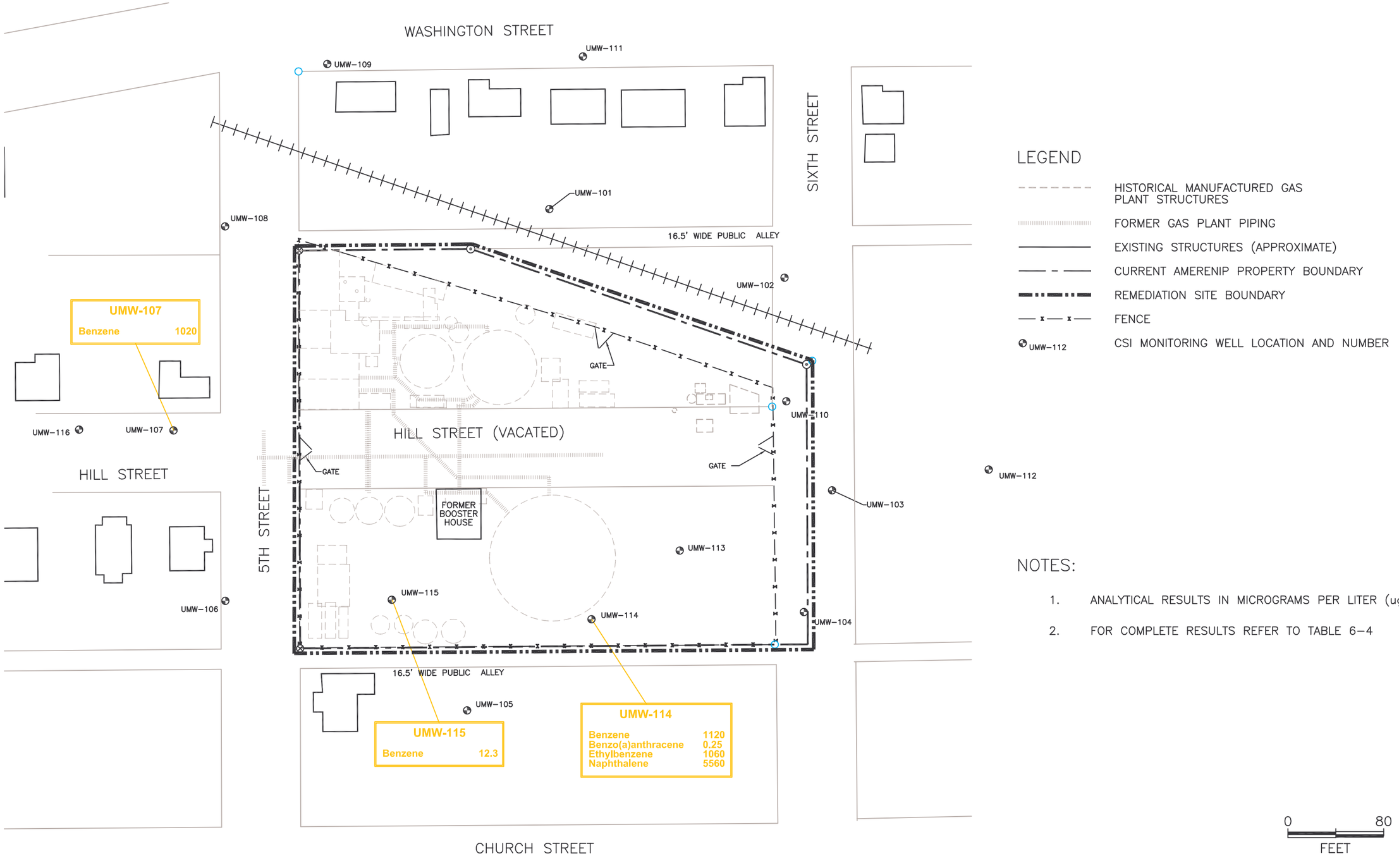
PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

SHEET TITLE
CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL INHALATION PATHWAY
GREATER THAN 10' DEPTH
BTEX AND NAPHTHALENE

DATE 7/15/05	DRAWN BY TMM	DRAWING NO. FIGURE 6-9
	DESIGNED BY PTS	
PROJECT NUMBER 62402647	CHECKED BY	
	APPROVED BY	

COL.
624\02647A-014


WASHINGTON STREET
HILL STREET
HILL STREET (VACATED)
CHURCH STREET
5TH STREET
SIXTH STREET
16.5' WIDE PUBLIC ALLEY
16.5' WIDE PUBLIC ALLEY
EXIST. 1' WIDE 8' TALL CONC. WALL
FORMER BOOSTER HOUSE
ON-SITE BM 1
ON-SITE BM 2
GATE
GATE
GATE
B-553 (14'–15')
Benzene 3.03
Toluene 16.1
Acenaphthylene 36
Benzo(a)anthracene 51
Benzo(a)pyrene 53
Benzo(b)fluoranthene 56
Dibenzo(a,h)anthracene 4.0
Indeno(1,2,3–cd)pyrene 14
Naphthalene 520
Phenanthrene 220
B-553 (23'–24')
Benzene 97.3
Ethylbenzene 32.9
Toluene 164
Acenaphthylene 660
Benzo(a)anthracene 190
Benzo(a)pyrene 190
Benzo(b)fluoranthene 150
Benzo(k)fluoranthene 49
Chrysene 200
Dibenzo(a,h)anthracene 17
Fluorene 560
Indeno(1,2,3–cd)pyrene 52
Naphthalene 2600
Phenanthrene 980
B-550 (10'–11')
Benzene 1.24
Benzo(a)anthracene 6.7
Naphthalene 35
B-550 (15'–16')
Benzene 5.81
B-503 (10'–11')
Benzene 0.223
B-503 (18'–19')
Benzene 3.0
Acenaphthylene 47
Benzo(a)anthracene 31
Benzo(a)pyrene 82
Benzo(b)fluoranthene 88
Dibenzo(a,h)anthracene 5.8
Indeno(1,2,3–cd)pyrene 21
B-502 (11'–12')
Benzene 30.3
Ethylbenzene 25.3
Toluene 108
Xylene 226
Acenaphthylene 50
Benzo(a)anthracene 54
Benzo(a)pyrene 48
Benzo(b)fluoranthene 56
Dibenzo(a,h)anthracene 5.5
Indeno(1,2,3–cd)pyrene 17
Naphthalene 660
Phenanthrene 270
B-502 (23'–24')
Benzene 0.423
UTB-27 (21'–23')
Benzene 2.6
B-501 (14'–15')
Benzene 16.4
Acenaphthylene 58
Benzo(a)anthracene 67
Benzo(a)pyrene 68
Benzo(b)fluoranthene 72
Dibenzo(a,h)anthracene 7.3
Indeno(1,2,3–cd)pyrene 24
Naphthalene 920
Phenanthrene 350
B-504 (13'–14')
Benzene 15.1
Ethylbenzene 28.5
Acenaphthylene 20
Benzo(a)anthracene 17
Benzo(a)pyrene 16
Benzo(b)fluoranthene 12
Naphthalene 230
B-504 (20'–21')
Benzene 33.1
Acenaphthylene 150
Benzo(a)anthracene 59
Benzo(a)pyrene 66
Benzo(b)fluoranthene 50
Dibenzo(a,h)anthracene 4.6
Indeno(1,2,3–cd)pyrene 15
Naphthalene 330
Phenanthrene 320
UTB-23 (26'–28')
Benzene 0.73
B-514 (16'–17')
Benzene 333
Ethylbenzene 797
Toluene 266
Xylene 721
Acenaphthene 1500
Acenaphthylene 400
Benzo(a)anthracene 250
Benzo(a)pyrene 290
Benzo(b)fluoranthene 200
Benzo(k)fluoranthene 59
Chrysene 260
Dibenzo(a,h)anthracene 26
Fluorene 840
Indeno(1,2,3–cd)pyrene 84
Naphthalene 7700
Phenanthrene 2400
B-505 (10'–11')
Benzene 5.04
Ethylbenzene 17.7
Benzo(a)anthracene 7.5
Benzo(b)fluoranthene 5.4
Naphthalene 110
B-515 (18'–19')
Benzene 29.3
Toluene 35.1
Acenaphthylene 26
Benzo(a)anthracene 5.8
Naphthalene 86
B-516 (13'–14')
Benzene 5.45
Benzo(a)anthracene 3.0
Indeno(1,2,3–cd)pyrene 130
B-506 (16'–17')
Benzene 444
Ethylbenzene 122
Toluene 676
Xylene 549
Acenaphthylene 390
Benzo(a)anthracene 79
Benzo(a)pyrene 92
Benzo(b)fluoranthene 73
Dibenzo(a,h)anthracene 5.6
Indeno(1,2,3–cd)pyrene 17
Naphthalene 2200
Phenanthrene 610
B-509 (17'–18')
Benzene 6.25
B-560 (12'–13')
Benzene 0.0868
Ethylbenzene 16.6
Benzo(a)anthracene 17
Benzo(a)pyrene 22
Benzo(b)fluoranthene 16
Naphthalene 290
UTB-24 (21'–23')
Benzene 0.61
B-558 (17'–18')
Benzene 0.0905
B-557 (11'–12')
Benzene 0.0308
Benzo(a)anthracene 2.3
B-554 (17'–18')
Benzene 5.62
Acenaphthylene 230
Benzo(a)anthracene 78
Benzo(a)pyrene 86
Benzo(b)fluoranthene 74
Indeno(1,2,3–cd)pyrene 14
Naphthalene 1100
Phenanthrene 590
B-562 (13'–14')
Benzene 6.26
Ethylbenzene 58.5
Benzo(a)anthracene 26
Benzo(a)pyrene 22
Benzo(b)fluoranthene 18
Naphthalene 320
Phenanthrene 170
B-561 (12'–13')
Benzene 0.204
Benzo(a)anthracene 5.3
Naphthalene 29
UTB-01 (21'–23')
Benzene 0.68
Acenaphthylene 34
Benzo(a)anthracene 30
Benzo(a)pyrene 24
Benzo(b)fluoranthene 20
Naphthalene 320
Phenanthrene 160
B-556 (19'–20')
Benzene 3.35
Acenaphthylene 52
Benzo(a)anthracene 13
Benzo(a)pyrene 17
Benzo(b)fluoranthene 11
Naphthalene 240
B-508 (10'–11')
Benzene 2.58
Ethylbenzene 37.1
Benzo(a)anthracene 13
Benzo(a)pyrene 13
Benzo(b)fluoranthene 11
Naphthalene 190
B-507 (18'–19')
Benzene 859
Ethylbenzene 141
Toluene 1540
Xylene 1300
Acenaphthylene 700
Benzo(a)anthracene 260
Benzo(a)pyrene 240
Benzo(b)fluoranthene 170
Benzo(k)fluoranthene 70
Chrysene 240
Indeno(1,2,3–cd)pyrene 64
Naphthalene 4600
Phenanthrene 940
UTB-09
UTB-17
UTB-01
UTB-08B
UTB-08A
UTB-11
UTB-14
UTB-02
UTB-15
UTB-16
UTB-27
UTB-23
UTB-10
UTB-28
UTB-07
UTB-24
UTB-18
UTB-19
UTB-26
UTB-25
UTB-03
UTB-20
UTB-06
UTB-22
UTB-21
UTB-04
UTB-13
UTB-05
CSS-1
CSS-2
CSS-3
CSS-4
CSS-5
B-501
B-502
B-503
B-504
B-505
B-506
B-507
B-508
B-509
B-510
B-511
B-512
B-513
B-514
B-515
B-516
B-550
B-551
B-553
B-554
B-556
B-557
B-558
B-560
B-561
B-562
T.P. 501
T.P. 503
T.P. 504
T.P. 505
T.P. 506
T.P. 507
T.P. 508
T.P. 509
LEGEND
HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
FORMER GAS PLANT PIPING
EXISTING STRUCTURES (APPROXIMATE)
CURRENT AMERENIP PROPERTY BOUNDARY
REMEDIATION SITE BOUNDARY
LOT LINE
FENCE
UTB-02 PHASE II BORING
B-557 CSI PROBEHOLE
T.P.509 CSI TEST PIT
CSS-4 PHSE II SURFACE SOIL
NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.
SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRZYN, SARVER AND ASSOCIATES.
NOTES: 1. Analytical results in milligrams / kilograms (mg/Kg)
2. For complete results refer to Table 5-9 of the SIR.
0 60 FEET
N
COL. 624\02647A-015
NO. REVISION BY APPR. DATE
CLIENT
PROJECT TITLE
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP
SHEET TITLE
CONSTITUENTS EXCEEDING TIER 1 ROs
SOIL TO GROUNDWATER PATHWAY
GREATER THAN 10' DEPTH
BTEX AND PAHs
DATE 7/15/05
DRAWN BY TMM
DESIGNED BY PTS
CHECKED BY
APPROVED BY
PROJECT NUMBER 62402647
DRAWING NO. FIGURE 6–10



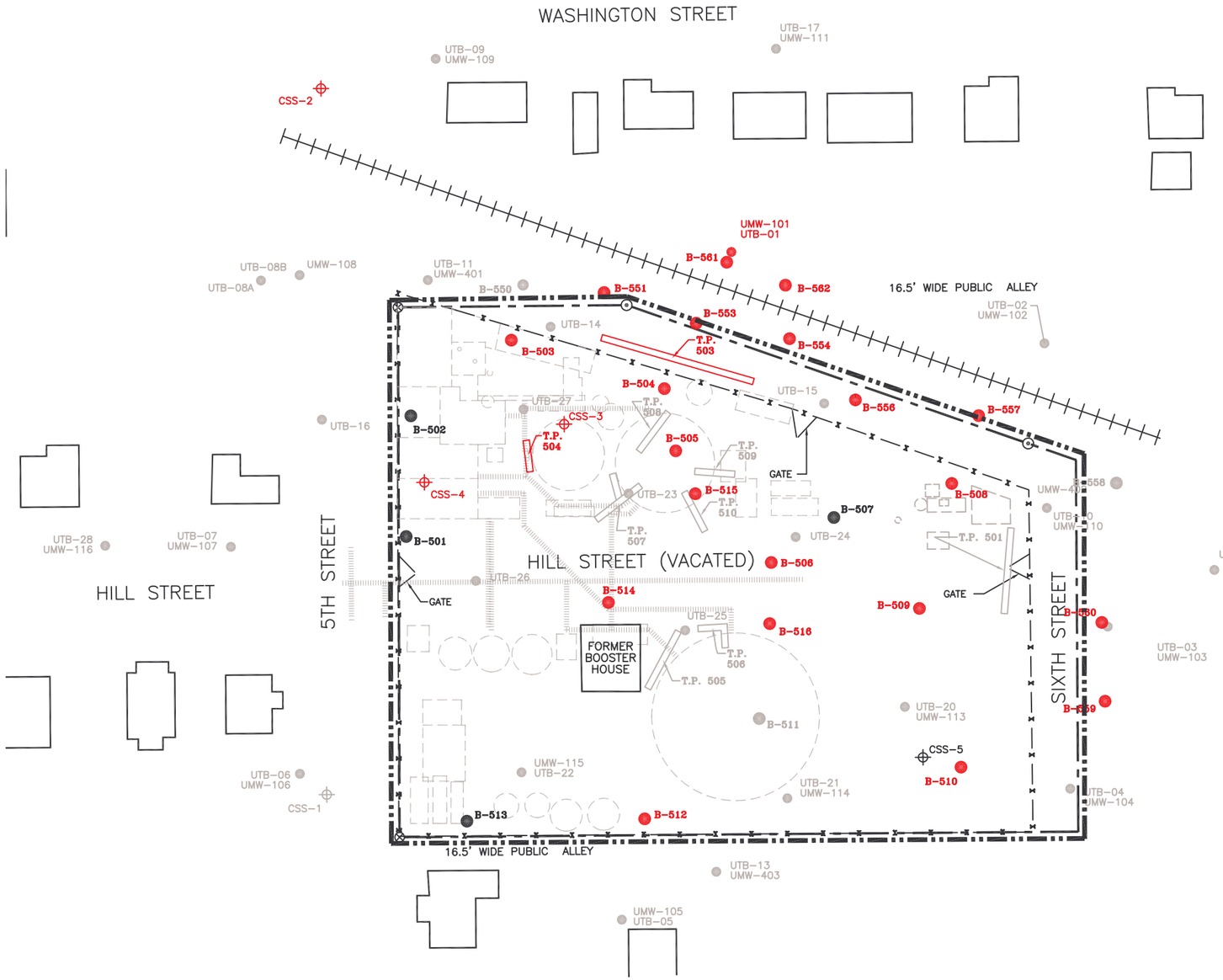
COL. J:\624\02647B-031

PSC

TITLE:

GROUNDWATER INGESTION PATHWAY
ABOVE TIER 1 REMEDIAL OBJECTIVES (2007 CSI)

DWN: TMM	DES: PTS	PROJECT NO: 62402647 AMERENIP CHAMPAIGN, ILLINOIS	
CHKD:	APPD:		
DATE: 12/14/07	REV:	FIGURE 6–11	



LEGEND

- B-557 — NO EXCEEDANCE
- B-557 — EXCEEDANCE AT LEAST 1 PATHWAY
- B-557 — NO DATA
- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: The source for the property boundary survey is Vegrzyn, Sarver and Associates.

0 80
FEET

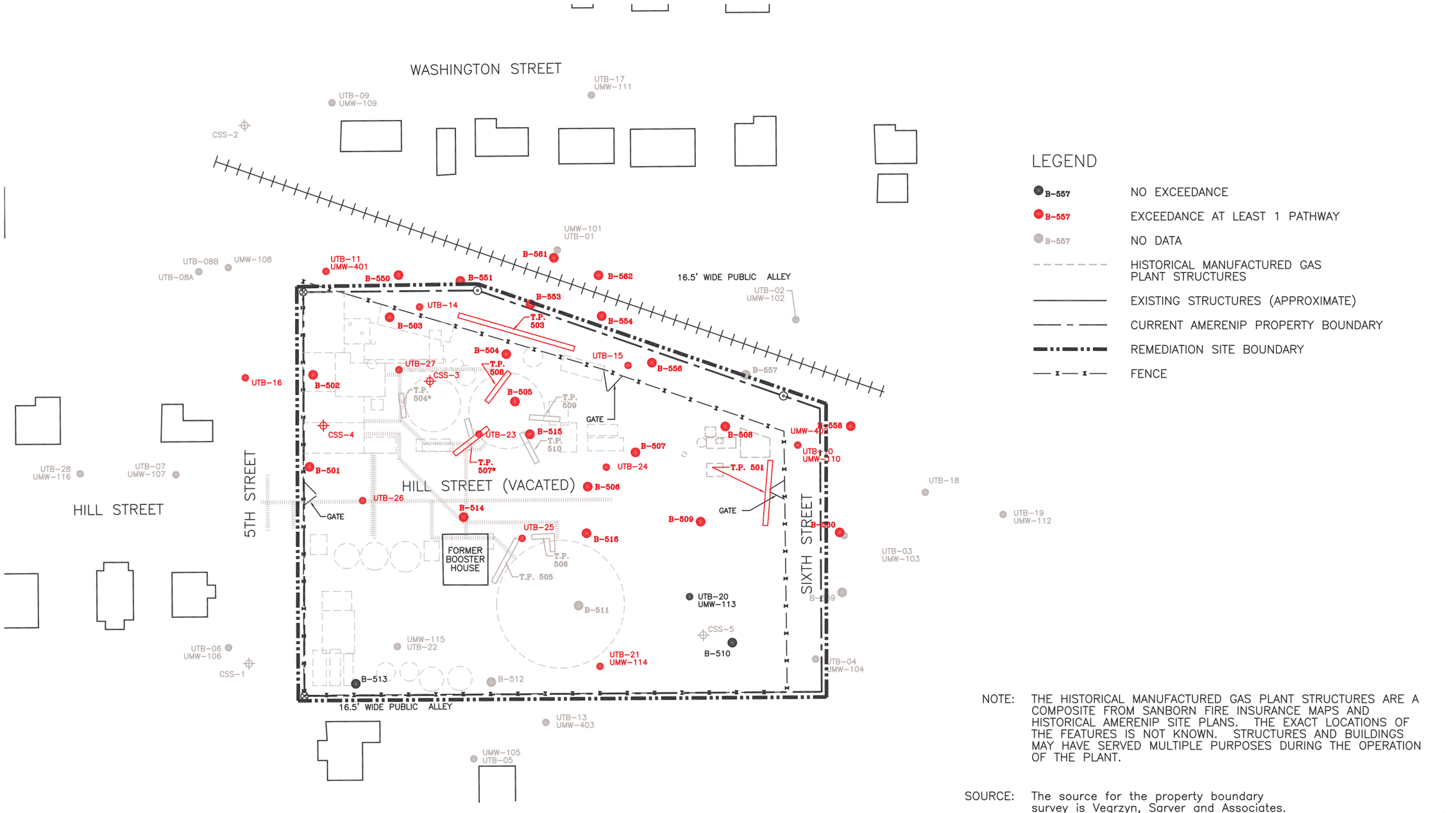
N

COL. J:\624\02647C-033

PSC

TITLE:
EXCEEDANCE OF TIER 1 REMEDIATION OBJECTIVES FOR SOIL
BTEX AND PAH COMPOUNDS
0-3 FOOT DEPTH INTERVAL

DWN:	DES:	PROJECT NO: 62402647
TMM	JG	AMERENIP CHAMPAIGN, ILLINOIS
CHKD:	APPD:	
DATE: 10/07/08	REV:	FIGURE 7-1



LEGEND

- B-557 — NO EXCEEDANCE
- B-557 — EXCEEDANCE AT LEAST 1 PATHWAY
- B-557 — NO DATA
- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: The source for the property boundary survey is Vegrzyn, Sarver and Associates.

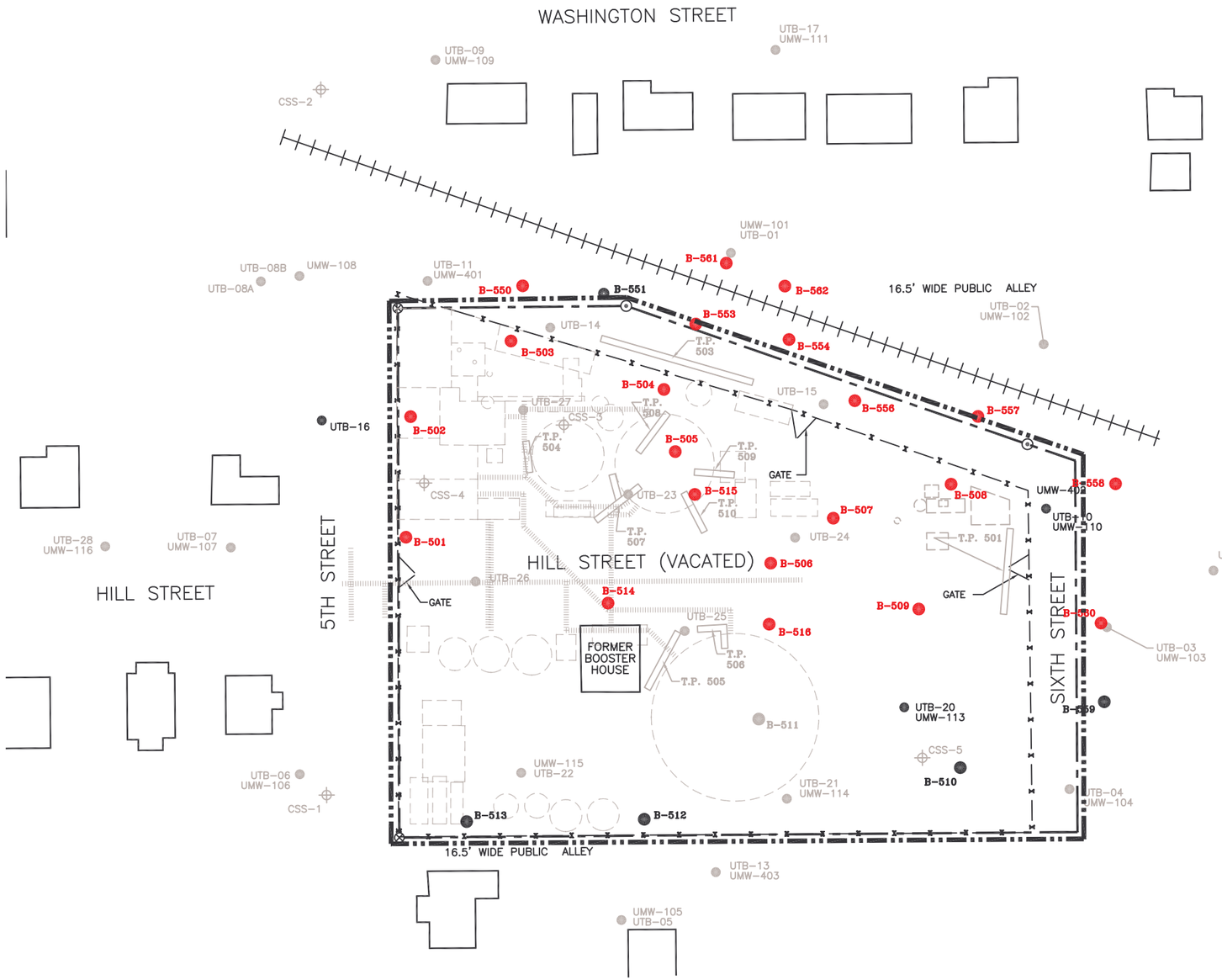
0 80
FEET

COL J:\624\026647C-034

PSC

TITLE:
EXCEEDANCE OF TIER 1 REMEDIATION OBJECTIVES FOR SOIL
BTEX AND PAH COMPOUNDS
3-10 FOOT DEPTH INTERVAL

DWN: TMM	DES: JG	PROJECT NO: 62402647
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS
DATE: 10/07/08	REV:	FIGURE 7-2



LEGEND

- B-557 — NO EXCEEDANCE
- B-557 — EXCEEDANCE AT LEAST 1 PATHWAY
- B-557 — NO DATA
- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: The source for the property boundary survey is Vegrzyn, Sarver and Associates.

0 80
FEET

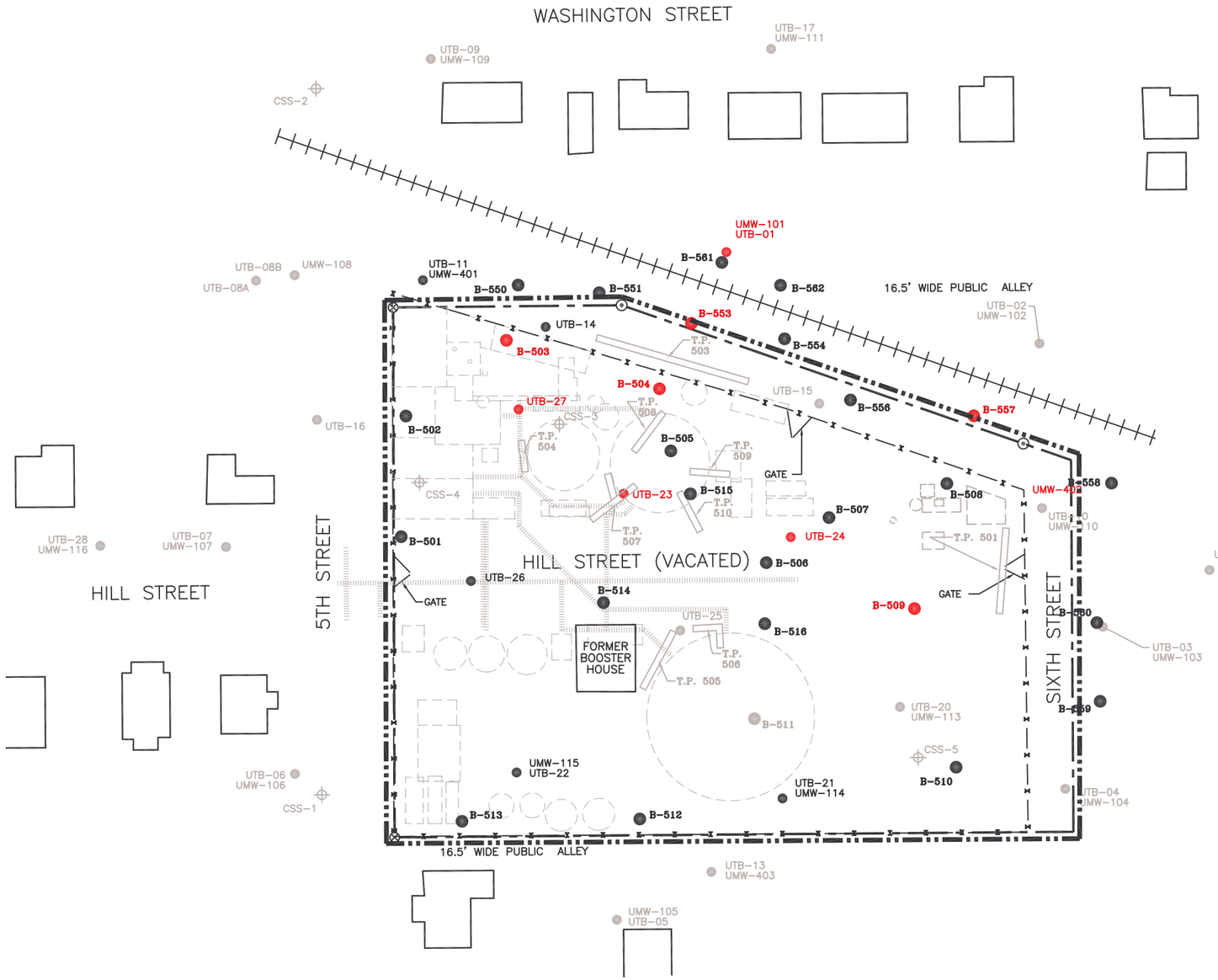
N

COL. J:\624\02647A-035

PSC

TITLE:
EXCEEDANCE OF TIER 1 REMEDIATION OBJECTIVES FOR SOIL
BTEX AND PAH COMPOUNDS
10-20 FOOT DEPTH INTERVAL

DWN:	DES:	PROJECT NO: 62402647
TMM	JG	AMERENIP
CHKD:	APPD:	CHAMPAIGN, ILLINOIS
DATE: 12/14/07	REV:	FIGURE 7-3



LEGEND

- B-557 — NO EXCEEDANCE
- B-557 — EXCEEDANCE AT LEAST 1 PATHWAY
- B-557 — NO DATA
- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES
- EXISTING STRUCTURES (APPROXIMATE)
- CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- FENCE

NOTE: THE HISTORICAL MANUFACTURED GAS PLANT STRUCTURES ARE A COMPOSITE FROM SANBORN FIRE INSURANCE MAPS AND HISTORICAL AMERENIP SITE PLANS. THE EXACT LOCATIONS OF THE FEATURES IS NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

SOURCE: The source for the property boundary survey is Vegrzyn, Sarver and Associates.

0 80
FEET

N

COL. J:\624\02647A-036

PSC

TITLE:
EXCEEDANCE OF TIER 1 REMEDIATION OBJECTIVES FOR SOIL
BTEX AND PAH COMPOUNDS
GREATER THAN 20 FEET

DWN:	DES:	PROJECT NO: 62402647
TMM	JG	AMERENIP CHAMPAIGN, ILLINOIS
CHKD:	APPD:	
DATE: 12/14/07	REV:	FIGURE 7-4

WEST

A

EAST

A'

ELEVATION

740

730

720

710

700

UTB-08A

UTB-08B
UMW-108

UTB-11
UMW-401

B-550

B-551

B-553

B-554

RAIL ROAD

UTB-02
UMW-102

FILL

SILTY CLAY

SAND

TD=14'

TD=24'

TD=175'

TD=28'

TD=32'

TD=32'

TD=26.5'

LEGEND

ANALYTICAL SAMPLE INTERVAL

MONITORED INTERVAL

3.3 PID READING, ppm

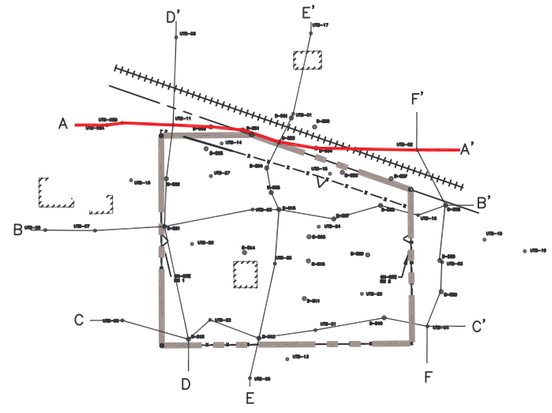
GROUNDWATER LEVEL (7/26/04)

10 FOOT DEPTH

IMPACTED SOIL

NO TIER 1 EXCEEDANCE (SOIL)

TIER 1 EXCEEDANCE (SOIL)



HORIZONTAL SCALE IN FEET

0 60

0 6

VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section AA - 005

PSC

TITLE:

WEST-EAST CROSS SECTION A-A'

EXTENT OF IMPACTS

DWN: TMM	DES: PTS	PROJECT NO: 62402647	
CHKD: JG	APPD:	AMEREN IP CHAMPAIGN, ILLINOIS	
DATE: 6/1/06	REV: 0	FIGURE 7-5	

WEST

B

EAST

B'

ELEVATION

740

730

720

710

700

UTB-28
UMW-116

UTB-07
UMW-107

5th STREET

PROPERTY LINE (FENCE)
B-501

UTB-23

HOLDER GH-2

B-515

B-507

B-508

PROPERTY LINE (FENCE)
UTB-10

B-558

FILL

SILTY CLAY

TD=20'

TD=20'

TD=24'

TD=28'

TD=32'

TD=28'

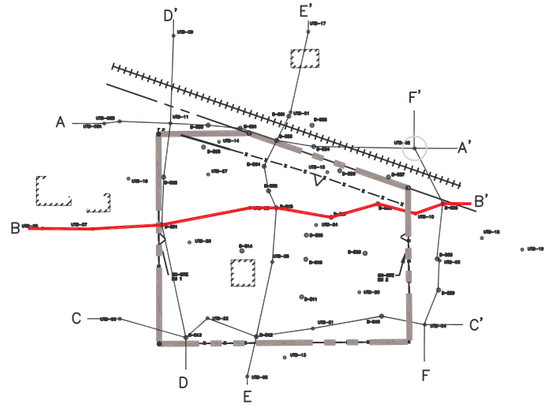
TD=28'

TD=22'

TD=28'

LEGEND

- ANALYTICAL SAMPLE INTERVAL
- MONITORED INTERVAL
- 3.3 PID READING, ppm
- GROUNDWATER LEVEL (7/26/04)
- 10 FOOT DEPTH
- IMPACTED SOIL
- NO TIER 1 EXCEEDANCE (SOIL)
- TIER 1 EXCEEDANCE (SOIL)



HORIZONTAL SCALE IN FEET
0 60
0 6
VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section CC - 003

PSC

TITLE:
WEST-EAST CROSS SECTION B-B'
EXTENT OF IMPACTS

DWN: TMM	DES: PTS
CHKD: JG	APPD:
DATE: 7/21/05	REV: 0

PROJECT NO: 62402647
AMERENIP
CHAMPAIGN, ILLINOIS

FIGURE 7-6

WEST
C

EAST
C'

ELEVATION

740

730

720

710

700

UTB-06
UMW-106

PROPERTY LINE (FENCE)

ABOVE GROUND OIL TANKS

B-513

UTB-22
UMW-115

OIL TANKS

B-512

UTB-21
UMW-114

B-510

PROPERTY LINE (FENCE)

UTB-04
UMW-104

FILL

SILTY CLAY

TD=24'

TD=24'

TD=23'

TD=24'

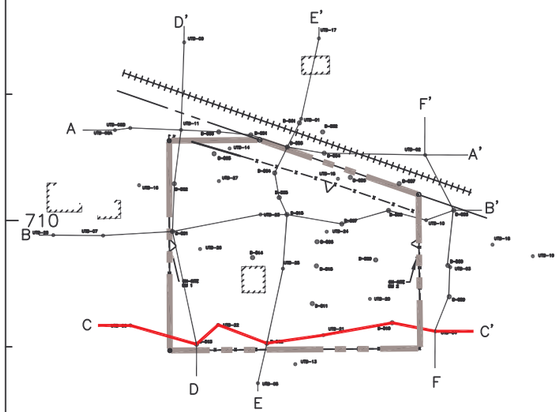
TD=23'

TD=28'

TD=23.5'

LEGEND

- ANALYTICAL SAMPLE INTERVAL
- MONITORED INTERVAL
- 3.3 PID READING, ppm
- GROUNDWATER LEVEL (7/26/04)
- 10 FOOT DEPTH
- IMPACTED SOIL
- NO TIER 1 EXCEEDANCE (SOIL)
- TIER 1 EXCEEDANCE (SOIL)



HORIZONTAL SCALE IN FEET
0 60
0 6
VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section EE - 005

PSC

TITLE:
WEST-EAST CROSS SECTION C-C'
EXTENT OF IMPACTS

DWN: TMM	DES: PTS
CHKD: JG	APPD:
DATE: 6/1/06	REV: 0

PROJECT NO: 62402647
AMERENIP
CHAMPAIGN, ILLINOIS

FIGURE 7-7

SOUTH

D

NORTH

D'

ELEVATION

740

730

720

710

700

PROPERTY LINE (FENCE)

B-513

OIL TANKS

B-501

MGP BUILDING

B-502

MGP BUILDING

PROPERTY LINE (FENCE)

UTB-11
UMW-401

RAILROAD

UTB-09
UMW-109

FILL

SILTY CLAY

SILTY CLAY

FILL

SAND

TD=24'

TD=24'

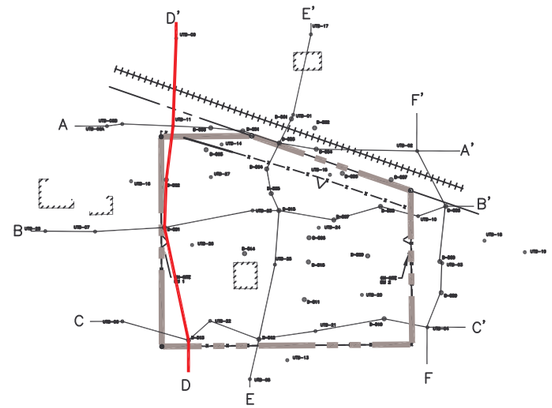
TD=24'

TD=175'

TD=20'

LEGEND

- ANALYTICAL SAMPLE INTERVAL
- MONITORED INTERVAL
- 3.3 PID READING, ppm
- GROUNDWATER LEVEL (7/26/04)
- 10 FOOT DEPTH
- IMPACTED SOIL
- NO TIER 1 EXCEEDANCE (SOIL)
- TIER 1 EXCEEDANCE (SOIL)



HORIZONTAL SCALE IN FEET

0 60

0 6

VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section FF - 005

PSC

TITLE:

SOUTH-NORTH CROSS SECTION D-D'

EXTENT OF IMPACTS

DWN: TMM	DES: PTS	PROJECT NO: 62402647	
CHKD: JG	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 6/1/06	REV: 0	FIGURE 7-8	

SOUTH

NORTH

E

E'

ELEVATION

740

730

720

710

700

UTB-05
UMW-105

PROPERTY LINE (FENCE)

B-512

HOLDER GH-3

UTB-25

B-515

B-505

B-504

FENCE LINE

PROPERTY LINE (FENCE)

B-553

RAIL ROAD

B-561

UTB-01

HOUSE

UTB-17
UMW-111

FILL

SILTY CLAY

FILL

SILTY CLAY

TD=20'

TD=24'

TD=28'

TD=28'

TD=28'

TD=32'

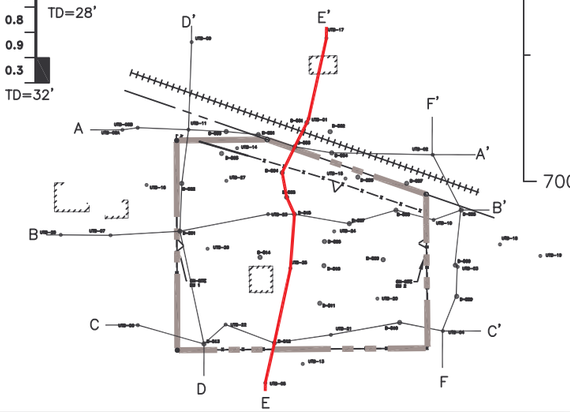
TD=32'

TD=28'

TD=22'

LEGEND

- ANALYTICAL SAMPLE INTERVAL
- MONITORED INTERVAL
- 3.3 PID READING, ppm
- GROUNDWATER LEVEL (7/26/04)
- 10 FOOT DEPTH
- IMPACTED SOIL
- NO TIER 1 EXCEEDANCE (SOIL)
- TIER 1 EXCEEDANCE (SOIL)



HORIZONTAL SCALE IN FEET
0 60
0 6
VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section HH - 005

PSC

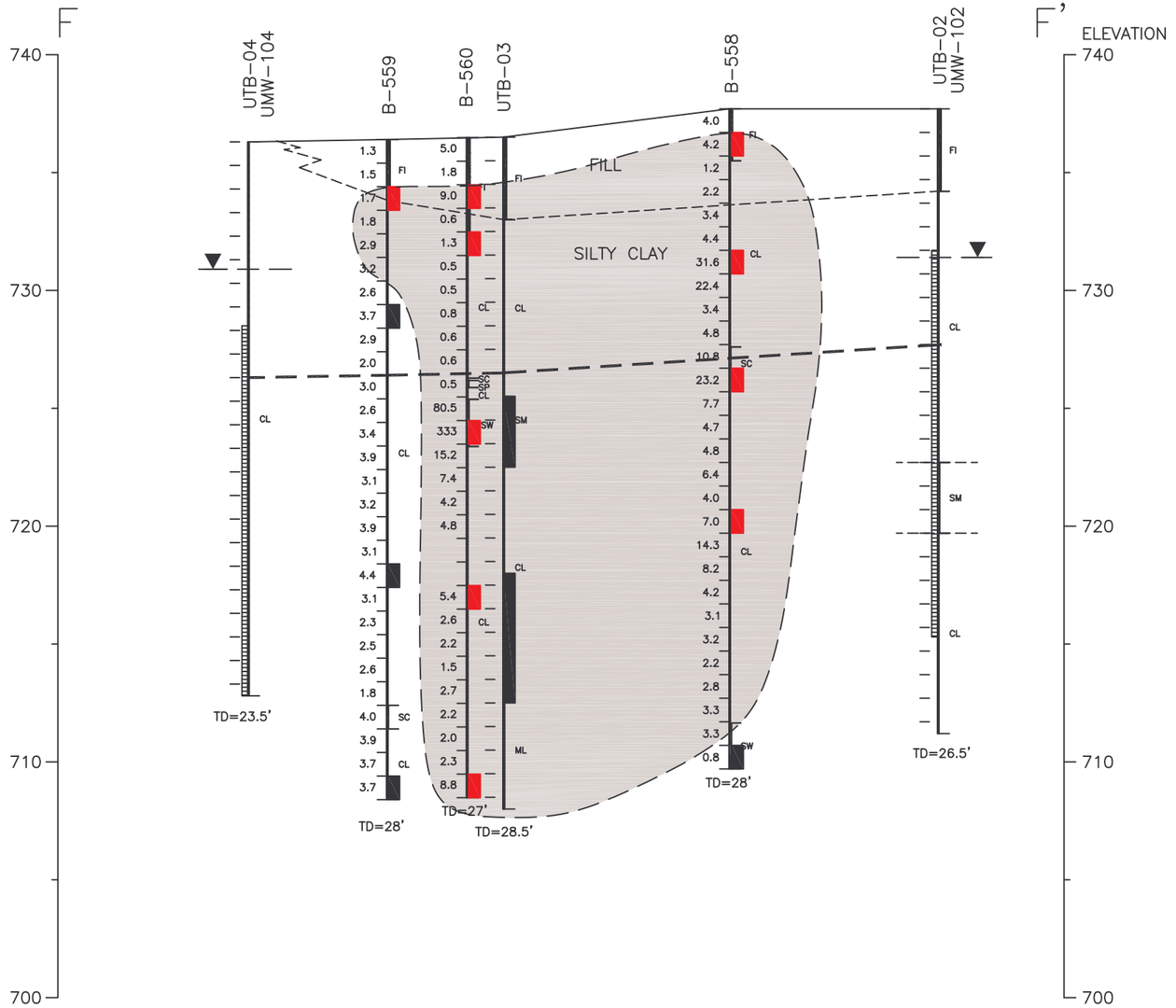
TITLE:

SOUTH-NORTH CROSS SECTION E-E'
EXTENT OF IMPACTS

DWN: TMM	DES: PTS	PROJECT NO: 62402647	
CHKD: JG	APPD:	AMERENIP CHAMPAIGN, ILLINOIS	
DATE: 6/1/06	REV: 0	FIGURE 7-9	

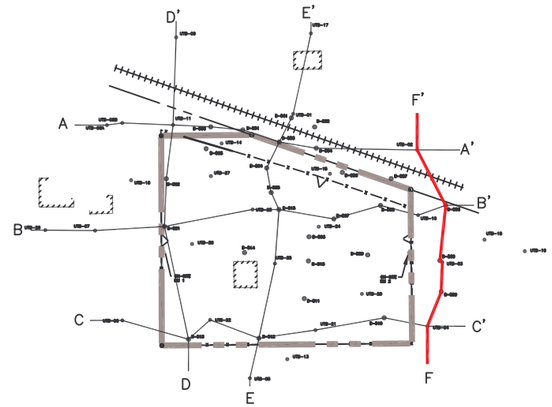
SOUTH

NORTH



LEGEND

- ANALYTICAL SAMPLE INTERVAL
- MONITORED INTERVAL
- 3.3 PID READING, ppm
- GROUNDWATER LEVEL (7/26/04)
- 10 FOOT DEPTH
- IMPACTED SOIL
- NO TIER 1 EXCEEDANCE (SOIL)
- TIER 1 EXCEEDANCE (SOIL)



HORIZONTAL SCALE IN FEET
0 60
0 6
VERTICAL SCALE IN FEET

COL2 IP-CHAMPAIGN\GEO\SECTIONS\Section LL - 005

TITLE:
SOUTH-NORTH CROSS SECTION F-F'
EXTENT OF IMPACTS

DWN: TMM	DES: PTS	PROJECT NO: 62402647 AMERENIP CHAMPAIGN, ILLINOIS
CHKD: JG	APPD:	
DATE: 6/1/06	REV: 0	FIGURE 7-10

APPENDIX A

Sanborn Fire Insurance Maps

CHAMPAIGN, ILL. ILL...005

29

32

27

29

E. WASHINGTON

E. HILL

E. CHURCH

N. 6TH ST.

28

30

31

ILLINOIS POWER CO.
CHAMPAIGN DIVN.- GAS PLANT

R-SUBDIV'N.

COAL YARD

GAS PURIFIERS

GAS PURIFIER

No 1 TAR WELL

No 2 GASOMETER 100,000 Cu. Ft.

No 3 95' GASOMETER

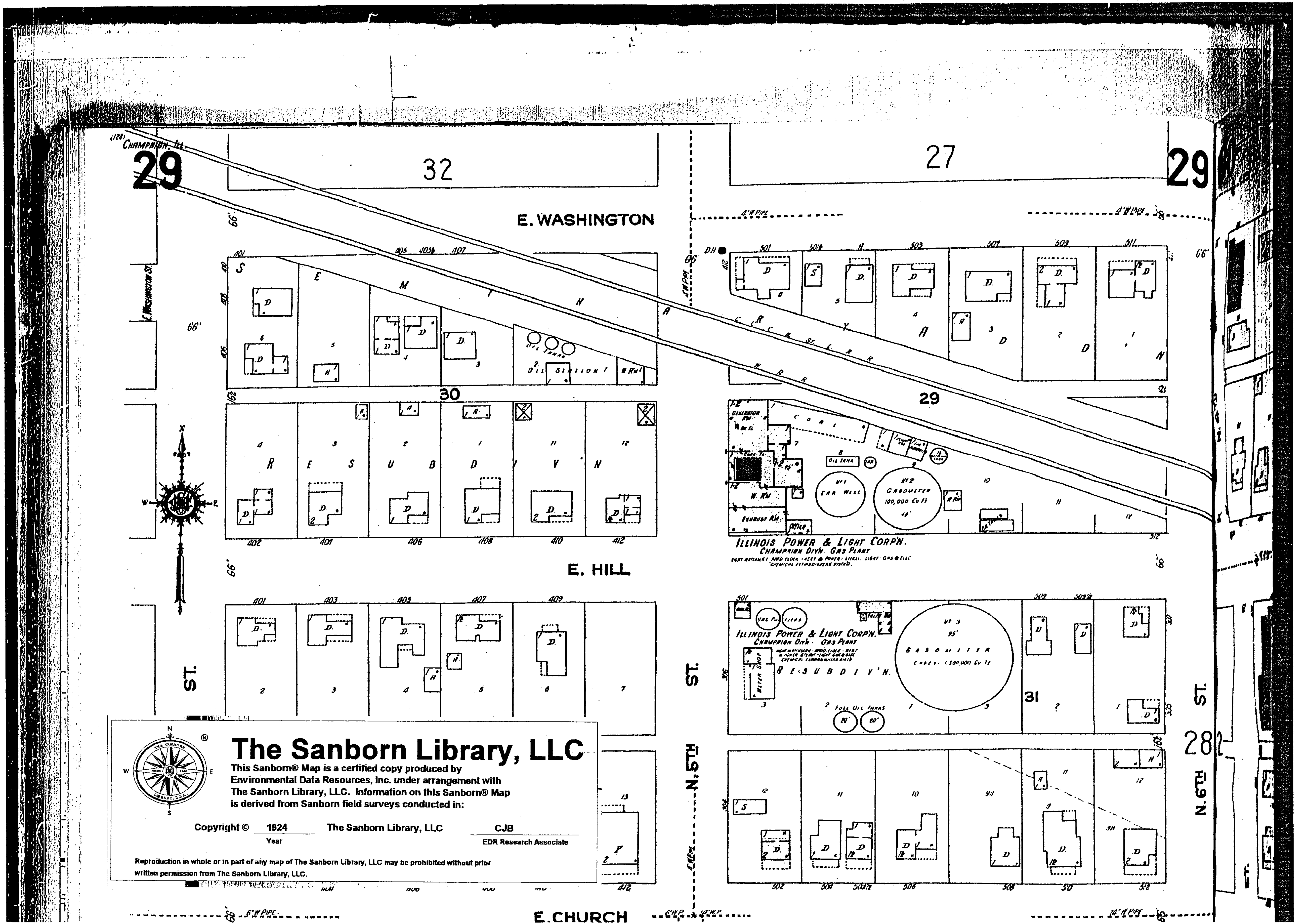
TOOL SHOP

OFFICE

CALVARY SPIRITUAL CHURCH (TILE)

BULK OIL STATION

JUNK

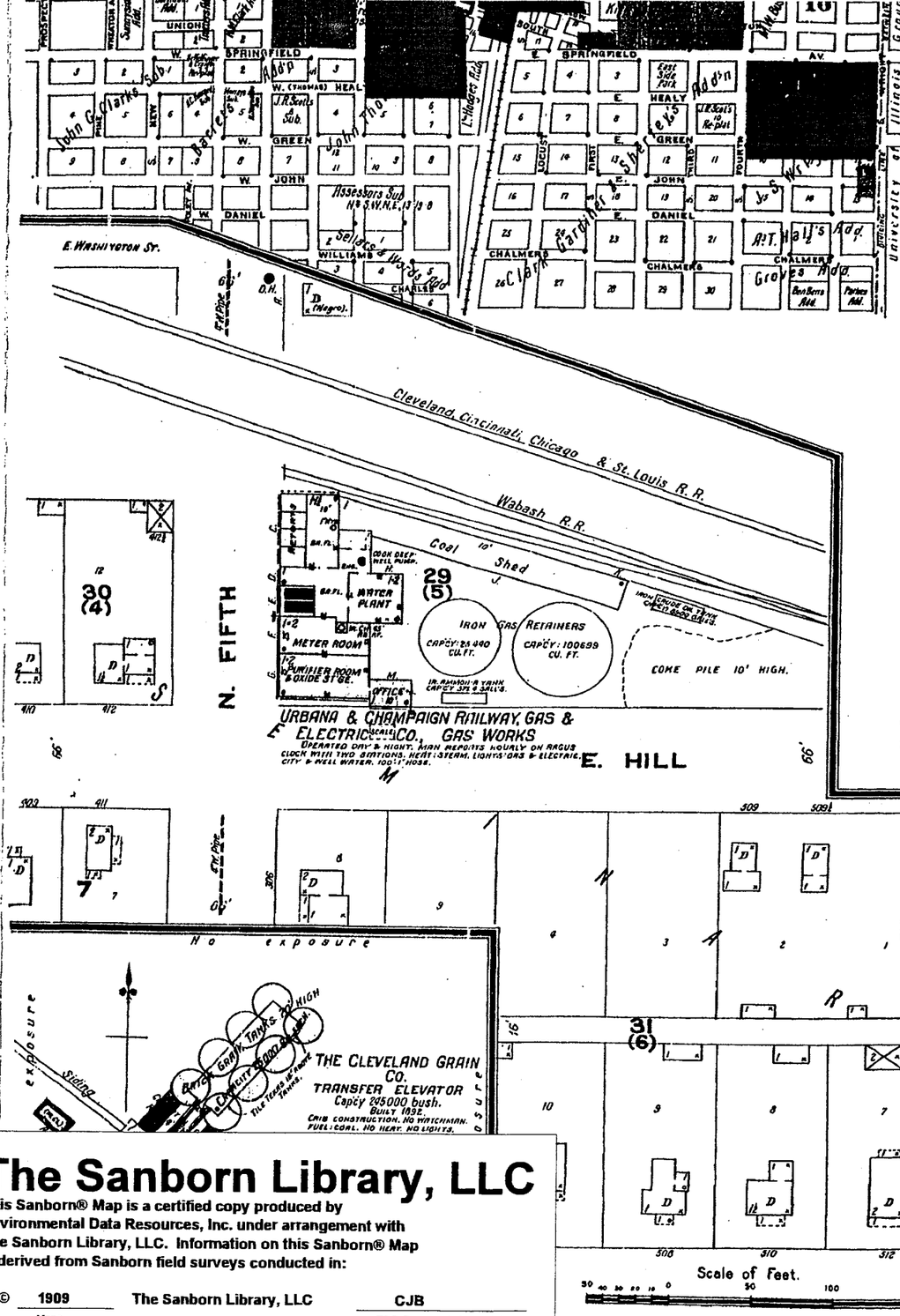


tan compound duplex pump, 10×16×10; capacity: 1½ million gallons per 24 hours. One Gould triplex pump, 9×12; capacity: 1½ million gallons per 24 hours. One Holly-Dunn-Gordon pump, 15×24×10×16, capacity, 2½ million gallons per 24 hours drawing from reservoirs and supplying mains in both Urbana & Champaign. Average daily consumption: 1½ million gallons. Domestic Pressure: 40 lbs. Fire pressure: 80 to 90 lbs. 19 miles of 4" to 10" mains, laid at different intervals since 1885. 19 double hydrants. Nine public cisterns, average capacity 12,000 gallons each, distributed as shown on detail sheets. This system also supplies 16 miles of 4" to 10" mains and 122 double hydrants in Urbana, Ill.

Fire Department

22 members. 4 fully paid and 18 call men partly paid; all employed in the immediate neighborhood of fire house. Eleven men sleep at engine house at night. One 2-horse hose wagon. One 2-horse chemical engine with two 60 gallon tanks. One 2-horse Cole 3rd class steamer in reserve. One 2-horse hose reel in reserve. One 2-horse hook & ladder truck, with 165 ft. ladder. 2500 ft. cotton jacket hose on reel and wagon. 1000 ft. hose in reserve. Six horses. Seven hand chemical extinguishers on hose carts. Fire alarm by telephone and Bell. Electric alarm direct to water works for fire pressure.

Public lights: electric (arc). Streets paved with brick. Grades light.



STREETS.

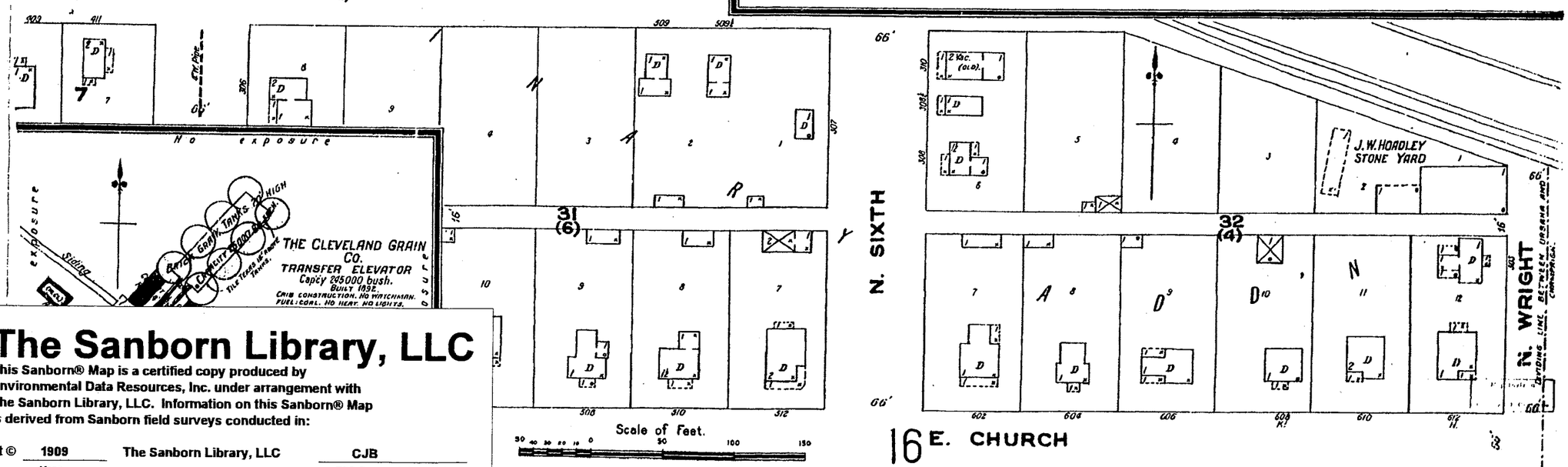
		SHEET
B		
Bailey		13
Beardsley, E.		3
" W.		12
C		
Champaign	401-403	*4
"	405-409	*3
"	410-415	3
Chestnut, N.	12 &	14
" S.		13
Church, E.	100-117	14
" "	200-404	13
" "	405-416	*16
" "	406-414	*1
" W.	100-214	*6
" "	101-216	*10
" "	200-502	*6
" "	501-511	*7
" "	500-617	7
Clark, E.	100-112	*14
" "	107-316	*15
" "	200-314	*15
" "	400-610	*16
" "	401-609	*18
" W.	100-216	10
" "	300-415	9
" "	500-616	*7
" "	501-701	*8
Columbia Av., E.	1-110	4
" W.	100-216	5
" "	300-505	6
E		
Elm, N.	101-215	*7
" "	300-605	6
" S.	100-316	*9
" "	101-107	*7
" "	201-321	*8
Eureka, E.		3
F		
Fifth, N.	100-215	16
" "	305-411	1
" S.	100-109	16
" "	200-411	18
" "	500-703	19
First, N.	100-309	14
" S.	100-115	14
" n'r Spr'gfield Av.		7
" South,	1-45	*12
" "	2-64	*13
" "	47-62	*14
Fourth, N.	100-305	15
" S.	100-106	*16
" "	101-107	*15
" "	200-410	*18
" "	201-411	*17
" "	500-702	*19
Fremont		12
G		
Green, E.	400-611	19
H		
Healey, E.	400-611	19
" W.	100-215	11
Hickory	1-22	12
"	23-54	4
"	100-117	3
"	500-611	3
Hill, E.	405-510	1
" W.	100-215	5
" "	300-503	6
J		
John, E.		13
Johnson Ave.	300-315	11
L		
Locust	1-28	13
Lynn, N.	100-215	*7
" "	301-305	*7
" S.	100-107	7
" "	200-321	8
M		
Main	1-60	12
"	61-84	14
Maple	100-303	2
Market, N.	1-70	12
" "	100-115	4
" "	500-610	3
" S.	1-30	13
N		
Nell, N.	1-53	*10
" "	2-16	*12
" "	18-88	*12
" "	55-77	*6
" "	401-605	*5
" "	500-704	1
" "	505-733	*3
" "	706-740	*3
" near Beardsley		12
" S.	100-214	*18
" "	101-203	*10
" "	205-215	*11
" "	300-503	11
New, S.		8
O		
Oak, N.	1-40	14
" S.	1-40	13
" "	7-40	13
P		
Park, E.	100-116	14
" "	300-405	15
" "	403-616	16
" W.	100-215	10
" "	500 617	7
Prairie, N.	300-503	6
" S.	100-319	9
R		
Randolph, N.	100-216	10
" "	300-605	15
" "	606-729	2
" S.	100-205	10
" "	206-503	11
S		
Second, N.	100-306	*15
" "	101-305	*14
" S.	100-110	*15
Second, S.	101-111	*14
" "	200 411	17
" South,	1-40	18
Sixth, N.	100-216	5
" S.	300-811	1
" "	100-109	16
" "	200-411	18
" "	500-703	19
Springfield Av., E.	90-108	*7
" "	*1081-314	*17
" "	400-612	*18
" "	401-611	*19
" W.	100-215	11
" "	500-702	*8
State, N.	100-215	10
" "	300-504	*5
" S.	301-503	*6
" "	505-730	2
" "	100-204	*10
" "	101-315	*9
" "	206-502	*11
Stoughton	107-314	17
"	400-611	18
T		
Taylor	1-40	12
Third, N.	100-305	15
" S.	100-109	16
" "	200-411	17
" South,		13
Thomas Av., see W. Healey.		
Tremont, E.		3
" W.	300 305	2
U		
Union	500 621	8
University Av., E.	1-34	15
" "	35-53	*12
" "	36-54	*13
" "	55-128	12
" "	300-402	16
" "	401-614	16
" W.	100-215	10
" "	301-411	*9
" "	500-615	7
V		
Vine, E.		4
" W.	100 303	2
W		
Walnut, N.	1-14	12
" "	15-84	12
" "	85-402	4
Walnut, N.	403-416	3
" "	501-509	*3
" S.	1-20	18
Washington, E.	1-115	*4
" "	2-104	*12
" W.	100-215	5
" "	300-503	6
Water, N.	1-20	14
" S.	1-6	14
" "	7-34	13
White, E.	107-314	17
" "	400-611	18
" W.	100-215	11
" "	300 415	9
" "	500-701	8
Willow		15
Wright, N.	301-306	*1
" "	101-109	*16
" "	201-411	*18
" "	501-703	*19
" W.S., n'r'd John		*19

SPECIALS.

A	
Alexander Lumber Co.	12
American Express Co.	5
Am. Sprayer & Supply Co.	3
Arlington Hotel	8
Avenue Public School	7
Auto. Telephone Exchange	10
B	
Beach, B. C. & Co., Grain Elev.	4
Beardsley Hotel	5
Bethel A. M. E. Church	15
Bode & Johnson, Florists	17
Burnham Athenæum	6
" Building	12
" J. F., Hospital	17
Burr, E. M., & Co., Mach. Shop	12
C	
Central Hotel	12
Champaign Bottling Works	13
" Daily News Print'g	12
" Steam Laundry	12
" Mach. & Supply Co. (form'ly)	18
Christian Church	19
Church of Christ	18
City Hall	13
C. C. C. & St. L. R. R. Depots	2
Cleveland Grain Co., Elev.	1
Columbia Public School	12
Crescent Theatre	4
D	
Dean & Bode M'f'g Co., Planing Mill	18
Dickey, C. A., Elev. & Mill	2
Dryer & Burt, Grain Elevator	4
E	
Elsner Grocery Co.	13
Elks Club House	8
Ely Carriage Shop	13
Emanuel Episcopal Church	10
Empire Steam Laundry	10
F	
Fire Department	13
First Baptist Church	10
" Ch. of Christ Scientist	7
" Congreg'l Church	10
" Meth. Epis. Church	6
" Presbyterian Church	6
Franke, T., & Son, Florists	16
G	
Garwood Hume	14
Gazette, Printing	12
German M. E. Church	17
Gregory Public School	5
H	
Harriet J. Lawhead Pub. Sch.	14
High School	8
Hirshfield, J., Bottling W'ks	14
Hoadley, J. W., Stone Yard	1
Home Telephone Co.	10
I	
Illinois Building	10
I. C. R. R. Depot	14
" " Freight House	13
" " Repair Shops & Green Houses, 12 &	14
Illinois Hotel	12
J	
Jacobs Bros., Mattress M'f'g	14
K	
Kuriher Building	5
L	
Lincoln Public School	11
M	
Marquette Public School	12
Miller Harness Co.	12
Morgan's Carpet Cleaning and M'f'g	4
N	
Nagle & Black, Coal Yard	4
Northrop, J. W., Piano M'f'g	8
O	
Olga, F., Planing Mill	18
P	
Police Station	13
Public Library	6
S	
St. John's Catholic Church	13
" Ev. Luth. Church	18
" Mary's Cath. Church, &c.	6
" Peter's Evang. Church	16
Salem Baptist Church	16
Souder, I. B., Dy'g & Clean'g	4
T	
Terre Haute Brew. Co. (f'ly)	13
Times Printing	12
Twin City Planing Mill	17
" " Ice & Cold St'g e Co.	4
U	
U. S. Express Office	13
" Post Office	5
University Sanitarium	15
U. of C. R'y, Gas & Elec. Co., Barns and Power Ho.	2
" Gas Works	1
" Heating Plant	13
W	
Wabash R. R. Depot	2
Walker Opera House	10
Walz, W. F., & Co., Lumber Yard	12 & 18
Walshley, E. H., Plan'g Mill	5
White Star Steam Laundry	18
Wilber, Farrer & Quinlan, Wholesale Grocers	12
Willard Public School	16
Wolfe Public School	19
Y	
Y. M. C. A. Building	10

* Indicates only one side of Street shown.

INDEX.



E. VINE

E. COLUMBIA AV.

E. WASHINGTON

E. HILL

E. CHURCH

N. 4TH ST.

N. 5TH ST.

N. 6TH ST.

N. 3RD ST.

POPLAR

N. WRIGHT ST. - URBANA MAP

URBANA COALITION LINE

SCALE 100 FT. TO AN INCH

CHAMPAIGN ILL. MAR. 1916

URBANA & CHAMPAIGN RAILWAY GAS & ELEC. CO. GAS WORKS.

COKE PILE

GAS HOLDER

The Sanborn Library, LLC

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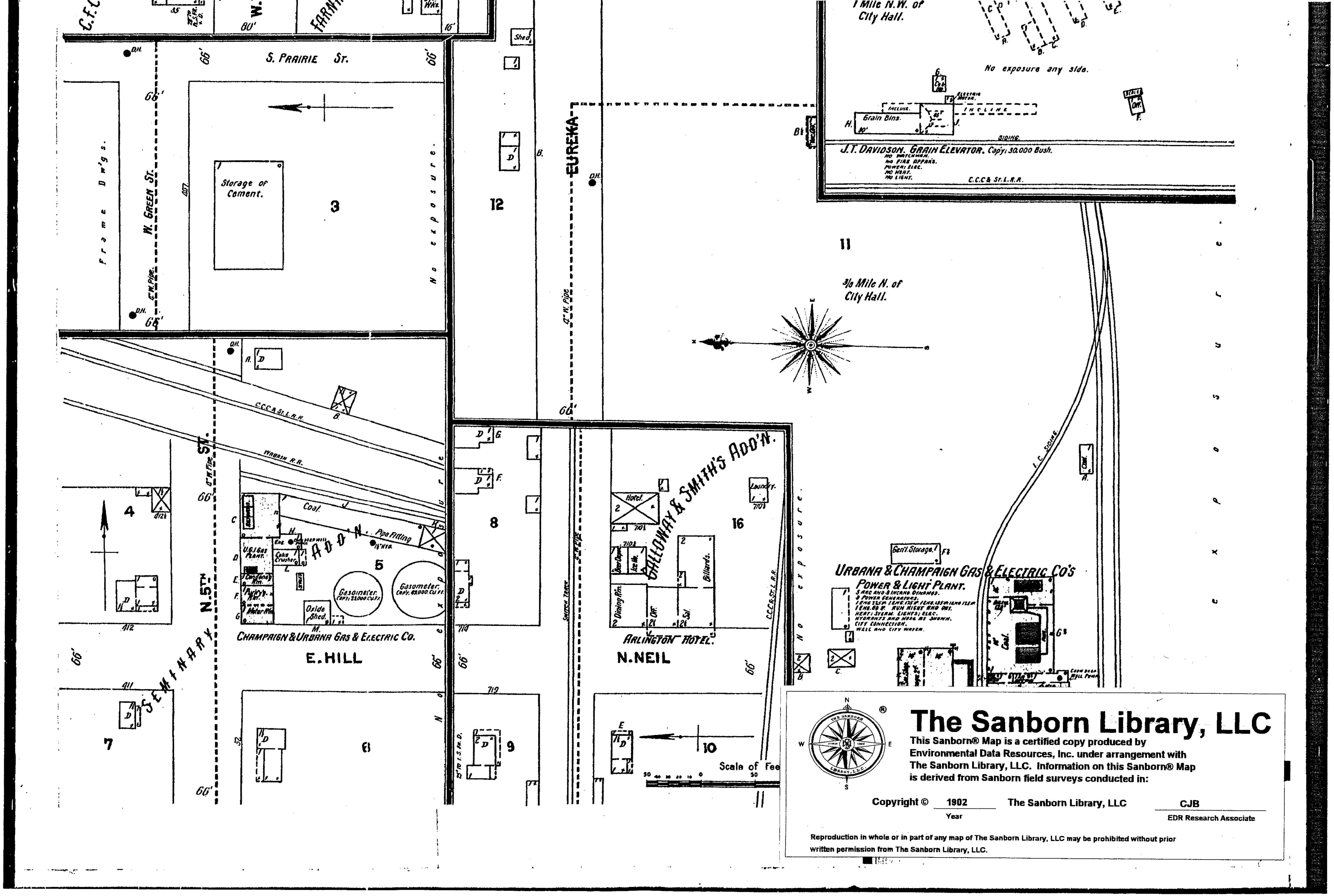
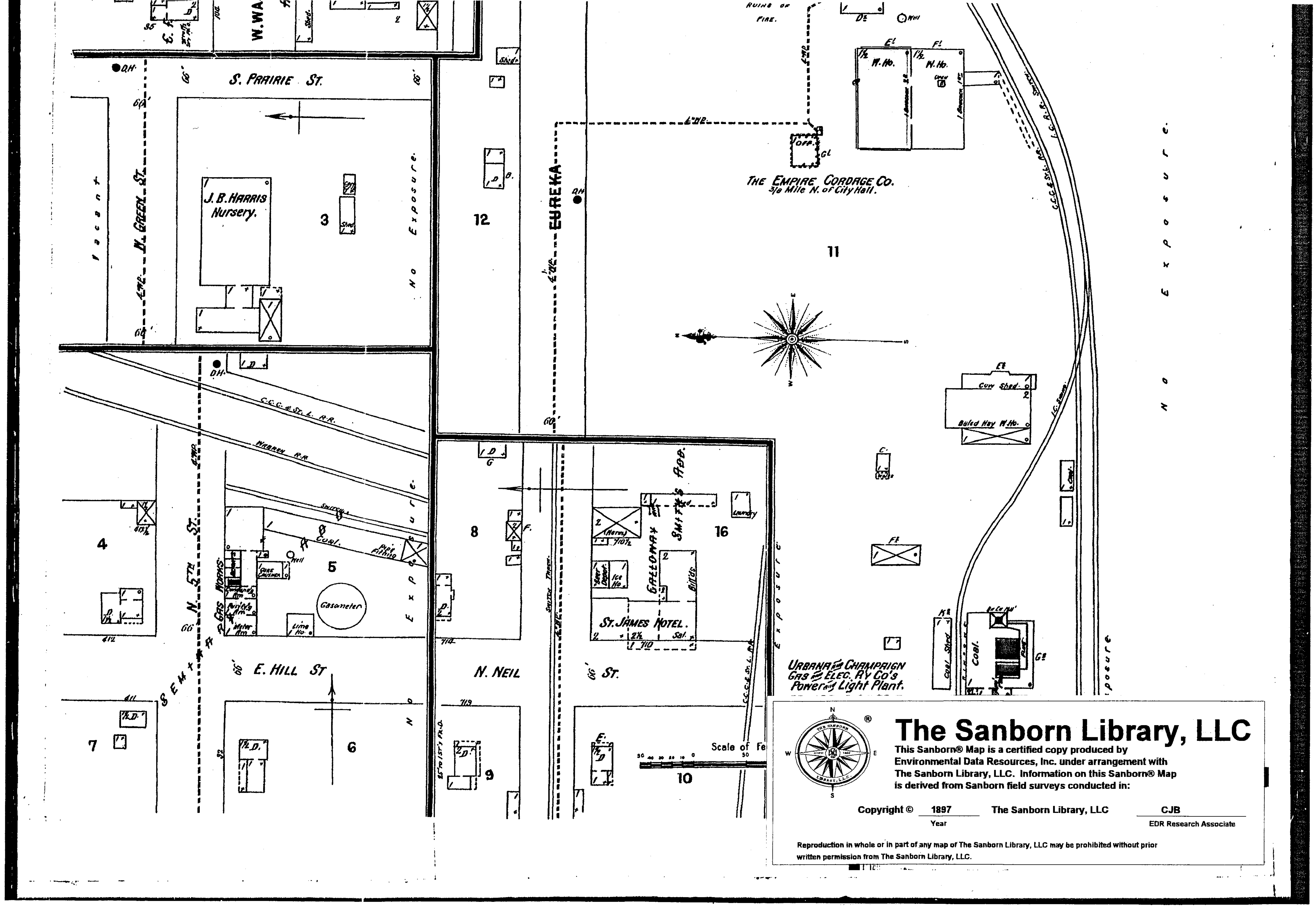
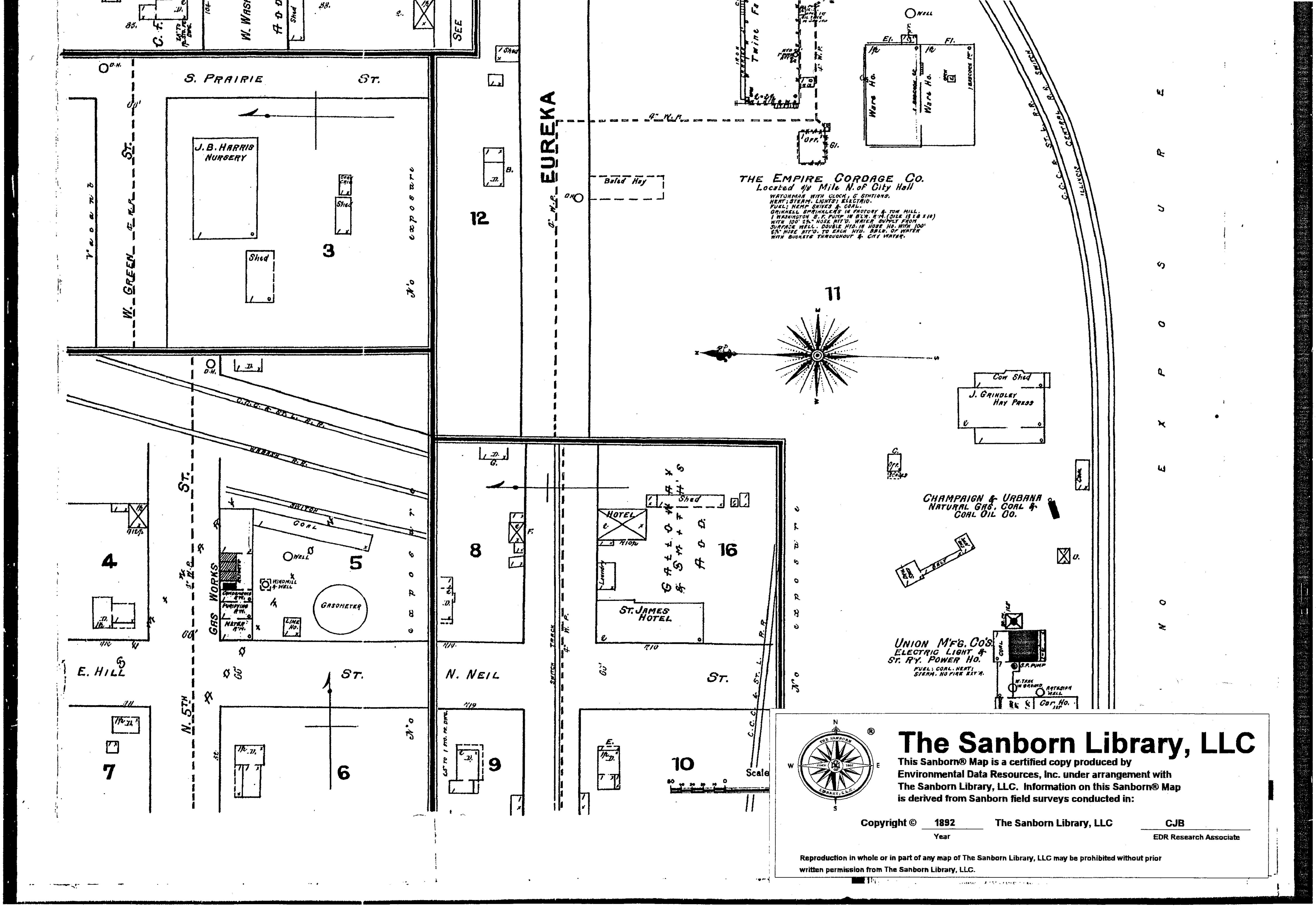
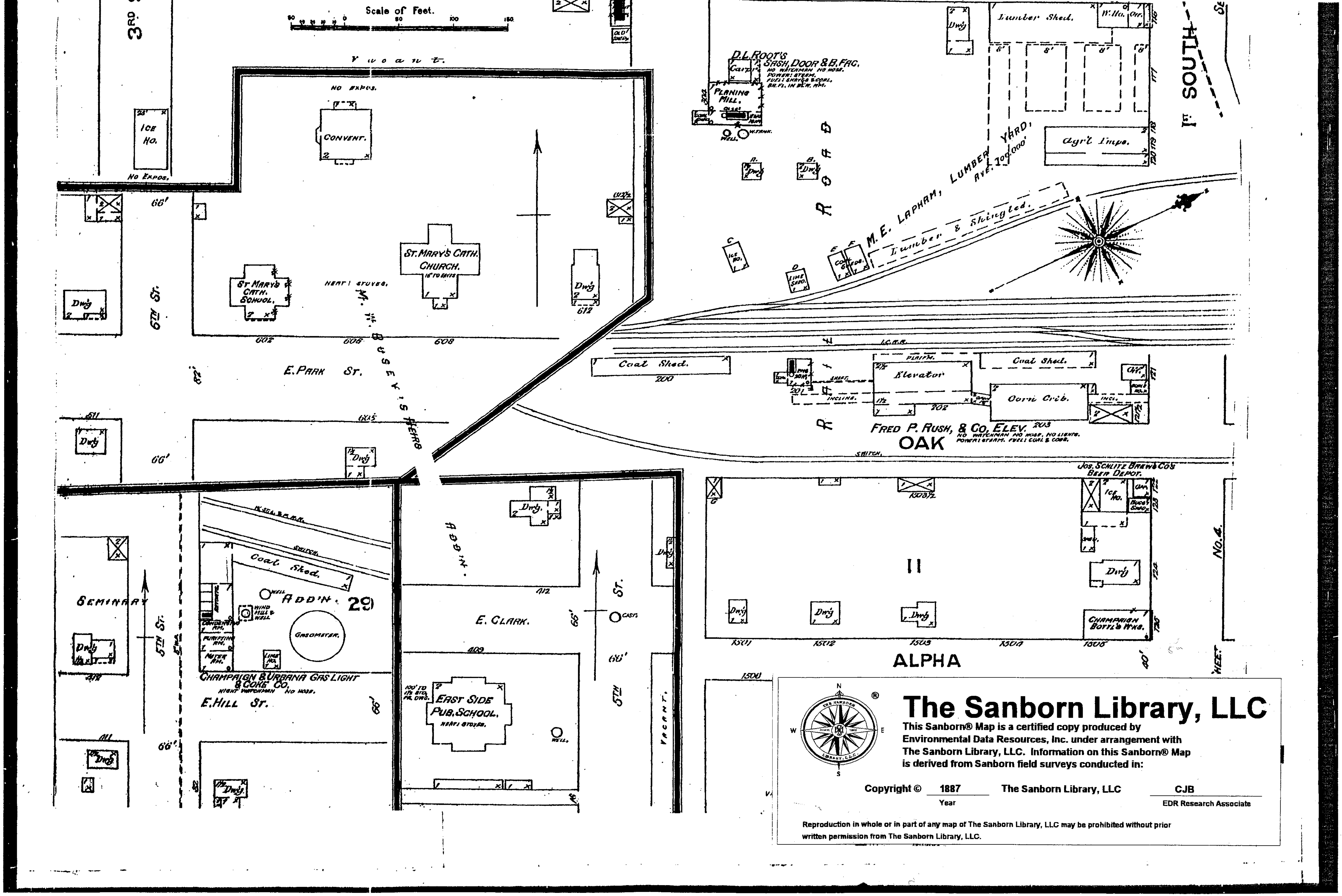


S. PRAIRIE ST.
W. GREEN ST.
Frame Dw'gs.
Storage of Cement.
No exposure
EUREKA
1 Mile N.W. of City Hall.
No exposure any side.
Grain Bins.
J.T. DAVIDSON. GRAIN ELEVATOR. Copy: 30,000 Bush.
C.C.C.& St.L.R.R.
3/4 Mile N. of City Hall.
C.C.C.& St.L.R.R.
WABASH R.R.
N. 5TH ST.
SEMINARY
Coal
Pipe Fitting
Gasometer
Oxide Shed
CHAMPAIGN & URBANA GAS & ELECTRIC CO.
E. HILL
GALLOWAY & SMITH'S ADD'N.
Hotel
Laundry
Billiards
Dining Rm.
ARLINGTON HOTEL.
N. NEIL
URBANA & CHAMPAIGN GAS & ELECTRIC CO'S POWER & LIGHT PLANT.
Gen'l Storage.
I.C. SIDING
Scale of Feet


S. PRAIRIE ST.
N. GREEN ST.
Vacant
J. B. HARRIS Nursery.
No Exposure.
EUREKA
THE EMPIRE CORDAGE CO.
3/8 Mile N. of City Hall.
W. Ho.
Baled Hay W. Ho.
Curing Shed.
C.C.C.& St. L. R.R.
WARREN R.R.
I.C.R.R.
N. 5TH ST.
GAS WORKS
Gasometer
Coal.
Pipe Fitting
Lime Ho.
Laundry
GALLOWAY & SMITH'S ADD.
ST. JAMES HOTEL.
E. HILL ST.
N. NEIL ST.
URBANA AND CHAMPAIGN GAS & ELEC. RY CO'S POWER AND LIGHT PLANT.
Coal Shed
Ruins of Fire.
Off.
Scale of Fe
1
2
3
4
5
6
7
8
9
10
11
12
16





APPENDIX B

EDR Illinois Water Well Report
EDR Radius Map With Geo Check

EDR Illinois Water Well Report

IP Champaign, Former MGP
308 North Fifth Street
Champaign, IL 61820

Inquiry Number: 815413.3s

July 16, 2002

Environmental Data Resources, Inc.

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

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

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

FORM-OPM

TABLE OF CONTENTS

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

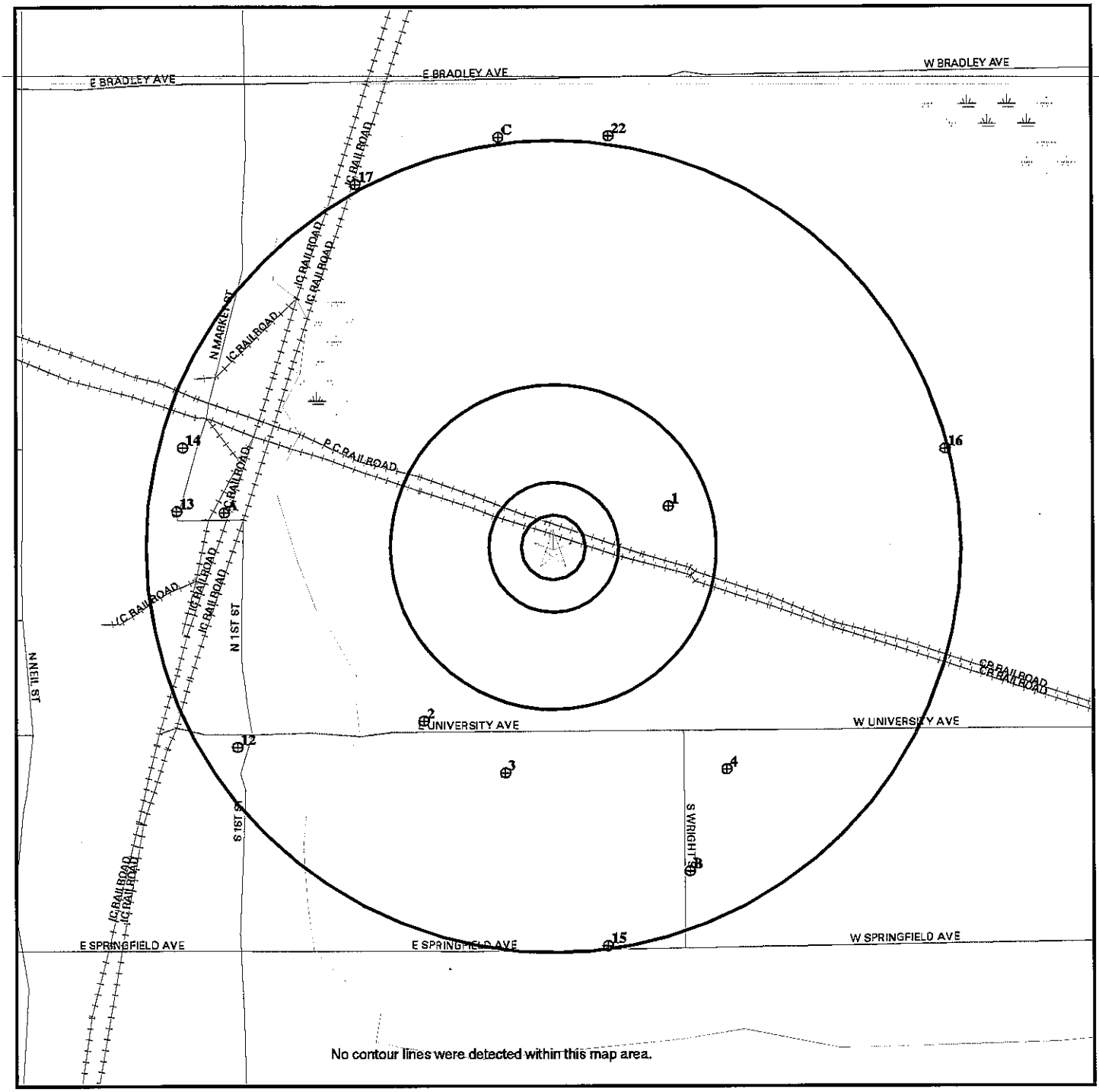
The EDR Illinois Water Well Report

The EDR-Illinois Water Well Report is a screening tool designed to assist in the location of water supply wells in accordance with the Illinois EPA Leaking Underground Storage Tank Program: Site Classification Completion Report.

The EDR-Illinois Water Well Report consists of the following information within 1/2 mile of target property:

- wells
- map displaying concentric rings at 200', 400' 1000' and 2500'
- topography (25 foot intervals unless otherwise shown)
- major roads
- surface water bodies
- railroad tracks
- flood plains (available in selected counties)
- wetlands (available in selected counties)
- geologic data
- radon data

TOPOGRAPHIC MAP - 815413.3s - Philip Services Corporation



Source: US Geological Survey 1-Degree Digital Elevation Model - Compiled 09/15/92

0 500 1000 2000 ft

- Major Roads
- Contour Lines (25 foot interval unless otherwise shown)
- Waterways
- Water Wells within search distance to Target Property
- Earthquake Epicenters (Richter 5 or greater)
- Power Lines
- Pipe Lines
- Fault Lines
- Rail Roads
- Water Bodies
- Wetlands

TARGET PROPERTY:	IP Champaign, Former MGP	CUSTOMER:	Philip Services Corporation
ADDRESS:	308 North Fifth Street	CONTACT:	Barb Bruss
CITY/STATE/ZIP:	Champaign IL 61820	INQUIRY #:	815413.3s
LAT/LONG:	40.1194 / 88.2318	DATE:	July 16, 2002

WELL SEARCH SUMMARY

GEOLOGIC AGE IDENTIFICATION†

Geologic Code:	PP1
Era:	Paleozoic
System:	Pennsylvanian
Series:	Atokan and Morrowan Series

ROCK STRATIGRAPHIC UNIT†

Category:	Stratifed Sequence

SEARCH DISTANCE RADIUS INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal Database	0.500
State Database	0.500
PWS Database	0.500

FEDERAL DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

NO WELLS FOUND

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	120192353800	753 Ft. ENE
2	120192432900	1334 Ft. SW
3	120192433000	1422 Ft. SSW
4	120190045900	1733 Ft. SE
A5	120192428900	2025 Ft. West
A6	120192428800	2025 Ft. West
B7	120190045700	2164 Ft. SSE
B8	120190046100	2164 Ft. SSE
B9	120190046000	2164 Ft. SSE
B10	120190045800	2164 Ft. SSE
B11	120190046200	2164 Ft. SSE
12	120190044300	2294 Ft. WSW
13	120190040400	2316 Ft. West
14	120190040300	2351 Ft. WNW
15	120190047400	2480 Ft. South
16	120190045100	2483 Ft. ENE
17	120192432800	2540 Ft. NNW
C18	120192353600	2542 Ft. North
C19	120192354000	2542 Ft. North
C20	120192354400	2542 Ft. North
C21	120192354500	2542 Ft. North
22	120190100700	2552 Ft. North

† Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

WELL SEARCH SUMMARY

PUBLIC WATER SUPPLY SYSTEM INFORMATION

NO WELLS FOUND

AREA RADON INFORMATION

Federal EPA Radon Zone for CHAMPAIGN County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CHAMPAIGN COUNTY, IL

Number of sites tested: 15

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.120 pCi/L	87%	13%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	5.453 pCi/L	60%	33%	7%

WELL SEARCH FINDINGS

Map ID / Direction / Distance				
1 ENE 753 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192353800	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3353474	Y Coord:	2584555
2 SW 1334 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192432900	Group Number:	31
	Well Type:	WATER	Boring:	0
	X Coord:	3351996	Y Coord:	2583217
3 SSW 1422 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192433000	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3352496	Y Coord:	2582905
4 SE 1733 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190045900	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3353849	Y Coord:	2582946
A5 West 2025 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192428900	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3350766	Y Coord:	2584478
A6 West 2025 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192428800	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3350766	Y Coord:	2584478
B7 SSE 2164 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190045700	Group Number:	31
	Well Type:	WATER	Boring:	0
	X Coord:	3353631	Y Coord:	2582318
B8 SSE 2164 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190046100	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3353863	Y Coord:	2582299
B9 SSE 2164 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190046000	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3353863	Y Coord:	2582299

WELL SEARCH FINDINGS

Map ID / Direction / Distance				
B10 SSE 2164 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190045800	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3353863	Y Coord:	2582299
B11 SSE 2164 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190046200	Group Number:	31
	Well Type:	WATER	Boring:	0
	X Coord:	3353863	Y Coord:	2582299
12 WSW 2294 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190044300	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3350864	Y Coord:	2583042
13 West 2316 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190040400	Group Number:	31
	Well Type:	WATER	Boring:	0
	X Coord:	3350476	Y Coord:	2584482
14 WNW 2351 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190040300	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3350507	Y Coord:	2584873
15 South 2480 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190047400	Group Number:	31
	Well Type:	WATER	Boring:	0
	X Coord:	3353138	Y Coord:	2581852
16 ENE 2483 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190045100	Group Number:	31
	Well Type:	WATER	Boring:	0
	X Coord:	3355160	Y Coord:	2584927
17 NNW 2540 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192432800	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3351537	Y Coord:	2586497
C18 North 2542 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192353600	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3352406	Y Coord:	2586795

WELL SEARCH FINDINGS

Map ID Direction Distance				
C19 North 2542 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192354000	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3352406	Y Coord:	2586795
C20 North 2542 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192354400	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3352406	Y Coord:	2586795
C21 North 2542 Ft.	Info Source:	IL Geological Survey		
	API ID:	120192354500	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3352406	Y Coord:	2586795
22 North 2552 Ft.	Info Source:	IL Geological Survey		
	API ID:	120190100700	Group Number:	31
	Well Type:	WTST	Boring:	0
	X Coord:	3353084	Y Coord:	2586813

ILLINOIS GOVERNMENT WELL RECORDS SEARCHED

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

Area Radon Information
Source: EPA
Telephone: 303-236-1525
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 202-564-9370
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

County Well Data in Illinois: Cook and DuPage Counties
Source: Illinois State Geological Survey
Telephone: 217-244-2387

Illinois Private Well Database and PICS (Public, Industrial, Commercial Survey)
Source: Illinois State Water Survey
Telephone: 217-333-9043

Illinois State Geological Survey Water Wells
Source: Illinois State Geological Survey
Telephone: 217-333-5102
Point data set that shows locations, well type, and well ID for wells in Illinois. Data comes from driller's logs.

STREET AND ADDRESS INFORMATION

The EDR Radius Map
with GeoCheck®

IP Champaign, Former MGP
308 North Fifth Street
Champaign, IL 61820

Inquiry Number: 815413.1s

July 17, 2002

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

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

FORM-DPM

TABLE OF CONTENTS

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

EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

308 NORTH FIFTH STREET
CHAMPAIGN, IL 61820

COORDINATES

Latitude (North):	40.119400 - 40° 7' 9.8"
Longitude (West):	88.231800 - 88° 13' 54.5"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	395033.1
UTM Y (Meters):	4441526.5

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	2440088-A2 URBANA, IL
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 5 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ILLINOIS POWER TOWN GAS PLANT 502 EAST HILL STREET CHAMPAIGN, IL 61820	SRP	N/A
ILLINOIS POWER CO CHAMPAIGN MGP 502 E HILL ST CHAMPAIGN, IL 61820	RCRIS-SQG FINDS	ILD984783472

DATABASES WITH NO MAPPED SITES

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

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRIS-TSD..... Resource Conservation and Recovery Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System

ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

SHWS..... State Oversight List
SWF/LF..... Available Disposal for Solid Waste in Illinois - Solid Waste Landfills Subject to State Surcharge
IMPDMENT..... Surface Impoundment Inventory
CAT..... Category List

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

IL NIPC..... Solid Waste Landfill Inventory

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

FEDERAL ASTM STANDARD

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/10/2002 has revealed that there are 4 RCRIS-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IVEY AUTO BODY SPECIALIST	***503 E UNIVERSITY***	***1/8 - 1/4 S***	***D7***	***7***
CHRIS AUTO BODY	501 E UNIVERSITY AVE	1/8 - 1/4 S	D8	8
SHEPARDSON DR CR OFFICE LAB	***1401 W PARK AVE***	***1/8 - 1/4 SE***	***C15***	***13***
KEY ONE HOUR CLEANERS NO 136	***401 E UNIVERSITY***	***1/8 - 1/4 SSW***	***F16***	***13***

STATE ASTM STANDARD

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

A review of the LUST list, as provided by EDR, and dated 05/24/2002 has revealed that there are 7 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
COVENANT MEDICAL CTR.	600 EAST PARK ST.	1/8 - 1/4 SSE	B5	6
SNODGRASS, LARRY	606 EAST UNIVERSITY AVE	1/8 - 1/4 SSE	E11	9
CHAMPAIGN SCHOOL DIST.	606 EAST GROVE	1/4 - 1/2 NNE	17	14
U-HAUL	306 EAST UNIVERSITY	1/4 - 1/2 SW	18	15
PROVENA COVENANT MEDICAL CTR.	1412 WEST UNIVERSITY AV	1/4 - 1/2 SE	19	15
TWIN CITY RADIATOR	***210 E UNIVERSITY AVE***	***1/4 - 1/2 SW***	***20***	***16***
PEOPLES PERFORMANCE AUTOMOTIVE	209 SOUTH 1ST ST.	1/4 - 1/2 SW	21	17

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

A review of the UST list, as provided by EDR, and dated 06/11/2002 has revealed that there are 7 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHAMPAIGN CO MENTAL HEALTH CTR	600 E PARK	1/8 - 1/4 SSE	B4	6
MICRO ELECTRONICS BLDG	208 N WRIGHT ST	1/8 - 1/4 SE	C6	7
CITY OF CHAMPAIGN	105 S 5TH ST	1/8 - 1/4 S	D9	8
URBANA ARMORY	PO BOX 1049 600 E UNIVE	1/8 - 1/4 SSE	E10	9
AVENUE AUTO SALES	606 E UNIVERSITY AVE	1/8 - 1/4 SSE	E12	10
BIGFOOD #100	609 E UNIVERSITY	1/8 - 1/4 SSE	E13	11
VACANT LOT	409 E. UNIVERSITY	1/8 - 1/4 SSW	F14	13

STATE OR LOCAL ASTM SUPPLEMENTAL

A review of the SRP list, as provided by EDR, and dated 05/17/2002 has revealed that there are 3 SRP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ALMA MASON	1021 WEST MAIN STREET	1/2 - 1 ESE	23	19

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
PORTER PROPERTY	405 SOUTH NEIL STREET	1/2 - 1 SW	24	19
CHRISTIE CLINIC	101 SOUTH STATE STREET	1/2 - 1 WSW	25	20

PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites:

The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative

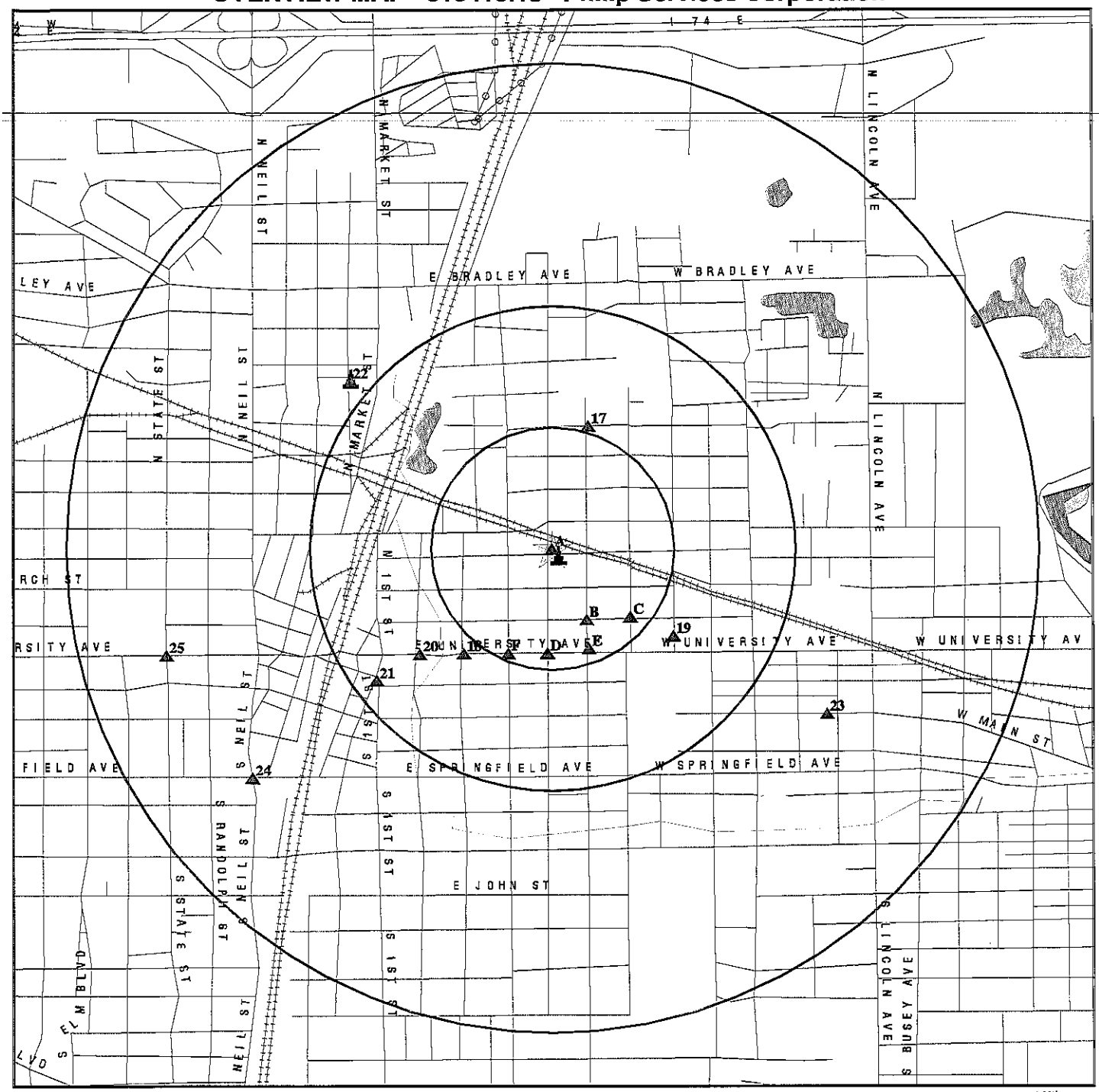
A review of the Coal Gas list, as provided by EDR, has revealed that there are 2 Coal Gas sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHAMPAIGN AND URBANA GAS LIGHT	500 & 501 E. HILL	0 - 1/8 SE	A3	6
URBANA AND CHAMPAIGN GAS & ELE	CHAMPAIGN ST.	1/2 - 1 NW	22	19

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

Site Name	Database(s)
CHAMPAIGN MUNICIPAL	CERC-NFRAP
CHAMPAIGN MUNICIPAL #1	CERC-NFRAP
LOEWEN GROUP INTERNATIONAL, INC.	LUST
URBANA & CHAMPAIGN SANITARY DIST.	LUST
CAMP FARM MANAGEMENT INC.	LUST
ROCKET MOTOR FREIGHT (AMOCO OIL CO.	LUST
LEE, HARLAN	LUST
JR SCHUGEL TRUCKING INC.	LUST
CHAS LEVY CO.	LUST
LEE, HARLAN	LUST
CHAMPAIGN/URBANA MASTRANSIT CO.	LUST
FORMER SITE STATION 74	UST
WINGFIELD DISTRIBUTORS INC	UST
L & L SALES & SER INC	UST
ILDOT STA 1219 0 14	RCRIS-SQG, FINDS
ILDOT STA 321 62 12	RCRIS-SQG, FINDS
EMULSICOAT INC	RCRIS-SQG, FINDS
CHAMPAIGN RAILYARD MILE POST 128	ERNS
SOUTHSIDE OF CHAMPAIGN	ERNS
UNIV. OF ILLINOIS - CHAMPAIGN/URBANA	FINDS
GENERAL SERVICES - CHAMPAIGN REG. BLDG.	FINDS
ILLINOIS POWER CO - CHAMPAIGN PROPANE PL	FINDS
U S GSA - FEDERAL BLDG CHAMPAIGN	FINDS
URBANA CHAMPAIGN S D SW	FINDS

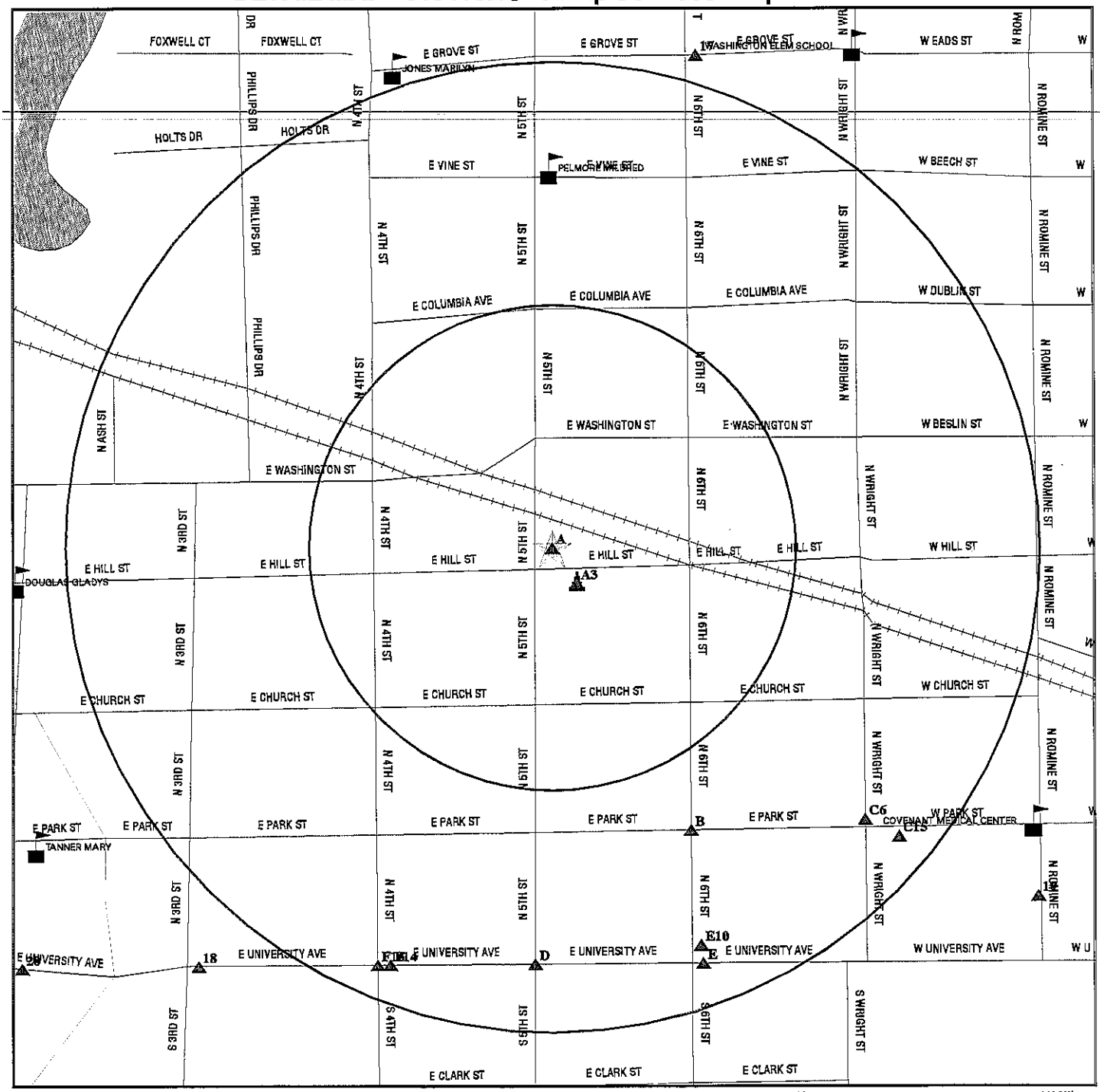
OVERVIEW MAP - 815413.1s - Philip Services Corporation



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- Wetlands

TARGET PROPERTY:	IP Champaign, Former MGP	CUSTOMER:	Philip Services Corporation
ADDRESS:	308 North Fifth Street	CONTACT:	Barb Bruss
CITY/STATE/ZIP:	Champaign IL 61820	INQUIRY #:	815413.1s
LAT/LONG:	40.1194 / 88.2318	DATE:	July 17, 2002 11:05 am

DETAIL MAP - 815413.1s - Philip Services Corporation



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- Wetlands

TARGET PROPERTY:	IP Champaign, Former MGP	CUSTOMER:	Philip Services Corporation
ADDRESS:	308 North Fifth Street	CONTACT:	Barb Bruss
CITY/STATE/ZIP:	Champaign IL 61820	INQUIRY #:	815413.1s
LAT/LONG:	40.1194 / 88.2318	DATE:	July 17, 2002 11:06 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.	X	0.250	0	4	NR	NR	NR	4
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
State Haz. Waste		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	5	NR	NR	7
UST		0.250	0	7	NR	NR	NR	7
IMPDMENT		0.500	0	0	0	NR	NR	0
CAT		1.000	0	0	0	0	NR	0
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
SRP	X	1.000	0	0	0	3	NR	3
IL NIPC		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY HISTORICAL DATABASES								
Coal Gas		1.000	1	0	0	1	NR	2
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

A1 **ILLINOIS POWER TOWN GAS PLANT** **SRP** **S104491173**
Target **502 EAST HILL STREET** **N/A**
Property **CHAMPAIGN, IL 61820**

Site 1 of 3 in cluster A

SRP:

IL EPA Id :	0190100008
US EPA Id :	ILD984783472
Remediation Applicant Co :	Illinois Power Company
Remediation Applicant Title :	Mr.
Contact First Name:	Brian
Contact Last Name :	Martin
Contact Address :	500 South 27th Street
Contact Address:	500 South 27th Street P.O. Box 511 Decatur, IL, 62525
Contact Phone :	(217) 424-7525
Date Enrolled :	08/31/1989
Consultant Company :	Philip Environmental
Point Of Contact :	Darrel Wolff, P.E.
Consultant Address:	210 West Sand Bank Road P.O. Box 330 Columbia, IL, 62236
Consultant Phone :	(618) 281-7173
Proj Mgr Assigned :	Frierdich
Sec. 4 Letter Date :	/ /
No Further Remediation Letter Dt :	/ /
NFR Recorded :	/ /
Active :	True
Total Acres :	5.00000

A2 **ILLINOIS POWER CO CHAMPAIGN MGP** **RCRIS-SQG** **1000258192**
Target **502 E HILL ST** **FINDS** **ILD984783472**
Property **CHAMPAIGN, IL 61820**

Site 2 of 3 in cluster A

RCRIS:

Owner: ILLINOIS POWER CO
(217) 424-6488
EPA ID: ILD984783472

Contact: BOB THOMAS
(217) 424-7087

Classification: Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
A3 SE < 1/8 117 ft. Higher	**CHAMPAIGN AND URBANA GAS LIGHT AND COKE** **500 & 501 E. HILL** **CHAMPAIGN, IL 61820** **Site 3 of 3 in cluster A**	Coal Gas	G000001008 N/A

COAL GAS SITE DESCRIPTION:
1887 site is on northeast corner of E. Hill and 5th Streets, south of the Wabash alled Champaign and Urbana Gas and Electric Co., additional gasometer to the eas 1924, site called Illinois Power and Light Corp. Champaign Division Gas Plant -e s of E. Hill Street.

B4 SSE 1/8-1/4 855 ft. Higher	**CHAMPAIGN CO MENTAL HEALTH CTR** **600 E PARK** **CHAMPAIGN, IL 61820** **Site 1 of 2 in cluster B**	UST	U001141518 N/A

UST:

Facility ID:	4027406
Status:	Closed
Owner Name:	Covenant Medical Ctr
Owner Address:	1400 W Park Urbana, IL 61866
Contact:	Mann Bob
Phone #:	(217) 337-2156
Permit Number:	Not reported
Permit Expires:	Not reported
Tank Status:	Removed
Tank Last Used:	Not reported
Fee Owed:	No
Tank Number:	1
Tank Capacity:	3000
Tank Age:	28
Tank Red Tag:	No
Tank Substance:	Diesel

B5 SSE 1/8-1/4 855 ft. Higher	**COVENANT MEDICAL CTR.** **600 EAST PARK ST.** **CHAMPAIGN, IL 61820** **Site 2 of 2 in cluster B**	LUST	S104527359 N/A

LUST:

Incident Num :	892657
IL EPA Id :	0190105107
IEMA Date :	12/15/1989
Attn :	Robert Mann
PRP Name :	Covenant Medical Ctr.
PRP Address :	1400 West Park Urbana, IL 61801
PRP Phone :	Not reported
Non LUST Determination Letter :	/ /
Section 57.59(g) Letter :	/ /
NFA/NFR Letter :	12/07/1990
Site Classification :	Not reported
Project Manager :	Project Manager not yet assigned.
Product Type:	Diesel Fuel
General Date:	02/29/1992
General Desc:	45 Day Report received

COVENANT MEDICAL CTR. (Continued) **S104527359**

Site Name:	Covenant Medical Ctr.
General Date:	02/29/1992
General Desc:	20 Day Report received
Site Name:	Covenant Medical Ctr.
General Date:	01/10/1990
General Desc:	Response Letter received
Site Name:	Covenant Medical Ctr.
General Date:	12/29/1989
General Desc:	Notice of Release Letter sent
Site Name:	Covenant Medical Ctr.
NFR/NFA Date:	Not reported
Taco Desc:	Not reported
Site Name:	Not reported
Document Desc:	Not reported
Document Received:	Not reported
Response Type:	Not reported
Response Mailed:	Not reported
Site Name:	Not reported

C6 **MICRO ELECTRONICS BLDG** **UST** **U001964937**
SE **208 N WRIGHT ST** **N/A**
1/8-1/4 **URBANA, IL 61801**
1124 ft.
Higher **Site 1 of 2 in cluster C**

UST:

Facility ID:	4033063
Status:	Closed
Owner Name:	University Of Illinois
Owner Address:	506 S Wright St Champaign, IL 61820
Contact:	Ignazito Martin D
Phone #:	(217) 244-7784
Permit Number:	Not reported
Permit Expires:	Not reported
Tank Status:	Removed
Tank Last Used:	5/1/94 00:00:00
Fee Owed:	No
Tank Number:	1
Tank Capacity:	2000
Tank Age:	10
Tank Red Tag:	No
Tank Substance:	Diesel

D7 **IVEY AUTO BODY SPECIALIST** **RCRIS-SQG** **1000439528**
South **503 E UNIVERSITY** **FINDS** **ILD075616656**
1/8-1/4 **CHAMPAIGN, IL 61820**
1134 ft.
Higher **Site 1 of 3 in cluster D**

IVEY AUTO BODY SPECIALIST (Continued) **1000439528**

RCRIS:
Owner: SWANSON DOUGLAS
(312) 555-1212
EPA ID: ILD075616656
Contact: DOUGLAS SWANSON
(217) 356-3961
Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

D8
South
1/8-1/4
1135 ft.
Higher

CHRIS AUTO BODY **RCRIS-SQG** **1004692403**
501 E UNIVERSITY AVE **IL0000189688**
CHAMPAIGN, IL 61820

Site 2 of 3 in cluster D

RCRIS:
Owner: MOFFITT CHRIS
(217) 355-5076
EPA ID: IL0000189688
Contact: CHRIS MOFFITT
(217) 355-5076
Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported
Violation Status: No violations found

D9
South
1/8-1/4
1148 ft.
Higher

CITY OF CHAMPAIGN **UST** **U003805655**
105 S 5TH ST **N/A**
CHAMPAIGN, IL 61820

Site 3 of 3 in cluster D

UST:
Facility ID: 4040707
Status: Exempt
Owner Name: City Of Champaign Public Works
Owner Address: 702 Edgebrook
Champaign, IL 61820
Contact: Eleanor Blackmon
Phone #: (217) 351-4466
Permit Number: Not reported
Permit Expires: Not reported
Tank Status: Exempt from registration
Tank Last Used: 12/31/73 00:00:00
Fee Owed: No
Tank Number: 1

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	CITY OF CHAMPAIGN (Continued)		**U003805655**
	Tank Capacity: 6000 Tank Age: Not reported Tank Red Tag: No Tank Substance: Fuel Oil		
E10 **SSE** **1/8-1/4** **1154 ft.** **Higher**	**URBANA ARMORY** **PO BOX 1049 600 E UNIVERSITY AVE** **URBANA, IL 61801** **Site 1 of 4 in cluster E**	**UST**	**U000855533** **N/A**
	UST: Facility ID: 4026325 Status: Closed Owner Name: IL Dept. of Military Affairs Owner Address: 1301 N. MacArthur Blvd. Springfield, IL 62702 Contact: Galassi Cpt Mike Phone #: (217) 333-5795 Permit Number: Not reported Permit Expires: Not reported Tank Status: Removed Tank Last Used: 3/1/91 00:00:00 Fee Owed: No Tank Number: 1 Tank Capacity: 10000 Tank Age: 38 Tank Red Tag: No Tank Substance: Kerosene		
E11 **SSE** **1/8-1/4** **1202 ft.** **Higher**	**SNODGRASS, LARRY** **606 EAST UNIVERSITY AVE.** **CHAMPAIGN, IL 61820** **Site 2 of 4 in cluster E**	**LUST**	**S104872172** **N/A**
	LUST: Incident Num : 20002365 IL EPA Id : 0190105299 IEMA Date : 12/18/2000 Attn : Not reported PRP Name : Larry Snodgrass PRP Address : R.R. 2, Box 71 Heyworth, IL 61745 PRP Phone : (309) 473-3671 Non LUST Determination Letter : / / Section 57.59(g) Letter : / / NFA/NFR Letter : 08/07/2001 Site Classification : Not reported Project Manager : Hale Product Type: Unleaded Gasoline General Date: 12/21/2000 General Desc: Notice of Release Letter sent Site Name: Snodgrass, Larry General Date: 05/24/2001 General Desc: Professional Engineer Certification received Site Name: Snodgrass, Larry		

SNODGRASS, LARRY (Continued) **S104872172**

General Date:	05/24/2001
General Desc:	45 Day Report Addendum received
Site Name:	Snodgrass, Larry
General Date:	07/30/2001
General Desc:	Miscellaneous Correspondence received
Site Name:	Snodgrass, Larry
General Date:	01/17/2001
General Desc:	20 Day Report received
Site Name:	Snodgrass, Larry
General Date:	02/02/2001
General Desc:	45 Day Report received
Site Name:	Snodgrass, Larry
General Date:	03/05/2001
General Desc:	45 Day Selection Received Letter sent
Site Name:	Snodgrass, Larry
General Date:	01/10/2001
General Desc:	Early Action Extension Request received
Site Name:	Snodgrass, Larry
General Date:	01/26/2001
General Desc:	Early Action Extension Approval Letter sent
Site Name:	Snodgrass, Larry
NFR/NFA Date:	08/07/2001
Taco Desc:	No Groundwater Encountered
Site Name:	Snodgrass, Larry
NFR/NFA Date:	08/07/2001
Taco Desc:	Tier 1-Soil
Site Name:	Snodgrass, Larry
Document Desc:	Corrective Action Completion Report
Document Received:	05/24/2001
Response Type:	Approved
Response Mailed:	08/07/2001
Site Name:	Snodgrass, Larry

E12 **AVENUE AUTO SALES** **UST** **U003762780**
SSE **606 E UNIVERSITY AVE** **N/A**
1/8-1/4 **CHAMPAIGN, IL 61820**
1202 ft.
Higher **Site 3 of 4 in cluster E**

UST:

Facility ID:	4040209
Status:	Closed
Owner Name:	Larry Snodgrass
Owner Address:	RR 2 Box 71
	Heyworth, IL 61745
Contact:	Larry Snodgrass
Phone #:	(309) 473-3671
Permit Number:	Not reported
Permit Expires:	Not reported
Tank Status:	Removed
Tank Last Used:	12/31/79 00:00:00
Fee Owed:	No
Tank Number:	1
Tank Capacity:	6000
Tank Age:	Not reported
Tank Red Tag:	No
Tank Substance:	Gasoline

Facility ID: 4040209

AVENUE AUTO SALES (Continued) **U003762780**

Status: Closed
Owner Name: Larry Snodgrass
Owner Address: RR 2 Box 71
Heyworth, IL 61745
Contact: Larry Snodgrass
Phone #: (309) 473-3671
Permit Number: Not reported
Permit Expires: Not reported
Tank Status: Removed
Tank Last Used: 12/31/79 00:00:00
Fee Owed: No
Tank Number: 2
Tank Capacity: 6000
Tank Age: Not reported
Tank Red Tag: No
Tank Substance: Gasoline

Facility ID: 4040209
Status: Closed
Owner Name: Larry Snodgrass
Owner Address: RR 2 Box 71
Heyworth, IL 61745
Contact: Larry Snodgrass
Phone #: (309) 473-3671
Permit Number: Not reported
Permit Expires: Not reported
Tank Status: Removed
Tank Last Used: 12/31/79 00:00:00
Fee Owed: No
Tank Number: 3
Tank Capacity: 8200
Tank Age: Not reported
Tank Red Tag: No
Tank Substance: Gasoline

E13 **BIGFOOD #100** **UST** **U000864263**
SSE **609 E UNIVERSITY** **N/A**
1/8-1/4 **CHAMPAIGN, IL 61820**
1205 ft.
Higher **Site 4 of 4 in cluster E**

UST:
Facility ID: 4008005
Status: Active
Owner Name: Bigfoot Food Stores LLC
Owner Address: P. O. Box 347
Columbus, IN 47202
Contact: Not reported
Phone #: Not reported
Permit Number: Not reported
Permit Expires: Not reported
Tank Status: Currently in use
Tank Last Used: Not reported
Fee Owed: No
Tank Number: 1
Tank Capacity: 10000
Tank Age: 30
Tank Red Tag: No
Tank Substance: Gasoline

BIGFOOD #100 (Continued) **U000864263**

Facility ID: 4008005
Status: Active
Owner Name: Bigfoot Food Stores LLC
Owner Address: P. O. Box 347
Columbus, IN 47202
Contact: Not reported
Phone #: Not reported
Permit Number: Not reported
Permit Expires: Not reported
Tank Status: Currently in use
Tank Last Used: Not reported
Fee Owed: No
Tank Number: 2
Tank Capacity: 10000
Tank Age: 30
Tank Red Tag: No
Tank Substance: Gasoline

Facility ID: 4008005
Status: Active
Owner Name: Bigfoot Food Stores LLC
Owner Address: P. O. Box 347
Columbus, IN 47202
Contact: Not reported
Phone #: Not reported
Permit Number: Not reported
Permit Expires: Not reported
Tank Status: Currently in use
Tank Last Used: Not reported
Fee Owed: No
Tank Number: 3
Tank Capacity: 10000
Tank Age: 30
Tank Red Tag: No
Tank Substance: Gasoline

Facility ID: 4008005
Status: Active
Owner Name: Bigfoot Food Stores LLC
Owner Address: P. O. Box 347
Columbus, IN 47202
Contact: Not reported
Phone #: Not reported
Permit Number: Not reported
Permit Expires: Not reported
Tank Status: Currently in use
Tank Last Used: Not reported
Fee Owed: No
Tank Number: 4
Tank Capacity: 6000
Tank Age: 15
Tank Red Tag: No
Tank Substance: Gasoline

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
F14 SSW 1/8-1/4 1219 ft. Higher	**VACANT LOT** **409 E. UNIVERSITY** **CHAMPAIGN, IL 61821** **Site 1 of 2 in cluster F**	**UST**	**U003667611** **N/A**

UST:

Facility ID:	4038923
Status:	Exempt
Owner Name:	Ekstedt David
Owner Address:	2202 Briarhill Champaign, IL 61821
Contact:	Dave Ekstedt
Phone #:	(217) 359-6245
Permit Number:	Not reported
Permit Expires:	Not reported
Tank Status:	Exempt from registration
Tank Last Used:	12/31/73 00:00:00
Fee Owed:	No
Tank Number:	1
Tank Capacity:	500
Tank Age:	Not reported
Tank Red Tag:	No
Tank Substance:	Heating Oil

C15 SE 1/8-1/4 1223 ft. Higher	**SHEPARDSON DR CR OFFICE LAB** **1401 W PARK AVE** **URBANA, IL 61801** **Site 2 of 2 in cluster C**	**RCRIS-SQG** **FINDS**	**1000345197** **ILD115730764**

RCRIS:

Owner:	SHEPARDSON CR MD (312) 555-1212
EPA ID:	ILD115730764
Contact:	CARL MARTIN (217) 367-7889
Classification:	Small Quantity Generator
Used Oil Recyc:	No
TSDF Activities:	Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
- Facility Registry System (FRS)
- Resource Conservation and Recovery Act Information system (RCRAINFO)

F16 SSW 1/8-1/4 1232 ft. Higher	**KEY ONE HOUR CLEANERS NO 136** **401 E UNIVERSITY** **CHAMPAIGN, IL 61820** **Site 2 of 2 in cluster F**	**RCRIS-SQG** **FINDS**	**1000126811** **ILD981099542**

KEY ONE HOUR CLEANERS NO 136 (Continued) **1000126811**

RCRIS:
Owner: BEGLEY CO
(312) 555-1212
EPA ID: ILD981099542
Contact: WENDELL LAKE
(606) 623-2550
Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

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17 **CHAMPAIGN SCHOOL DIST.** **LUST** **S104527767**
NNE **606 EAST GROVE** **N/A**
1/4-1/2 **CHAMPAIGN, IL 61820**
1395 ft.
Higher

LUST:

Incident Num :	891093
IL EPA Id :	0190100022
IEMA Date :	06/23/1989
Attn :	Don
PRP Name :	Champaign School Dist.
PRP Address :	703 South New Champaign, IL 61820
PRP Phone :	Not reported
Non LUST Determination Letter :	/ /
Section 57.59(g) Letter :	/ /
NFA/NFR Letter :	/ /
Site Classification :	Not reported
Project Manager :	Project Manager not yet assigned.
Product Type:	Diesel Fuel
General Date:	09/07/1989
General Desc:	Response Letter received
Site Name:	Champaign School Dist.
General Date:	07/11/1989
General Desc:	Notice of Release Letter sent
Site Name:	Champaign School Dist.
NFR/NFA Date:	Not reported
Taco Desc:	Not reported
Site Name:	Not reported
Document Desc:	Not reported
Document Received:	Not reported
Response Type:	Not reported
Response Mailed:	Not reported
Site Name:	Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
18 SW 1/4-1/2 1491 ft. Higher	**U-HAUL** **306 EAST UNIVERSITY** **CHAMPAIGN, IL 61820**	LUST	S104523516 N/A

LUST:

Incident Num :	932848
IL EPA Id :	0190105090
IEMA Date :	10/29/1993
Attn :	Vicki Argaritis
PRP Name :	U-Haul
PRP Address :	P.O. Box 21502
	Phoenix, AZ 85036
PRP Phone :	Not reported
Non LUST Determination Letter :	/ /
Section 57.59(g) Letter :	/ /
NFA/NFR Letter :	07/12/1996
Site Classification :	NFA
Project Manager :	Haskins
Product Type:	Used or Waste Oil
General Date:	11/04/1993
General Desc:	Notice of Release Letter sent
Site Name:	U-Haul
General Date:	02/01/1994
General Desc:	20 Day Report received
Site Name:	U-Haul
General Date:	07/10/1996
General Desc:	Professional Engineer Certification received
Site Name:	U-Haul
General Date:	02/01/1994
General Desc:	45 Day Report received
Site Name:	U-Haul
General Date:	07/10/1996
General Desc:	45 Day Report received
Site Name:	U-Haul
NFR/NFA Date:	Not reported
Taco Desc:	Not reported
Site Name:	Not reported
Document Desc:	Site Classification Work Plan Budget
Document Received:	07/25/1996
Response Type:	Approved with Modifications
Response Mailed:	09/09/1996
Site Name:	U-Haul
Document Desc:	Site Classification Work Plan
Document Received:	07/10/1996
Response Type:	Approved without Review
Response Mailed:	07/12/1996
Site Name:	U-Haul
Document Desc:	Site Classification Completion Report
Document Received:	07/10/1996
Response Type:	Approved without Review
Response Mailed:	07/12/1996
Site Name:	U-Haul

19 SE 1/4-1/2 1621 ft. Higher	**PROVENA COVENANT MEDICAL CTR.** **1412 WEST UNIVERSITY AVE.** **URBANA, IL 61801**	LUST	S104529047 N/A

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	PROVENA COVENANT MEDICAL CTR. (Continued)		**S104529047**

LUST:

Incident Num :	982217
IL EPA Id :	0191055139
IEMA Date :	09/08/1998
Attn :	J.D. Hutton
PRP Name :	Provena Covenant Medical Ctr.
PRP Address :	1400 West Park St. Urbana, IL 61801
PRP Phone :	(217) 337-2411
Non LUST Determination Letter :	/ /
Section 57.59(g) Letter :	07/15/1999
NFA/NFR Letter :	/ /
Site Classification :	Not reported
Project Manager :	Kuhlman
Product Type:	Fuel Oil Used or Waste Oil
General Date:	07/15/1999
General Desc:	Review Letter sent
Site Name:	Provena Covenant Medical Ctr.
General Date:	06/11/1999
General Desc:	Elect not to proceed under Title XVI form (letter) received
Site Name:	Provena Covenant Medical Ctr.
General Date:	09/14/1998
General Desc:	Notice of Release Letter sent
Site Name:	Provena Covenant Medical Ctr.
General Date:	01/12/1999
General Desc:	45 Day Report received
Site Name:	Provena Covenant Medical Ctr.
General Date:	01/12/1999
General Desc:	20 Day Report received
Site Name:	Provena Covenant Medical Ctr.
NFR/NFA Date:	Not reported
Taco Desc:	Not reported
Site Name:	Not reported
Document Desc:	Corrective Action Completion Report
Document Received:	01/12/1999
Response Type:	Denied
Response Mailed:	05/12/1999
Site Name:	Provena Covenant Medical Ctr.

20 **SW** **1/4-1/2** **1840 ft.** **Higher**	**TWIN CITY RADIATOR** **210 E UNIVERSITY AVE** **CHAMPAIGN, IL 61820**	**RCRIS-SQG** **FINDS** **LUST**	**1000824836** **ILD984912154**

TWIN CITY RADIATOR (Continued) **1000824836**

RCRIS:
Owner: RONS TCR INC
(217) 352-5111
EPA ID: ILD984912154
Contact: JOHN DORSETT
(217) 352-5111
Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

LUST:

Incident Num :	901302
IL EPA Id :	0190100029
IEMA Date :	05/16/1990
Attn :	Not reported
PRP Name :	Twin City Radiator
PRP Address :	210 East University Champaign, IL 61820
PRP Phone :	Not reported
Non LUST Determination Letter :	/ /
Section 57.59(g) Letter :	/ /
NFA/NFR Letter :	/ /
Site Classification :	Not reported
Project Manager :	Project Manager not yet assigned.
Product Type:	Non Petroleum Product
General Date:	05/21/1990
General Desc:	Notice of Release Letter sent
Site Name:	Twin City Radiator
General Date:	06/04/1990
General Desc:	Response Letter received
Site Name:	Twin City Radiator
NFR/NFA Date:	Not reported
Taco Desc:	Not reported
Site Name:	Not reported
Document Desc:	Not reported
Document Received:	Not reported
Response Type:	Not reported
Response Mailed:	Not reported
Site Name:	Not reported

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21 SW 1/4-1/2 2389 ft. Higher **PEOPLES PERFORMANCE AUTOMOTIVE** **LUST S104521776**
209 SOUTH 1ST ST. **N/A**
CHAMPAIGN, IL 61820

LUST:

Incident Num :	962114
IL EPA Id :	0190105234
IEMA Date :	11/13/1996
Attn :	Patrick Wasson

PEOPLES PERFORMANCE AUTOMOTIVE (Continued) **S104521776**

PRP Name :	Peoples Performance Automotive
PRP Address :	209 South 1st St. Champaign, IL 61820
PRP Phone :	Not reported
Non LUST Determination Letter :	/ /
Section 57.59(g) Letter :	/ /
NFA/NFR Letter :	/ /
Site Classification :	Not reported
Project Manager :	Haskins
Product Type:	Used or Waste Oil
General Date:	09/23/1997
General Desc:	45 Day Report received
Site Name:	Peoples Performance Automotive
General Date:	11/19/1996
General Desc:	Notice of Release Letter sent
Site Name:	Peoples Performance Automotive
General Date:	06/04/1997
General Desc:	20 Day Report received
Site Name:	Peoples Performance Automotive
NFR/NFA Date:	Not reported
Taco Desc:	Not reported
Site Name:	Not reported
Document Desc:	Not reported
Document Received:	Not reported
Response Type:	Not reported
Response Mailed:	Not reported
Site Name:	Not reported
Incident Num :	971720
IL EPA Id :	0190105234
IEMA Date :	09/15/1997
Attn :	Patrick Wasson
PRP Name :	Peoples Performance Automotive
PRP Address :	209 South 1st St. Champaign, IL 61820
PRP Phone :	(217) 352-9520
Non LUST Determination Letter :	/ /
Section 57.59(g) Letter :	/ /
NFA/NFR Letter :	/ /
Site Classification :	Not reported
Project Manager :	Project Manager not yet assigned.
Product Type:	Fuel Oil
General Date:	10/01/1997
General Desc:	20 Day Report received
Site Name:	Peoples Performance Automotive
General Date:	10/14/1997
General Desc:	45 Day Report received
Site Name:	Peoples Performance Automotive
NFR/NFA Date:	Not reported
Taco Desc:	Not reported
Site Name:	Not reported
Document Desc:	Not reported
Document Received:	Not reported
Response Type:	Not reported
Response Mailed:	Not reported
Site Name:	Not reported

22
NW
1/2-1
2855 ft.
Higher

URBANA AND CHAMPAIGN GAS & ELECTRIC CO. POWER AND
CHAMPAIGN ST.
CHAMPAIGN, IL 61820

Coal Gas

G000001009
N/A

COAL GAS SITE DESCRIPTION:
1892 site is on the eastern side of Champaign between E. Eureka and North St. S from the eastern end of Tremont St. Illinois Central Railroad runs through site

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23
ESE
1/2-1
3483 ft.
Higher

ALMA MASON
1021 WEST MAIN STREET
URBANA, IL 61801

SRP

S104780100
N/A

SRP:

IL EPA Id :	0191055097
US EPA Id :	Not reported
Remediation Applicant Co :	University of Illinois at Urbana-Champaign
Remediation Applicant Title :	Mr.
Contact First Name:	Jeffrey
Contact Last Name :	Schrader
Contact Address :	101 South Gregory Drive
Contact Address:	101 South Gregory Drive Urbana, IL, 61801
Contact Phone :	2173339297
Date Enrolled :	10/04/2000
Consultant Company :	Hanson Engineers
Point Of Contact :	Curt Krueger, P.E.
Consultant Address:	1525 South 6th Street Springfield, IL, 62703
Consultant Phone :	(217) 788-2450
Proj Mgr Assigned :	Crompton
Sec. 4 Letter Date :	/ /
No Further Remediation Letter Dt :	04/10/2001
NFR Recorded :	04/20/2001
Active :	False
Total Acres :	0.07000

24
SW
1/2-1
4109 ft.
Higher

PORTER PROPERTY
405 SOUTH NEIL STREET
CHAMPAIGN, IL 61820

SRP

S105151659
N/A

SRP:

IL EPA Id :	0190105312
US EPA Id :	Not reported
Remediation Applicant Co :	Not reported
Remediation Applicant Title :	Mr.
Contact First Name:	Richard
Contact Last Name :	Porter
Contact Address :	4504 Crossgate Drive
Contact Address:	4504 Crossgate Drive Champaign, IL, 61822
Contact Phone :	2173511685
Date Enrolled :	08/31/2001
Consultant Company :	HDC Engineering, Inc.

PORTER PROPERTY (Continued) **S105151659**

Point Of Contact :	Kevin Saylor
Consultant Address:	201 West Springfield Avenue Suite 300 Champaign, IL, 61824
Consultant Phone :	(217) 352-6976
Proj Mgr Assigned :	Hall
Sec. 4 Letter Date :	/ /
No Further Remediation Letter Dt :	04/01/2002
NFR Recorded :	05/07/2002
Active :	False
Total Acres :	0.20000

25
WSW
1/2-1
4351 ft.
Higher

CHRISTIE CLINIC **SRP** **S104491175**
101 SOUTH STATE STREET **N/A**
CHAMPAIGN, IL 61820

SRP:

IL EPA Id :	0190105228
US EPA Id :	Not reported
Remediation Applicant Co :	First Mutual Bank S.B.
Remediation Applicant Title :	Mr.
Contact First Name:	Philip
Contact Last Name :	Duffy
Contact Address :	135 East Main Street
Contact Address:	135 East Main Street Decatur, IL, 62523
Contact Phone :	(217) 429-2306
Date Enrolled :	09/11/1996
Consultant Company :	KELRON Environmental
Point Of Contact :	Barbra Irwin
Consultant Address:	1213 Dorchester Drive Champaign, IL, 61821
Consultant Phone :	(217) 355-1349
Proj Mgr Assigned :	NA
Sec. 4 Letter Date :	09/26/1996
No Further Remediation Letter Dt :	/ /
NFR Recorded :	/ /
Active :	False
Total Acres :	0.44000

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHAMPAIGN	S103686729	LOEWEN GROUP INTERNATIONAL, INC.	RT. 50	61820	LUST
CHAMPAIGN	1004477122	UNIV. OF ILLINOIS - CHAMPAIGN/URBANA	354 ADMINISTRATION BUILDING	61820	FINDS
CHAMPAIGN	97406042	CHAMPAIGN RAILYARD MILE POST 128	CHAMPAIGN RAILYARD MILE POST 128		ERNS
CHAMPAIGN	1001201880	ILDOT STA 1219 0 14	FAI RTE 74 IL CENTRAL RR	61820	RCRIS-SQG, FINDS
CHAMPAIGN	1004480155	GENERAL SERVICES - CHAMPAIGN REG. BLDG.	2125 SOUTH FIRST STREET	61820	FINDS
CHAMPAIGN	1004474209	ILLINOIS POWER CO - CHAMPAIGN PROPANE PL	GRIFFITH LANE	61820	FINDS
CHAMPAIGN	S104189566	URBANA & CHAMPAIGN SANITARY DIST.	1401 A INTERSTATE	61820	LUST
CHAMPAIGN	S103291926	CAMP FARM MANAGEMENT INC.	7103 NORTH MATTIS	61820	LUST
CHAMPAIGN	U001141558	FORMER SITE STATION 74	1510 NEIL ST	61820	UST
CHAMPAIGN	S105428005	ROCKET MOTOR FREIGHT (AMOCO OIL CO.	601 NORTH NEIL	61820	LUST
CHAMPAIGN	1003870273	CHAMPAIGN MUNICIPAL	1/3MI E OF JCT US 150 & I-57	61801	CERC-NFRAP
CHAMPAIGN	1004480137	U S GSA - FEDERAL BLDG CHAMPAIGN	RANDOLPH AND CHURCH STS	61820	FINDS
CHAMPAIGN	1004474961	URBANA CHAMPAIGN S D SW	2404 SOUTH RISING ROAD	61820	FINDS
CHAMPAIGN	2000545585	SOUTHSIDE OF CHAMPAIGN	SOUTHSIDE OF CHAMPAIGN		ERNS
URBANA	U001132990	WINGFIELD DISTRIBUTORS INC	RR 1 BOX 137 STATE RT 45	61801	UST
URBANA	S103292022	LEE, HARLAN	R.R. 1, RD. 185 NORTH	61801	LUST
URBANA	S103292021	JR SCHUGEL TRUCKING INC.	RT. 45 NORTH	61801	LUST
URBANA	S104001959	CHAS LEVY CO.	U.S. 45 NORTH	61801	LUST
URBANA	S104524128	LEE, HARLAN	RT. 45 NORTH / I-74	61801	LUST
URBANA	U000855541	L & L SALES & SER INC	RT 45 NORTH RD 1850 NORTH	61801	UST
URBANA	S103292017	CHAMPAIGN/URBANA MASTRANSIT CO.	106 SOUTH CHESTNUT ST.	61801	LUST
URBANA	1001201874	ILDOT STA 321 62 12	FAI RTE 74 CUNNINGHAM AVE	61801	RCRIS-SQG, FINDS
URBANA	1003870274	CHAMPAIGN MUNICIPAL #1	1210 E UNIVERSITY AVE	61801	CERC-NFRAP
URBANA	1004477077	EMULSICOAT INC	705 E UNIVERSITY AVE	61801	RCRIS-SQG, FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/22/02
Date Made Active at EDR: 06/21/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02
Elapsed ASTM days: 46
Date of Last EDR Contact: 05/06/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 02/26/02
Date Made Active at EDR: 06/21/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02
Elapsed ASTM days: 46
Date of Last EDR Contact: 05/06/02

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/12/02
Date Made Active at EDR: 06/03/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 06/24/02

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 02/14/02
Date Made Active at EDR: 06/03/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 06/24/02

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/02/02
Date Made Active at EDR: 07/15/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 06/10/02

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/10/02
Date Made Active at EDR: 07/15/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 06/20/02
Elapsed ASTM days: 25
Date of Last EDR Contact: 06/20/02

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/01
Date Made Active at EDR: 07/15/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/02/02
Elapsed ASTM days: 13
Date of Last EDR Contact: 04/29/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/99
Database Release Frequency: Biennially

Date of Last EDR Contact: 06/17/02
Date of Next Scheduled EDR Contact: 09/16/02

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision
Source: EPA
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 07/09/02
Date of Next Scheduled EDR Contact: 10/07/02

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/22/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/02
Date of Next Scheduled EDR Contact: 08/05/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/21/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 06/05/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 05/28/02
Date of Next Scheduled EDR Contact: 08/26/02

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-564-3887
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/01/02
Database Release Frequency: Annually
Date of Last EDR Contact: 05/14/02
Date of Next Scheduled EDR Contact: 08/12/02

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/99
Database Release Frequency: Annually
Date of Last EDR Contact: 06/24/02
Date of Next Scheduled EDR Contact: 09/23/02

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-5521
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 01/14/02
Database Release Frequency: Quarterly
Date of Last EDR Contact: 07/03/02
Date of Next Scheduled EDR Contact: 09/23/02

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/25/02
Database Release Frequency: Quarterly
Date of Last EDR Contact: 07/03/02
Date of Next Scheduled EDR Contact: 09/23/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF ILLINOIS ASTM STANDARD RECORDS

SHWS: State Oversight List
Source: Illinois Environmental Protection Agency
Telephone: 217-524-4863
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/01/02
Date Made Active at EDR: 03/20/02
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 03/08/02
Elapsed ASTM days: 12
Date of Last EDR Contact: 05/29/02

SWF/LF: Available Disposal for Solid Waste in Illinois - Solid Waste Landfills Subject to State Surcharge
Source: Illinois Environmental Protection Agency
Telephone: 217-785-8604
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/01/02
Date Made Active at EDR: 04/23/02
Database Release Frequency: Annually
Date of Data Arrival at EDR: 03/08/02
Elapsed ASTM days: 46
Date of Last EDR Contact: 05/29/02

LUST: Leaking Underground Storage Tank Sites
Source: Illinois Environmental Protection Agency
Telephone: 217-782-6760
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 05/24/02
Date Made Active at EDR: 06/12/02
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 05/28/02
Elapsed ASTM days: 15
Date of Last EDR Contact: 02/25/02

UST: Underground Storage Tank Facility List
Source: Illinois State Fire Marshal
Telephone: 217-785-0969
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/11/02
Date Made Active at EDR: 06/21/02
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 06/11/02
Elapsed ASTM days: 10
Date of Last EDR Contact: 02/25/02

IMPDMENT: Surface Impoundment Inventory
Source: Illinois Waste Management & Research Center
Telephone: 217-333-8940
Statewide inventory of industrial, municipal, mining, oil & gas , and large agricultural impoundment. This study was conducted by the Illinois EPA to assess potentail for contamination of shallow aquifers. This was a one-time study. Although many of the impoundments may no longer be present, the sites may be contaminated.

Date of Government Version: 12/31/80
Date Made Active at EDR: 06/03/02
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 03/08/02
Elapsed ASTM days: 87
Date of Last EDR Contact: 02/20/02

CAT: Category List
Source: Illinois EPA
Telephone: N/A
Sites on this list are: Notice of Response Action, NPL, Pre/proposed NPL, Completed Remedial Action, Site Remediation Program, Federal Facilities, and Cleanup Started and/or Completed Sites.

Date of Government Version: 06/01/97
Date Made Active at EDR: 08/14/97
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 07/07/97
Elapsed ASTM days: 38
Date of Last EDR Contact: 02/26/01

STATE OF ILLINOIS ASTM SUPPLEMENTAL RECORDS

SRP: Site Remediation Program Database
Source: Illinois Environmental Protection Agency
Telephone: 217-785-9407
The database identifies the status of all voluntary remediation projects administered through the pre-notice site cleanup program (1989 to 1995) and the site remediation program (1996 to the present).

Date of Government Version: 05/17/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/02
Date of Next Scheduled EDR Contact: 08/19/02

IL NIPC: Solid Waste Landfill Inventory
Source: Northeastern Illinois Planning Commission
Telephone: 312-454-0400
Solid Waste Landfill Inventory. NIPC is an inventory of active and inactive solid waste disposal sites, based on state, local government and historical archive data. Included are numerous sites which previously had never been identified largely because there was no obligation to register such sites prior to 1971.

Date of Government Version: 08/01/88
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/11/97
Date of Next Scheduled EDR Contact: N/A

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

IP CHAMPAIGN, FORMER MGP
308 NORTH FIFTH STREET
CHAMPAIGN, IL 61820

TARGET PROPERTY COORDINATES

Latitude (North):	40.119400 - 40° 7' 9.8"
Longitude (West):	88.231796 - 88° 13' 54.5"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	395033.1
UTM Y (Meters):	4441526.5

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2440088-A2 URBANA, IL
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General East

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
CHAMPAIGN, IL	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
URBANA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	2.0 miles
Status:	Not found

AQUIFLOW®

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	Stratifed Sequence
System:	Pennsylvanian		
Series:	Atokan and Morrowan Series		
Code:	PP1 *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Amdt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: FLANAGAN

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information

	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.10
2	18 inches	45 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
3	45 inches	60 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silty clay loam

Surficial Soil Types: silty clay loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: stratified
silt loam

silty clay loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
K50	400734088132601	1/2 - 1 Mile NE
K51	400734088132601	1/2 - 1 Mile NE
M53	400736088132701	1/2 - 1 Mile NE
M54	400736088132701	1/2 - 1 Mile NE
K59	400734088132201	1/2 - 1 Mile NE
K60	400734088132201	1/2 - 1 Mile NE
M61	400737088132601	1/2 - 1 Mile NE
M62	400737088132601	1/2 - 1 Mile NE
M65	400740088133001	1/2 - 1 Mile NNE
M66	400740088133001	1/2 - 1 Mile NNE
M67	400737088132301	1/2 - 1 Mile NE
M68	400737088132301	1/2 - 1 Mile NE
M70	400737088131901	1/2 - 1 Mile NE
M71	400737088131901	1/2 - 1 Mile NE
O82	400738088131501	1/2 - 1 Mile NE
O83	400738088131501	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I52	IL0001594	1/2 - 1 Mile WSW

Note: PWS System location is not always the same as well location.

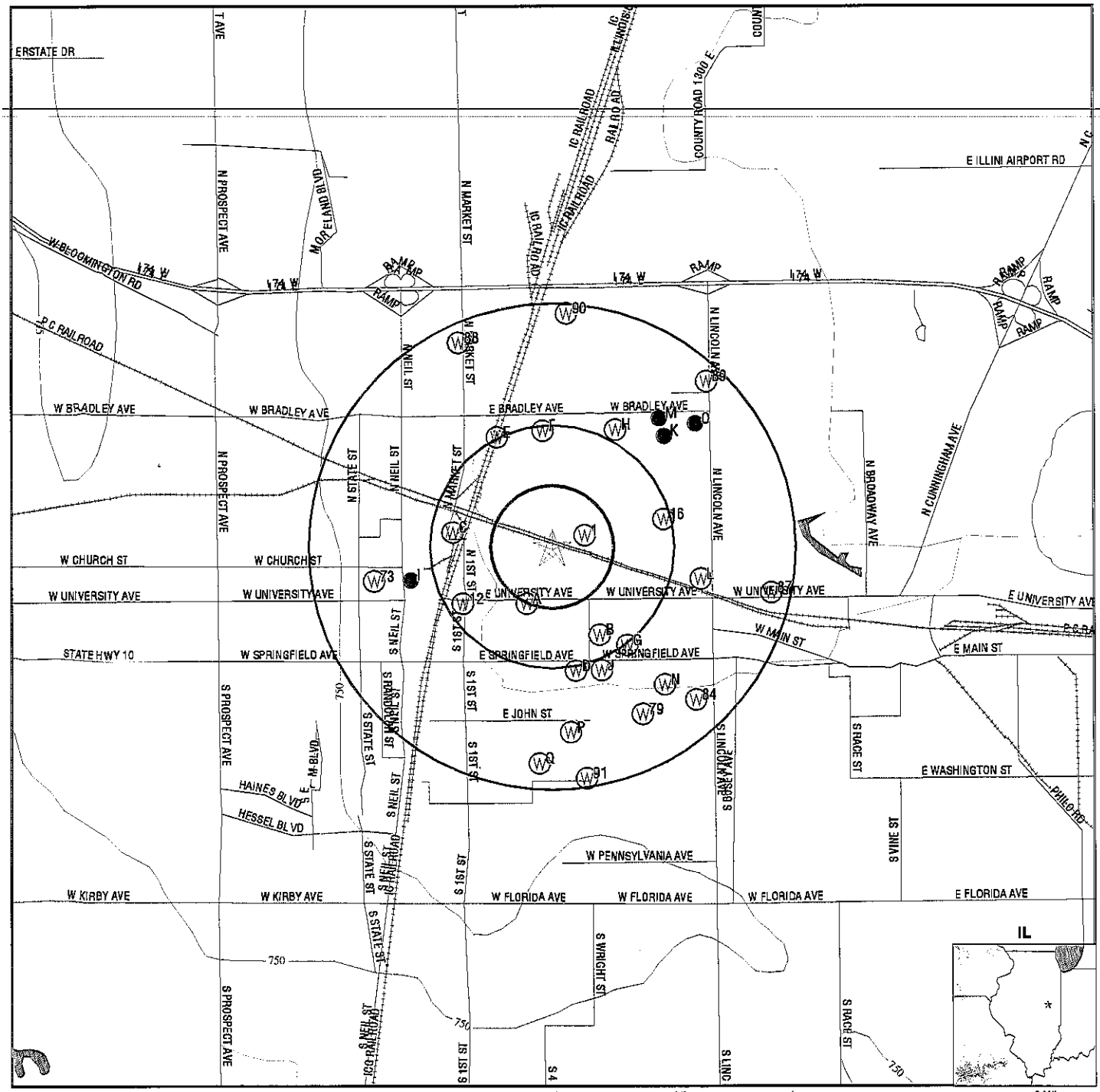
STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	GIL00011635	1/8 - 1/4 Mile ENE
A2	GIL00012348	1/4 - 1/2 Mile SW
A3	GIL00012349	1/4 - 1/2 Mile SSW
B4	GIL00009385	1/4 - 1/2 Mile SE
C5	GIL00012308	1/4 - 1/2 Mile West
C6	GIL00012309	1/4 - 1/2 Mile West
B7	GIL00009383	1/4 - 1/2 Mile SSE
B8	GIL00009386	1/4 - 1/2 Mile SSE
B9	GIL00009387	1/4 - 1/2 Mile SSE
B10	GIL00009384	1/4 - 1/2 Mile SSE
B11	GIL00009388	1/4 - 1/2 Mile SSE
12	GIL00009370	1/4 - 1/2 Mile WSW
C13	GIL00009360	1/4 - 1/2 Mile West
C14	GIL00009359	1/4 - 1/2 Mile WNW
D15	GIL00009391	1/4 - 1/2 Mile South
16	GIL00009377	1/4 - 1/2 Mile ENE
E17	GIL00012347	1/4 - 1/2 Mile NNW
F18	GIL00011641	1/4 - 1/2 Mile North
F19	GIL00011637	1/4 - 1/2 Mile North
F20	GIL00011642	1/4 - 1/2 Mile North
F21	GIL00011633	1/4 - 1/2 Mile North
F22	GIL00009685	1/4 - 1/2 Mile North
G23	GIL00011632	1/2 - 1 Mile SE
G24	GIL00009547	1/2 - 1 Mile SE
G25	GIL00011644	1/2 - 1 Mile SE
E26	GIL00009981	1/2 - 1 Mile NW
D27	GIL00009393	1/2 - 1 Mile SSE
E28	GIL00009372	1/2 - 1 Mile NW
E29	GIL00011639	1/2 - 1 Mile NNW
E30	GIL00011638	1/2 - 1 Mile NNW
E31	GIL00011634	1/2 - 1 Mile NNW
E32	GIL00011636	1/2 - 1 Mile NNW
E33	GIL00011640	1/2 - 1 Mile NNW
D34	GIL00009396	1/2 - 1 Mile South
D35	GIL00009395	1/2 - 1 Mile South
H36	GIL00009379	1/2 - 1 Mile NNE
G37	GIL00012663	1/2 - 1 Mile SSE
I38	GIL00011366	1/2 - 1 Mile West
J39	GIL00009731	1/2 - 1 Mile SSE
J40	GIL00009728	1/2 - 1 Mile SSE
J41	GIL00009394	1/2 - 1 Mile SSE
J42	GIL00009133	1/2 - 1 Mile SSE
K43	GIL00009687	1/2 - 1 Mile NE
H44	GIL00009380	1/2 - 1 Mile NE
I45	GIL00009357	1/2 - 1 Mile WSW
I46	GIL00009358	1/2 - 1 Mile WSW
D47	GIL00009371	1/2 - 1 Mile South
L48	GIL00009378	1/2 - 1 Mile ESE
K49	GIL00009389	1/2 - 1 Mile NE
L55	GIL00009686	1/2 - 1 Mile ESE
I56	GIL00010181	1/2 - 1 Mile West
K57	GIL00009684	1/2 - 1 Mile NE

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
K58	GIL00009382	1/2 - 1 Mile NE
K63	GIL00009376	1/2 - 1 Mile NE
N64	GIL00009392	1/2 - 1 Mile SE
K69	GIL00009688	1/2 - 1 Mile NE
M72	GIL00009373	1/2 - 1 Mile NE
73	GIL00009666	1/2 - 1 Mile West
O74	GIL00009374	1/2 - 1 Mile NE
O75	GIL00009381	1/2 - 1 Mile NE
P76	GIL00011648	1/2 - 1 Mile South
P77	GIL00011647	1/2 - 1 Mile South
P78	GIL00011649	1/2 - 1 Mile South
79	GIL00009138	1/2 - 1 Mile SSE
N80	GIL00011651	1/2 - 1 Mile SE
O81	GIL00009375	1/2 - 1 Mile NE
84	GIL00012370	1/2 - 1 Mile SE
Q85	GIL00011645	1/2 - 1 Mile South
Q86	GIL00011646	1/2 - 1 Mile South
87	GIL00012350	1/2 - 1 Mile ESE
88	GIL00009369	1/2 - 1 Mile NNW
89	GIL00009368	1/2 - 1 Mile NE
90	GIL00010238	1/2 - 1 Mile North
91	GIL00012367	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 815413.1s



- Major Roads
- Contour Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons
- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological Data

TARGET PROPERTY:	IP Champaign, Former MGP	CUSTOMER:	Philip Services Corporation
ADDRESS:	308 North Fifth Street	CONTACT:	Barb Bruss
CITY/STATE/ZIP:	Champaign IL 61820	INQUIRY #:	815413.1s
LAT/LONG:	40.1194 / 88.2318	DATE:	July 17, 2002 11:07 am

Map ID Direction Distance Elevation				Database	EDR ID Number
1 **ENE** **1/8 - 1/4 Mile** **Higher**				**IL WELLS**	**GIL00011635**
Info Source:	IL Geological Survey				
API ID:	120192353800	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3353474	Y Coord:	2584555		
A2 **SW** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00012348**
Info Source:	IL Geological Survey				
API ID:	120192432900	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3351996	Y Coord:	2583217		
A3 **SSW** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00012349**
Info Source:	IL Geological Survey				
API ID:	120192433000	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3352496	Y Coord:	2582905		
B4 **SE** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00009385**
Info Source:	IL Geological Survey				
API ID:	120190045900	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3353849	Y Coord:	2582946		
C5 **West** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00012308**
Info Source:	IL Geological Survey				
API ID:	120192428800	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3350766	Y Coord:	2584478		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
C6 **West** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**GIL00012309**

Info Source:	IL Geological Survey		
API ID:	120192428900	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3350766	Y Coord:	2584478

	Database	EDR ID Number
B7 **SSE** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**GIL00009383**

Info Source:	IL Geological Survey		
API ID:	120190045700	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3353631	Y Coord:	2582318

	Database	EDR ID Number
B8 **SSE** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**GIL00009386**

Info Source:	IL Geological Survey		
API ID:	120190046000	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3353863	Y Coord:	2582299

	Database	EDR ID Number
B9 **SSE** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**GIL00009387**

Info Source:	IL Geological Survey		
API ID:	120190046100	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3353863	Y Coord:	2582299

	Database	EDR ID Number
B10 **SSE** **1/4 - 1/2 Mile** **Higher**	**IL WELLS**	**GIL00009384**

Info Source:	IL Geological Survey		
API ID:	120190045800	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3353863	Y Coord:	2582299

Map ID Direction Distance Elevation				Database	EDR ID Number
B11 **SSE** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00009388**
Info Source:	IL Geological Survey				
API ID:	120190046200	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3353863	Y Coord:	2582299		
12 **WSW** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00009370**
Info Source:	IL Geological Survey				
API ID:	120190044300	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3350864	Y Coord:	2583042		
C13 **West** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00009360**
Info Source:	IL Geological Survey				
API ID:	120190040400	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3350476	Y Coord:	2584482		
C14 **WNW** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00009359**
Info Source:	IL Geological Survey				
API ID:	120190040300	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3350507	Y Coord:	2584873		
D15 **South** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00009391**
Info Source:	IL Geological Survey				
API ID:	120190047400	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3353138	Y Coord:	2581852		

Map ID Direction Distance Elevation				Database	EDR ID Number
16 **ENE** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00009377**
Info Source:	IL Geological Survey				
API ID:	120190045100	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3355160	Y Coord:	2584927		
E17 **NNW** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00012347**
Info Source:	IL Geological Survey				
API ID:	120192432800	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3351537	Y Coord:	2586497		
F18 **North** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00011641**
Info Source:	IL Geological Survey				
API ID:	120192354400	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3352406	Y Coord:	2586795		
F19 **North** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00011637**
Info Source:	IL Geological Survey				
API ID:	120192354000	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3352406	Y Coord:	2586795		
F20 **North** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00011642**
Info Source:	IL Geological Survey				
API ID:	120192354500	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3352406	Y Coord:	2586795		

Map ID Direction Distance Elevation				Database	EDR ID Number
F21 **North** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00011633**
Info Source:	IL Geological Survey				
API ID:	120192353600	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3352406	Y Coord:	2586795		
F22 **North** **1/4 - 1/2 Mile** **Higher**				**IL WELLS**	**GIL00009685**
Info Source:	IL Geological Survey				
API ID:	120190100700	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3353084	Y Coord:	2586813		
G23 **SE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00011632**
Info Source:	IL Geological Survey				
API ID:	120192353500	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3354539	Y Coord:	2582320		
G24 **SE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009547**
Info Source:	IL Geological Survey				
API ID:	120190080800	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3354539	Y Coord:	2582320		
G25 **SE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00011644**
Info Source:	IL Geological Survey				
API ID:	120192354700	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3354539	Y Coord:	2582320		

Map ID Direction Distance Elevation				Database	EDR ID Number
E26 **NW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009981**
Info Source:	IL Geological Survey				
API ID:	120190142000	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3351136	Y Coord:	2586387		
D27 **SSE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009393**
Info Source:	IL Geological Survey				
API ID:	120190047600	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3353705	Y Coord:	2581803		
E28 **NW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009372**
Info Source:	IL Geological Survey				
API ID:	120190044500	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3351120	Y Coord:	2586386		
E29 **NNW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00011639**
Info Source:	IL Geological Survey				
API ID:	120192354200	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3351728	Y Coord:	2586778		
E30 **NNW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00011638**
Info Source:	IL Geological Survey				
API ID:	120192354100	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3351728	Y Coord:	2586778		

Map ID Direction Distance Elevation				Database	EDR ID Number
E31 **NNW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00011634**
Info Source:	IL Geological Survey				
API ID:	120192353700	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3351728	Y Coord:	2586778		
E32 **NNW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00011636**
Info Source:	IL Geological Survey				
API ID:	120192353900	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3351728	Y Coord:	2586778		
E33 **NNW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00011640**
Info Source:	IL Geological Survey				
API ID:	120192354300	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3351728	Y Coord:	2586778		
D34 **South** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009396**
Info Source:	IL Geological Survey				
API ID:	120190047900	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3353201	Y Coord:	2581621		
D35 **South** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009395**
Info Source:	IL Geological Survey				
API ID:	120190047800	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3353201	Y Coord:	2581621		

Map ID Direction Distance Elevation				Database	EDR ID Number
H36 **NNE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009379**
Info Source:	IL Geological Survey				
API ID:	120190045300	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3353762	Y Coord:	2586831		
G37 **SSE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00012663**
Info Source:	IL Geological Survey				
API ID:	120192467300	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3354043	Y Coord:	2581813		
I38 **West** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00011366**
Info Source:	IL Geological Survey				
API ID:	120192306900	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3350013	Y Coord:	2583710		
J39 **SSE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009731**
Info Source:	IL Geological Survey				
API ID:	120190106300	Group Number:	31		
Well Type:	Water Well - Plugged	Boring:	0		
X Coord:	3353877	Y Coord:	2581641		
J40 **SSE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009728**
Info Source:	IL Geological Survey				
API ID:	120190106000	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3353877	Y Coord:	2581641		

Map ID Direction Distance Elevation				Database	EDR ID Number
J41 **SSE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009394**
Info Source:	IL Geological Survey				
API ID:	120190047700	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3353877	Y Coord:	2581641		
J42 **SSE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009133**
Info Source:	IL Geological Survey				
API ID:	120190000300	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3353877	Y Coord:	2581641		
K43 **NE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009687**
Info Source:	IL Geological Survey				
API ID:	120190100900	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3355132	Y Coord:	2586220		
H44 **NE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009380**
Info Source:	IL Geological Survey				
API ID:	120190045400	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3354440	Y Coord:	2586849		
I45 **WSW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009357**
Info Source:	IL Geological Survey				
API ID:	120190040000	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3349812	Y Coord:	2583479		

Map ID Direction Distance Elevation				Database	EDR ID Number
I46 **WSW** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009358**
Info Source:	IL Geological Survey				
API ID:	120190040100	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3349812	Y Coord:	2583479		
D47 **South** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009371**
Info Source:	IL Geological Survey				
API ID:	120190044400	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3353348	Y Coord:	2581209		
L48 **ESE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009378**
Info Source:	IL Geological Survey				
API ID:	120190045200	Group Number:	31		
Well Type:	Water Well Test Hole	Boring:	0		
X Coord:	3355864	Y Coord:	2583654		
K49 **NE** **1/2 - 1 Mile** **Higher**				**IL WELLS**	**GIL00009389**
Info Source:	IL Geological Survey				
API ID:	120190046300	Group Number:	31		
Well Type:	Water Well	Boring:	0		
X Coord:	3354809	Y Coord:	2586847		
K50 **NE** **1/2 - 1 Mile** **Higher**				**FED USGS**	**400734088132601**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1937	County:	Champaign
Altitude:	740.00 ft.	State:	Illinios
Well Depth:	218.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	140.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06011937	Prim. Use of Water:	Public supply

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
K51 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**400734088132601**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1937	County:	Champaign
Altitude:	740.00 ft.	State:	Illinios
Well Depth:	218.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	140.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06011937	Prim. Use of Water:	Public supply

	Database	EDR ID Number
I52 **WSW** **1/2 - 1 Mile** **Higher**	**FRDS PWS**	**IL0001594**

PWS ID:	IL0001594	PWS Status:	Active
Date Initiated:	June / 77	Date Deactivated:	Not Reported
PWS Name:	CAMP KIWANIS R R MAHOMET, IL 61820		
Addressee / Facility:	Not Reported		
Facility Latitude:	40 06 59	Facility Longitude:	088 14 35
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	25

PWS currently has or had major violation(s) or enforcement: No

---

	Database	EDR ID Number
M53 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**400736088132701**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1946	County:	Champaign
Altitude:	743.00 ft.	State:	Illinios
Well Depth:	217.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	165.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06011946	Prim. Use of Water:	Public supply

	Database	EDR ID Number
M54 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**400736088132701**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1946	County:	Champaign
Altitude:	743.00 ft.	State:	Illinios
Well Depth:	217.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	165.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06011946	Prim. Use of Water:	Public supply

Map ID / Direction / Distance / Elevation	Database	EDR ID Number

L55
ESE
1/2 - 1 Mile
Higher

IL WELLS **GIL00009686**

Info Source:	IL Geological Survey		
API ID:	120190100800	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3356103	Y Coord:	2583644

I56
West
1/2 - 1 Mile
Higher

IL WELLS **GIL00010181**

Info Source:	IL Geological Survey		
API ID:	120192167900	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3349391	Y Coord:	2583836

K57
NE
1/2 - 1 Mile
Higher

IL WELLS GIL00009684

Info Source:	IL Geological Survey		
API ID:	120190100600	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355118	Y Coord:	2586867

K58
NE
1/2 - 1 Mile
Higher

IL WELLS **GIL00009382**

Info Source:	IL Geological Survey		
API ID:	120190045600	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355118	Y Coord:	2586867

K59
NE
1/2 - 1 Mile
Higher

FED USGS **400734088132201**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1928	County:	Champaign
Altitude:	743.00 ft.	State:	Illinios
Well Depth:	224.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	143.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	11011928	Prim. Use of Water:	Public supply

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
K60 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**400734088132201**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1928	County:	Champaign
Altitude:	743.00 ft.	State:	Illinios
Well Depth:	224.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	143.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	11011928	Prim. Use of Water:	Public supply

M61 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**400737088132601**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1921	County:	Champaign
Altitude:	743.00 ft.	State:	Illinios
Well Depth:	208.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	106.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01011921	Prim. Use of Water:	Public supply

M62 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**400737088132601**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1921	County:	Champaign
Altitude:	743.00 ft.	State:	Illinios
Well Depth:	208.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	106.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	01011921	Prim. Use of Water:	Public supply

K63 **NE** **1/2 - 1 Mile** **Higher**	**IL WELLS**	**GIL00009376**

Info Source:	IL Geological Survey		
API ID:	120190045000	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355463	Y Coord:	2586552

N64 **SE** **1/2 - 1 Mile** **Higher**	**IL WELLS**	**GIL00009392**

Info Source:	IL Geological Survey		
API ID:	120190047500	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3355229	Y Coord:	2581682

M65
NNE
1/2 - 1 Mile
Higher

FED USGS **400740088133001**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1938	County:	Champaign
Altitude:	740.00 ft.	State:	Illinios
Well Depth:	225.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	146.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	12011938	Prim. Use of Water:	Public supply

M66
NNE
1/2 - 1 Mile
Higher

FED USGS **400740088133001**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1938	County:	Champaign
Altitude:	740.00 ft.	State:	Illinios
Well Depth:	225.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	146.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	12011938	Prim. Use of Water:	Public supply

M67
NE
1/2 - 1 Mile
Higher

FED USGS **400737088132301**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1946	County:	Champaign
Altitude:	743.00 ft.	State:	Illinios
Well Depth:	207.10 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	163.20 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06011946	Prim. Use of Water:	Public supply

M68
NE
1/2 - 1 Mile
Higher

FED USGS **400737088132301**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1946	County:	Champaign
Altitude:	743.00 ft.	State:	Illinios
Well Depth:	207.10 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	163.20 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	06011946	Prim. Use of Water:	Public supply

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
K69 **NE** **1/2 - 1 Mile** **Higher**	**IL WELLS**	**GIL00009688**

Info Source:	IL Geological Survey		
API ID:	120190101000	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355556	Y Coord:	2586802

	Database	EDR ID Number
M70 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**400737088131901**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1941	County:	Champaign
Altitude:	740.00 ft.	State:	Illinios
Well Depth:	197.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	166.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	11011949	Prim. Use of Water:	Public supply

	Database	EDR ID Number
M71 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**400737088131901**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1941	County:	Champaign
Altitude:	740.00 ft.	State:	Illinios
Well Depth:	197.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	166.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	11011949	Prim. Use of Water:	Public supply

	Database	EDR ID Number
M72 **NE** **1/2 - 1 Mile** **Higher**	**IL WELLS**	**GIL00009373**

Info Source:	IL Geological Survey		
API ID:	120190044700	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355439	Y Coord:	2587129

	Database	EDR ID Number
73 **West** **1/2 - 1 Mile** **Higher**	**IL WELLS**	**GIL00009666**

Info Source:	IL Geological Survey		
API ID:	120190098500	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3348939	Y Coord:	2583502

O74
NE
1/2 - 1 Mile
Higher

IL WELLS **GIL00009374**

Info Source:	IL Geological Survey		
API ID:	120190044800	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3355795	Y Coord:	2586885

O75
NE
1/2 - 1 Mile
Higher

IL WELLS **GIL00009381**

Info Source:	IL Geological Survey		
API ID:	120190045500	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355795	Y Coord:	2586885

P76
South
1/2 - 1 Mile
Higher

IL WELLS **GIL00011648**

Info Source:	IL Geological Survey		
API ID:	120192355300	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3353228	Y Coord:	2580288

P77
South
1/2 - 1 Mile
Higher

IL WELLS **GIL00011647**

Info Source:	IL Geological Survey		
API ID:	120192355200	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3353228	Y Coord:	2580288

P78
South
1/2 - 1 Mile
Higher

IL WELLS **GIL00011649**

Info Source:	IL Geological Survey		
API ID:	120192355400	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3353228	Y Coord:	2580288

79
SSE
1/2 - 1 Mile
Higher

IL WELLS **GIL00009138**

Info Source:	IL Geological Survey		
API ID:	120190002300	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3354764	Y Coord:	2580703

N80
SE
1/2 - 1 Mile
Higher

IL WELLS **GIL00011651**

Info Source:	IL Geological Survey		
API ID:	120192355700	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355243	Y Coord:	2581012

O81
NE
1/2 - 1 Mile
Higher

IL WELLS **GIL00009375**

Info Source:	IL Geological Survey		
API ID:	120190044900	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355974	Y Coord:	2586888

O82
NE
1/2 - 1 Mile
Higher

FED USGS **400738088131501**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1927	County:	Champaign
Altitude:	745.00 ft.	State:	Illinios
Well Depth:	212.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	131.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	09011927	Prim. Use of Water:	Public supply

O83
NE
1/2 - 1 Mile
Higher

FED USGS **400738088131501**

BASIC WELL DATA

Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1927	County:	Champaign
Altitude:	745.00 ft.	State:	Illinios
Well Depth:	212.00 ft.	Topographic Setting:	Flat surface
Depth to Water Table:	131.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	09011927	Prim. Use of Water:	Public supply

84
SE
1/2 - 1 Mile
Higher

IL WELLS **GIL00012370**

Info Source:	IL Geological Survey		
API ID:	120192435200	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3355919	Y Coord:	2581031

Q85
South
1/2 - 1 Mile
Higher

IL WELLS **GIL00011645**

Info Source:	IL Geological Survey		
API ID:	120192355000	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3352564	Y Coord:	2579605

Q86
South
1/2 - 1 Mile
Higher

IL WELLS **GIL00011646**

Info Source:	IL Geological Survey		
API ID:	120192355100	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3352564	Y Coord:	2579605

87
ESE
1/2 - 1 Mile
Higher

IL WELLS **GIL00012350**

Info Source:	IL Geological Survey		
API ID:	120192433100	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3357518	Y Coord:	2583373

88
NNW
1/2 - 1 Mile
Higher

IL WELLS **GIL00009369**

Info Source:	IL Geological Survey		
API ID:	120190044200	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3350697	Y Coord:	2588675

89
NE
1/2 - 1 Mile
Higher

IL WELLS **GIL00009368**

Info Source:	IL Geological Survey		
API ID:	120190044000	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3356051	Y Coord:	2587915

90
North
1/2 - 1 Mile
Higher

IL WELLS **GIL00010238**

Info Source:	IL Geological Survey		
API ID:	120192175200	Group Number:	31
Well Type:	Water Well	Boring:	0
X Coord:	3353016	Y Coord:	2589336

91
South
1/2 - 1 Mile
Higher

IL WELLS **GIL00012367**

Info Source:	IL Geological Survey		
API ID:	120192434900	Group Number:	31
Well Type:	Water Well Test Hole	Boring:	0
X Coord:	3353586	Y Coord:	2579296

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for CHAMPAIGN County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CHAMPAIGN COUNTY, IL

Number of sites tested: 15

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.120 pCi/L	87%	13%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	5.453 pCi/L	60%	33%	7%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

County Well Data in Illinois: Cook and DuPage Counties
Source: Illinois State Geological Survey
Telephone: 217-244-2387

Illinois Private Well Database and PICS (Public, Industrial, Commercial Survey)
Source: Illinois State Water Survey
Telephone: 217-333-9043

Illinois State Geological Survey Water Wells
Source: Illinois State Geological Survey
Telephone: 217-333-5102
Point data set that shows locations, well type, and well ID for wells in Illinois. Data comes from driller's logs.

RADON

Area Radon Information
Source: EPA
Telephone: 303-236-1525
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 202-564-9370
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

APPENDIX C

Phase II Soil Analytical Data Sheets

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219787
	Complete 26-DEC-90	PO Number P0072488
	Printed 27-DEC-90	Sampled 04-DEC-90 12:00

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-01-01
SAMPLE LOCATION:: UTB-01 (21'-23')

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P130.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: S. GRAY Analysis Date: 18-DEC-90 Instrument: GFAA Test: M103.2. 0
Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ARSENIC	3.6	1.0	mg/kg

CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Analyst: M. SCROGHAM Analysis Date: 12-DEC-90 Test: P131.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471

Analyst: M. SCROGHAM Analysis Date: 13-DEC-90 Instrument: CVAA Test: M120.2. 0
Prep: CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P129.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M104.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
BARIUM	8.0	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M108.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	5.0	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M110.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CHROMIUM	7.0	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M112.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
COPPER	12	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
IRON	12000	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
LEAD	6.0	5.0	mg/kg

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
MANGANESE	520	1.0	mg/kg

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
NICKEL	11	1.0	mg/kg

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ZINC	41	2.0	mg/kg

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	5.2		Grams
FINAL VOLUME	1.0		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219787

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 15-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	78000	19000	ug/kg
ACENAPHTHYLENE	34000	19000	ug/kg
ANTHRACENE	56000	19000	ug/kg
BENZ(A)ANTHRACENE	30000	19000	ug/kg
BENZO(A)PYRENE	24000	19000	ug/kg
BENZO(B)FLUORANTHENE	20000	19000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	19000	ug/kg
BENZO(K)FLUORANTHENE	BDL	19000	ug/kg
BENZYL ALCOHOL	BDL	19000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	19000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	19000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	19000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	19000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	19000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	19000	ug/kg
CARBAZOLE	BDL	19000	ug/kg
4-CHLOROANILINE	BDL	19000	ug/kg
2-CHLORONAPHTHALENE	BDL	19000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	19000	ug/kg
CHRYSENE	34000	19000	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	19000	ug/kg
DIBENZOFURAN	24000	19000	ug/kg
1,2-DICHLOROBENZENE	BDL	19000	ug/kg
1,3-DICHLOROBENZENE	BDL	19000	ug/kg
1,4-DICHLOROBENZENE	BDL	19000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	39000	ug/kg
DIETHYLPHTHALATE	BDL	19000	ug/kg
DIMETHYLPHTHALATE	BDL	19000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	19000	ug/kg
DINITROBENZENES	BDL	19000	ug/kg
2,4-DINITROTOLUENE	BDL	19000	ug/kg
2,6-DINITROTOLUENE	BDL	19000	ug/kg
DI-N-OCTYLPHTHALATE	BDL	19000	ug/kg
FLUORANTHENE	60000	19000	ug/kg
FLUORENE	70000	19000	ug/kg
HEXACHLOROBENZENE	BDL	19000	ug/kg
HEXACHLOROBUTADIENE	BDL	19000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	19000	ug/kg
HEXACHLOROETHANE	BDL	19000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	19000	ug/kg
ISOPHORONE	BDL	19000	ug/kg
2-METHYLNAPHTHALENE	190000	19000	ug/kg
NAPHTHALENE	320000	19000	ug/kg
2-NITROANILINE	BDL	96000	ug/kg
3-NITROANILINE	BDL	96000	ug/kg
4-NITROANILINE	BDL	96000	ug/kg
NITROBENZENE	BDL	19000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	19000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	19000	ug/kg
PHENANTHRENE	160000	19000	ug/kg
2-PICOLINE	BDL	96000	ug/kg
PYRENE	74000	19000	ug/kg
PYRIDINE	BDL	96000	ug/kg
TETRACHLOROBENZENES	BDL	19000	ug/kg

Parameter	Result	Det. Limit	Units
TOLUENEDIAMINE	BDL	96000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	19000	ug/kg
BENZOIC ACID	BDL	96000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	19000	ug/kg
2-CHLOROPHENOL	BDL	19000	ug/kg
2,4-DICHLOROPHENOL	BDL	19000	ug/kg
2,4-DIMETHYLPHENOL	BDL	19000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	96000	ug/kg
2,4-DINITROPHENOL	BDL	96000	ug/kg
2-METHYLPHENOL	BDL	19000	ug/kg
4-METHYLPHENOL	BDL	19000	ug/kg
2-NITROPHENOL	BDL	19000	ug/kg
4-NITROPHENOL	BDL	96000	ug/kg
PENTACHLOROPHENOL	BDL	96000	ug/kg
PHENOL	BDL	19000	ug/kg
TETRACHLOROPHENOL	BDL	19000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	19000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	19000	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		
PHENOL-D5	*		
NITROBENZENE-D5	*		
2-FLUOROBIPHENYL	*		
2,4,6-TRIBROMOPHENOL	*		
TERPHENYL-D14	*		
DILUTION FACTOR 1:10			
ALSO DETECTED			
UNKNOWN	EST 200000 RT=3.23		
BENZENE(1-METHYLETHYL)	EST 46000 RT=5.68		
3-HEXENE-2,5-DIONE	EST 32000 RT=6.52		
1H-INDENE	EST 32000 RT=10.12		
1-METHYLNAPHTHALENE	EST 150000 RT=18.81		
NAPHTHALENE,1-ETHYL	EST 66000 RT=20.68		
NAPHTHALENE,DIMETHYL	EST 78000 RT=20.93		
NAPHTHALENE,DIMETHYL	EST 96000 RT=21.19		
NAPHTHALENE,DIMETHYL	EST 54000 RT=21.28		
NAPHTHALENE,DIMETHYL	EST 64000 RT=21.58		
NAPHTHALENE,TRIMETHYL	EST 48000 RT=23.53		
1H-PHENALENE	EST 58000 RT=23.88		
UNKNOWN	EST 78000 RT=24.79		
9H-FLUORENE,METHYL	EST 60000 RT=26.04		
PHENANTHRENE,4-METHYL	EST 62000 RT=28.88		
PHENANTHRENE,METHYL	EST 62000 RT=28.96		
ANTHRACENE,1-METHYL	EST 90000 RT=29.21		
ANTHRACENE,2-METHYL	EST 58000 RT=29.29		
PHENANTHRENE,9,10-DIMETHYL	EST 56000 RT=30.67		
UNKNOWN	EST 50000 RT=31.37		

*NOTE: * SURROGATES DILUTED OUT*

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 11-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	0.68	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	5.6	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	1.2	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	6.3	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	108		% Rec
TOLUENE-D8	115		% Rec
BROMOFLUOROBENZENE	117		% Rec
DILUTION FACTOR 1:63			

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219787

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

Sample Comments

** See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value
RT Retention Time

Sample chain of custody number 3401.

Quality Assurance Officer: GaBusch

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219792
	Complete 04-JAN-91	PO Number P0072488
	Printed 05-JAN-91	Sampled 04-DEC-90 12:10

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-01-02
SAMPLE LOCATION:: UTB-01 (27'-28')

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: J. MINNIEAR, II Analysis Date: 26-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 28-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	64		% Rec
PHENOL-D5	80		% Rec
NITROBENZENE-D5	82		% Rec
2-FLUOROBIPHENYL	75		% Rec
2,4,6-TRIBROMOPHENOL	18		% Rec
TERPHENYL-D14	71		% Rec

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 17-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	105		% Rec
TOLUENE-D8	116		% Rec
BROMOFLUOROBENZENE	115		% Rec
DILUTION FACTOR 1:63			

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219792

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3401.

Quality Assurance Officer: _____

QUALITY ASSURANCE REPORT

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219792
	Complete 04-JAN-91	PO Number P0072488
	Printed 09-JAN-91	Sampled 04-DEC-90 12:10

Sample Description

SAMPLE NO.: UTB-01-02
SAMPLE LOCATION:: UTB-01 (27'-28')

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst : M. DONOFRIO — Analysis Date: 28-DEC-90 — Instrument: GC/MS SVOA — Test: 0505.3. 0
Reviewer: S. BROTHERTON — Review Date: 04-JAN-91 — File ID: >9282B — Run: R110431
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

QC Type	Identifier	Source	Parameter	True Value	Spike Val	Observed	Units	% Rec	% Diff
CCV	Q177965		See Attached Report g9273b.ind						
SAMPLE	A219792		See Certificate of Analysis						

VOLATILE ORGANICS SW846-8240

Analyst : A. WIDZISZ — Analysis Date: 17-DEC-90 — Instrument: GC/MS VOA — Test: 0510.3. 0
Reviewer: C. KOLANOWSKI — Review Date: 19-DEC-90 — File ID: >1432G — Run: R109361

QC Type	Identifier	Source	Parameter	True Value	Spike Val	Observed	Units	% Rec	% Diff
DPS01	Q170724	A220062	1,1-DICHLOROETHENE	0.00	3.2	2.9	mg/kg	91	6
DPS01	Q170724	A220062	TRICHLOROETHENE	0.00	3.2	3.1	mg/kg	97	3
DPS01	Q170724	A220062	BENZENE	0.00	3.2	3.4	mg/kg	106	6
DPS01	Q170724	A220062	TOLUENE	0.00	3.2	3.7	mg/kg	116	5
DPS01	Q170724	A220062	CHLOROBENZENE	0.00	3.2	3.7	mg/kg	116	5
SPI01	Q170723	A220062	1,1-DICHLOROETHENE	0.00	3.2	3.1	mg/kg	97	
SPI01	Q170723	A220062	TRICHLOROETHENE	0.00	3.2	3.2	mg/kg	100	
SPI01	Q170723	A220062	BENZENE	0.00	3.2	3.6	mg/kg	113	
SPI01	Q170723	A220062	TOLUENE	0.00	3.2	3.9	mg/kg	122	
SPI01	Q170723	A220062	CHLOROBENZENE	0.00	3.2	3.9	mg/kg	122	
CCV	Q170716		See Attached Report g1420g.ind						
BLA01	Q170717		See Attached Report g1421g.ind						
SAMPLE	A219792		See Certificate of Analysis						

PHENOLS 4AAP SW846-9066

Analyst : J. GRIFFIN — Analysis Date: 14-DEC-90 — Instrument: AUTO-ANALYZER — Test: 0405.7. 0
Reviewer: B. SHRAKE — Review Date: 17-DEC-90 — File ID: 319 — Run: R109274
Prep: PHENOLS DISTILLATION SW846-9065

QC Type	Identifier	Source	Parameter	True Value	Spike Val	Observed	Units	% Rec	% Diff
SAMPLE	A219792		See Certificate of Analysis						

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	01-DEC-90	A219237
	Complete 12-DEC-90	PO Number P0072488
	Printed 06-MAR-91	Sampled 29-NOV-90 14:00

Report To

ILLINOIS POWER COMPANY
WILLIAM WITTS
P.O. BOX 511
500 SOUTH 27TH STREET
DECATUR, IL 62525

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-03-01
DESCRIPTION: UTB-03 (11-13.5')

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH | Analysis Date: 03-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN | Analysis Date: 04-DEC-90 | Instrument: AUTO-ANALYZER | Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: C. BOYLE | Analysis Date: 03-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN | Analysis Date: 03-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0

Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

HYDROCARBON SCAN SW846-8000

Analyst: J. SMITH | Analysis Date: 06-DEC-90 | Instrument: GC/FID | Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	25	mg/kg
DIESEL FUEL	BDL	100	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY | Analysis Date: 06-DEC-90 | Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	BDL	10	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219237

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 10-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	0.45	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	96		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	102		% Rec
DILUTION FACTOR 1:63			

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: M. FRANK Analysis Date: 05-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219237

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 09-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	940	330	ug/kg
ACENAPHTHYLENE	390	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	530	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	EST 270	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	1200	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219237**

Parameter	Result	Det. Limit	Units
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	69		% Rec
PHENOL-D5	76		% Rec
NITROBENZENE-D5	77		% Rec
2-FLUOROBIPHENYL	76		% Rec
2,4,6-TRIBROMOPHENOL	38		% Rec
TERPHENYL-D14	90		% Rec

Sample Comments

ONE CONTAINER BROKEN IN TRANSIT...

BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 3400.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	01-DEC-90	A219238
	Complete 14-DEC-90	PO Number P0072488
	Printed 06-MAR-91	Sampled 29-NOV-90 15:00

Report To

ILLINOIS POWER COMPANY
WILLIAM WITTS
P.O. BOX 511
500 SOUTH 27TH STREET
DECATUR, IL 62525

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-03-02
DESCRIPTION: UTB-03 (18.5-23.5')

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH | Analysis Date: 03-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN | Analysis Date: 04-DEC-90 | Instrument: AUTO-ANALYZER | Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: C. BOYLE | Analysis Date: 03-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN | Analysis Date: 03-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

HYDROCARBON SCAN SW846-8000

Analyst: J. SMITH | Analysis Date: 06-DEC-90 | Instrument: GC/FID | Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	25	mg/kg
DIESEL FUEL	BDL	100	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY | Analysis Date: 06-DEC-90 | Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	70	10	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219238

VOLATILE ORGANICS SW846-8240

Analyst: T. WIEGAND Analysis Date: 05-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	0.41	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	108		% Rec
TOLUENE-D8	116		% Rec
BROMOFLUOROBENZENE	117		% Rec
DILUTION FACTOR 1:63			

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: M. FRANK Analysis Date: 05-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.7		Grams
FINAL VOLUME	1.0		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219238

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 10-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg

EMS HERITAGE LABORATORIES, INC.

Lab Sample ID: A219238

Parameter	Result	Det. Limit	Units
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	69		% Rec
PHENOL-D5	79		% Rec
NITROBENZENE-D5	81		% Rec
2-FLUOROBIPHENYL	84		% Rec
2,4,6-TRIBROMOPHENOL	73		% Rec
TERPHENYL-D14	98		% Rec
ALSO DETECTED			
UNKNOWN	RT=2.14		
UNKNOWN	RT=3.11		
UNKNOWN	RT=3.77		
UNKNOWN	RT=4.25		
UNKNOWN	RT=4.81		
UNKNOWN	RT=5.07		
UNKNOWN	RT=5.37		
UNKNOWN	RT=5.7		
(1-METHYLETHYL)BENZENE	RT=7.48		
UNKNOWN	RT=7.74		
UNKNOWN	RT=8.2		
UNKNOWN	RT=9.49		
UNKNOWN	RT=11.25		
UNKNOWN HYDROCARBON	RT=22.95		

Sample Comments

ONE CONTAINER BROKEN IN TRANSIT...

BDL Below Detection Limit
RT Retention Time

Sample chain of custody number 3400.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	01-DEC-90	A219235
	Complete 11-DEC-90	PO Number P0072488
	Printed 12-DEC-90	Sampled 28-NOV-90 15:30

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-08B-01
DESCRIPTION: UTB-08 (4-9')

PHENOLS DISTILLATION SW846-9065
Analyst: K. SMITH | Analysis Date: 03-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066
Analyst: J. GRIFFIN | Analysis Date: 04-DEC-90 | Instrument: AUTO-ANALYZER | Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010
Analyst: C. BOYLE | Analysis Date: 03-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN | Analysis Date: 03-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

HYDROCARBON SCAN SW846-8000
Analyst: J. SMITH | Analysis Date: 06-DEC-90 | Instrument: GC/FID | Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	25	mg/kg
DIESEL FUEL	BDL	100	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: S. MCCROTTY | Analysis Date: 06-DEC-90 | Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	36	10	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219235

VOLATILE ORGANICS SW846-8240

Analyst: T. WIEGAND Analysis Date: 03-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	117		% Rec
TOLUENE-D8	104		% Rec
BROMOFLUOROBENZENE	105		% Rec
DILUTION FACTOR 1:63			
ALSO DETECTED			
UNKNOWN	RT=23.54		
UNKNOWN	RT=27.96		
UNKNOWN	RT=29.36		
UNKNOWN	RT=31.96		
UNKNOWN	RT=33.57		

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219235

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: M. FRANK Analysis Date: 05-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.2		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 10-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219235**

Parameter	Result	Det. Limit	Units
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	69		% Rec
PHENOL-D5	82		% Rec
NITROBENZENE-D5	86		% Rec
2-FLUOROBIPHENYL	80		% Rec
2,4,6-TRIBROMOPHENOL	91		% Rec
TERPHENYL-D14	83		% Rec

Sample Comments

BDL Below Detection Limit
RT Retention Time

Sample chain of custody number 3400.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	01-DEC-90	A219236
	Complete 11-DEC-90	PO Number P0072488
	Printed 12-DEC-90	Sampled 28-NOV-90 16:00

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-08B-02
DESCRIPTION: UTB-08 (9-13')

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH | Analysis Date: 03-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN | Analysis Date: 04-DEC-90 | Instrument: AUTO-ANALYZER | Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: C. BOYLE | Analysis Date: 03-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN | Analysis Date: 03-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

HYDROCARBON SCAN SW846-8000

Analyst: J. SMITH | Analysis Date: 06-DEC-90 | Instrument: GC/FID | Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	25	mg/kg
DIESEL FUEL	BDL	100	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY | Analysis Date: 06-DEC-90 | Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	33	10	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: T. WIEGAND Analysis Date: 03-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	2.5	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	0.44	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	121		% Rec
TOLUENE-D8	111		% Rec
BROMOFLUOROBENZENE	110		% Rec
DILUTION FACTOR 1:63			

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: M. FRANK Analysis Date: 05-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.5		Grams
FINAL VOLUME	1.0		mL

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219236**

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 10-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219236**

Parameter	Result	Det. Limit	Units
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	71		% Rec
PHENOL-D5	75		% Rec
NITROBENZENE-D5	83		% Rec
2-FLUOROBIPHENYL	81		% Rec
2,4,6-TRIBROMOPHENOL	49		% Rec
TERPHENYL-D14	93		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3400.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	01-DEC-90	A219239
	Complete 14-DEC-90	PO Number P0072488
	Printed 06-MAR-91	Sampled 30-NOV-90 12:00

Report To

ILLINOIS POWER COMPANY
WILLIAM WITTS
P.O. BOX 511
500 SOUTH 27TH STREET
DECATUR, IL 62525

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-10-01
DESCRIPTION: UTB-10 (9-10')

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH Analysis Date: 03-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 04-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: C. BOYLE Analysis Date: 03-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 03-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

HYDROCARBON SCAN SW846-8000

Analyst: J. SMITH Analysis Date: 06-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	25	mg/kg
DIESEL FUEL	BDL	100	mg/kg

OTHER HYDROCARBONS DETECTED. CHROMATOGRAMS ATTACHED
AMENDED 12/17/90 DLP

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219239

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 06-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	140	10	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: T. WIEGAND Analysis Date: 03-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	3.2	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	3.1	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	127		% Rec
TOLUENE-D8	130		% Rec
BROMOFLUOROBENZENE	130		% Rec
DILUTION FACTOR 1:63			

NOTE: SAMPLE WAS RERUN WITH NO IMPROVEMENT IN SURROGATE RECOVERY

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: M. FRANK Analysis Date: 05-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.6		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 10-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	* 16000	16000	ug/kg
ACENAPHTHYLENE	5100	330	ug/kg
ANTHRACENE	* 18000	16000	ug/kg
BENZ(A)ANTHRACENE	* 9900	16000	ug/kg
BENZO(A)PYRENE	5500	330	ug/kg
BENZO(B)FLUORANTHENE	5000	330	ug/kg
BENZO(G,H,I)PERYLENE	2900	330	ug/kg
BENZO(K)FLUORANTHENE	1600	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	* 10000	16000	ug/kg
DIBENZ(A,H)ANTHRACENE	580	330	ug/kg
DIBENZOFURAN	3900	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	* 17000	16000	ug/kg
FLUORENE	* 20000	16000	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	2900	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	* 8400	16000	ug/kg
NAPHTHALENE	* 87000	16000	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	* 56000	16000	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	* 32000	16000	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			
2-FLUOROPHENOL	70		% Rec
PHENOL-D5	84		% Rec
NITROBENZENE-D5	** 230		% Rec
2-FLUOROBIPHENYL	77		% Rec
2,4,6-TRIBROMOPHENOL	114		% Rec
TERPHENYL-D14	** 190		% Rec
ALSO DETECTED			
UNKNOWN	RT=4.84		
(1-METHYLETHYL)-BENZENE	RT=7.49		
1,3,5-TRIMETHYLBENZENE	RT=8.89		
1,2,4-TRIMETHYLBENZENE	RT=9.6		
1-ETHYL-3-METHYLBENZENE	RT=10.3		
1-ETHYNYL-4-METHYLBENZENE	RT=10.87		
1-METHYLNAPHTHALENE	RT=16.73		
2-ETHYL-NAPHTHALENE	RT=18.21		
1,6-DIMETHYLNAPHTHALENE	RT=18.46		
1,8-DIMETHYLNAPHTHALENE	RT=18.67		
1-(2-PROPENYL)-NAPHTHALENE	RT=19.72		
4-METHYL-1,1'-BIPHENYL	RT=19.87		
1,4,5-TRIMETHYLNAPHTHALENE	RT=20.72		
1H-PHENALENE	RT=21.05		
9-METHYLENE-9H-FLUORENE	RT=24.54		
4-METHYLPHENANTHRENE	RT=25.87		
2-METHYLANTHRACENE	RT=25.97		
UNKNOWN	RT=26.19		
UNKNOWN	RT=26.12		
DIBENZOTHIOPHENE	RT=23.91		

*NOTE: * FROM 1:50 DILUTION*
*NOTE: ** DUE TO MATRIX EFFECTS*
NOTE: BENZO(A)ANTHRACENE, CHRYSENE, AND 2-METHYLNAPHTHALENE ESTIMATED

CONCENTRATIONS

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
BDL *Below Detection Limit*
RT *Retention Time*

Sample chain of custody number 3400.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	01-DEC-90	A219240
	Complete 14-DEC-90	PO Number P0072488
	Printed 06-MAR-91	Sampled 28-NOV-90 13:00

Report To	Bill To
ILLINOIS POWER COMPANY WILLIAM WITTS P.O. BOX 511 500 SOUTH 27TH STREET DECATUR, IL 62525	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-10-02
DESCRIPTION: UTB-10 (14-19')

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH Analysis Date: 03-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 04-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: C. BOYLE Analysis Date: 03-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 03-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

HYDROCARBON SCAN SW846-8000

Analyst: J. SMITH Analysis Date: 06-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	25	mg/kg
DIESEL FUEL	BDL	100	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 06-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	62	10	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: T. WIEGAND Analysis Date: 03-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	121		% Rec
TOLUENE-D8	117		% Rec
BROMOFLUOROBENZENE	116		% Rec
DILUTION FACTOR 1:63			
ALSO DETECTED			
UNKNOWN	RT=27.96		

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: M. FRANK Analysis Date: 05-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.2		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 10-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219240**

Parameter	Result	Det. Limit	Units
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	70		% Rec
PHENOL-D5	73		% Rec
NITROBENZENE-D5	83		% Rec
2-FLUOROBIPHENYL	84		% Rec
2,4,6-TRIBROMOPHENOL	75		% Rec
TERPHENYL-D14	90		% Rec
ALSO DETECTED			
UNKNOWN	RT=1.66		
UNKNOWN	RT=3.14		
UNKNOWN	RT=3.75		
UNKNOWN	RT=4.85		
UNKNOWN	RT=5.08		
UNKNOWN	RT=5.4		
UNKNOWN	RT=5.71		
(1-METHYLETHYL)BENZENE	RT=7.47		
UNKNOWN	RT=8.21		
UNKNOWN	RT=9.5		
UNKNOWN HYDROCARBON	RT=22.95		
UNKNOWN	RT=33.22		

Sample Comments

BDL Below Detection Limit
RT Retention Time

Sample chain of custody number 3400.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219786
	Complete 28-DEC-90	PO Number P0072488
	Printed 29-DEC-90	Sampled 03-DEC-90 14:40

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-11-01
SAMPLE LOCATION:: UTB-11 (8'-13')

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P130.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: S. GRAY Analysis Date: 18-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ARSENIC	3.2	1.0	mg/kg

CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Analyst: M. SCROGHAM Analysis Date: 12-DEC-90 Test: P131.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471

Analyst: M. SCROGHAM Analysis Date: 13-DEC-90 Instrument: CVAA Test: M120.2. 0

Prep: CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P129.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
BARIUM	30	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M108.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	5.0	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M110.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CHROMIUM	12	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M112.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
COPPER	13	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
IRON	16000	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
LEAD	13	5.0	mg/kg

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
MANGANESE	230	1.0	mg/kg

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
NICKEL	18	1.0	mg/kg

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ZINC	49	2.0	mg/kg

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A219786

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 20-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	3500	1600	ug/kg
ACENAPHTHYLENE	12000	1600	ug/kg
ANTHRACENE	14000	1600	ug/kg
BENZ(A)ANTHRACENE	8400	1600	ug/kg
BENZO(A)PYRENE	4300	1600	ug/kg
BENZO(B)FLUORANTHENE	8200	1600	ug/kg
BENZO(G,H,I)PERYLENE	BDL	1600	ug/kg
BENZO(K)FLUORANTHENE	BDL	1600	ug/kg
BENZYL ALCOHOL	BDL	1600	ug/kg
BENZYLBUTYLPHTHALATE	BDL	1600	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	1600	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	1600	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	1600	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	1600	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	1600	ug/kg
CARBAZOLE	BDL	1600	ug/kg
4-CHLOROANILINE	BDL	1600	ug/kg
2-CHLORONAPHTHALENE	BDL	1600	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	1600	ug/kg
CHRYSENE	7100	1600	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	1600	ug/kg
DIBENZOFURAN	13000	1600	ug/kg
1,2-DICHLOROBENZENE	BDL	1600	ug/kg
1,3-DICHLOROBENZENE	BDL	1600	ug/kg
1,4-DICHLOROBENZENE	BDL	1600	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	3300	ug/kg
DIETHYLPHTHALATE	BDL	1600	ug/kg
DIMETHYLPHTHALATE	BDL	1600	ug/kg
DI-N-BUTYLPHTHALATE	BDL	1600	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROTOLUENE	BDL	1600	ug/kg
2,6-DINITROTOLUENE	BDL	1600	ug/kg
DI-N-OCTYLPHTHALATE	BDL	1600	ug/kg
FLUORANTHENE	18000	1600	ug/kg
FLUORENE	14000	1600	ug/kg
HEXACHLOROBENZENE	BDL	1600	ug/kg
HEXACHLOROBUTADIENE	BDL	1600	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	1600	ug/kg
HEXACHLOROETHANE	BDL	1600	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	1600	ug/kg
ISOPHORONE	BDL	1600	ug/kg
2-METHYLNAPHTHALENE	* 31000	8200	ug/kg
NAPHTHALENE	* 100000	8200	ug/kg
2-NITROANILINE	BDL	8000	ug/kg
3-NITROANILINE	BDL	8000	ug/kg
4-NITROANILINE	BDL	8000	ug/kg
NITROBENZENE	BDL	1600	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	1600	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	1600	ug/kg
PHENANTHRENE	* 39000	8200	ug/kg
2-PICOLINE	BDL	8000	ug/kg
PYRENE	12000	1600	ug/kg
PYRIDINE	BDL	8000	ug/kg
TETRACHLOROBENZENES	BDL	1600	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219786**

Parameter	Result	Det. Limit	Units
TOLUENEDIAMINE	BDL	8000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	1600	ug/kg
BENZOIC ACID	BDL	8000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	1600	ug/kg
2-CHLOROPHENOL	BDL	1600	ug/kg
2,4-DICHLOROPHENOL	BDL	1600	ug/kg
2,4-DIMETHYLPHENOL	17000	1600	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	8000	ug/kg
2,4-DINITROPHENOL	BDL	8000	ug/kg
2-METHYLPHENOL	4300	1600	ug/kg
4-METHYLPHENOL	14000	1600	ug/kg
2-NITROPHENOL	BDL	1600	ug/kg
4-NITROPHENOL	BDL	8000	ug/kg
PENTACHLOROPHENOL	BDL	8000	ug/kg
PHENOL	1700	1600	ug/kg
TETRACHLOROPHENOL	BDL	1600	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	1600	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	65		% Rec
PHENOL-D5	71		% Rec
NITROBENZENE-D5	63		% Rec
2-FLUOROBIPHENYL	65		% Rec
2,4,6-TRIBROMOPHENOL	30		% Rec
TERPHENYL-D14	64		% Rec
DILUTION FACTOR 1:5			

*NOTE: * RUN AT 1:25 DILUTION*

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 11-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	12	mg/kg
ACROLEIN	BDL	31	mg/kg
ACRYLONITRILE	BDL	44	mg/kg
BENZENE	7.9	3.1	mg/kg
BROMODICHLOROMETHANE	BDL	3.1	mg/kg
BROMOFORM	BDL	3.1	mg/kg
BROMOMETHANE	BDL	6.3	mg/kg
CARBON DISULFIDE	BDL	3.1	mg/kg
CARBON TETRACHLORIDE	BDL	3.1	mg/kg
CHLOROBENZENE	BDL	3.1	mg/kg
CHLOROETHANE	BDL	6.3	mg/kg
CHLOROFORM	BDL	3.1	mg/kg
CHLOROMETHANE	BDL	6.3	mg/kg
DIBROMOCHLOROMETHANE	BDL	3.1	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
DICHLORODIFLUOROMETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHANE	BDL	3.1	mg/kg
1,2-DICHLOROETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHENE	BDL	3.1	mg/kg
1,2-DICHLOROPROPANE	BDL	3.1	mg/kg
ETHYLBENZENE	4.3	3.1	mg/kg
FLUOROTRICHLOROMETHANE	BDL	3.1	mg/kg
2-HEXANONE	BDL	6.3	mg/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219786**

Parameter	Result	Det. Limit	Units
METHYLENE CHLORIDE	BDL	3.1	mg/kg
METHYL ETHYL KETONE	BDL	6.3	mg/kg
4-METHYL-2-PENTANONE	BDL	6.3	mg/kg
STYRENE	BDL	3.1	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	3.1	mg/kg
TETRACHLOROETHENE	BDL	3.1	mg/kg
TETRAHYDROFURAN	BDL	15	mg/kg
TOLUENE	22	3.1	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	3.1	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
1,1,1-TRICHLOROETHANE	BDL	3.1	mg/kg
1,1,2-TRICHLOROETHANE	BDL	3.1	mg/kg
TRICHLOROETHENE	BDL	3.1	mg/kg
VINYL ACETATE	BDL	6.3	mg/kg
VINYL CHLORIDE	BDL	6.3	mg/kg
XYLENE (TOTAL)	20	3.1	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	*		
TOLUENE-D8	*		
BROMOFLUOROBENZENE	*		
DILUTION FACTOR 1:630			

*NOTE: * SURROGATES DILUTED OUT*

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	12	0.50	mg/kg

Sample Comments

* *See Note for Parameter*
BDL Below Detection Limit

Sample chain of custody number 3401.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219791
	Complete 04-JAN-91	PO Number P0072488
	Printed 05-JAN-91	Sampled 03-DEC-90 17:20

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-11-02
SAMPLE LOCATION:: UTB-11 (21'-22')

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.2		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 27-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219791**

Parameter	Result	Det. Limit	Units
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	71		% Rec
PHENOL-D5	76		% Rec
NITROBENZENE-D5	78		% Rec
2-FLUOROBIPHENYL	78		% Rec
2,4,6-TRIBROMOPHENOL	40		% Rec
TERPHENYL-D14	95		% Rec

NOTE: SAMPLE RUN TWICE WITH NO IMPROVEMENT IN INTERNAL STANDARD RECOVERY

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 11-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	0.71	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	117		% Rec
BROMOFLUOROBENZENE	114		% Rec
DILUTION FACTOR 1:63			

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219791**

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3401.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219788
	Complete 26-DEC-90	PO Number P0072488
	Printed 27-DEC-90	Sampled 05-DEC-90 15:20

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-14-01
SAMPLE LOCATION:: UTB-14 (4'-5')

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P130.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: S. GRAY Analysis Date: 18-DEC-90 Instrument: GFAA Test: M103.2. 0
Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ARSENIC	3.0	0.50	mg/kg

CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Analyst: M. SCROGHAM Analysis Date: 12-DEC-90 Test: P131.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471

Analyst: M. SCROGHAM Analysis Date: 13-DEC-90 Instrument: CVAA Test: M120.2. 0
Prep: CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P129.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M104.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
BARIUM	33	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M108.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	5.0	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M110.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CHROMIUM	8.0	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M112.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
COPPER	14	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
IRON	20000	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
LEAD	23	5.0	mg/kg

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
MANGANESE	210	1.0	mg/kg

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
NICKEL	14	1.0	mg/kg

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ZINC	98	2.0	mg/kg

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	5.0		Grams
FINAL VOLUME	1.0		mL

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219788**

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 15-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	38000	19000	ug/kg
ACENAPHTHYLENE	BDL	19000	ug/kg
ANTHRACENE	34000	19000	ug/kg
BENZ(A)ANTHRACENE	24000	19000	ug/kg
BENZO(A)PYRENE	20000	19000	ug/kg
BENZO(B)FLUORANTHENE	22000	19000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	19000	ug/kg
BENZO(K)FLUORANTHENE	BDL	19000	ug/kg
BENZYL ALCOHOL	BDL	19000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	19000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	19000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	19000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	19000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	19000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	19000	ug/kg
CARBAZOLE	BDL	19000	ug/kg
4-CHLOROANILINE	BDL	19000	ug/kg
2-CHLORONAPHTHALENE	BDL	19000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	19000	ug/kg
CHRYSENE	26000	19000	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	19000	ug/kg
DIBENZOFURAN	28000	19000	ug/kg
1,2-DICHLOROBENZENE	BDL	19000	ug/kg
1,3-DICHLOROBENZENE	BDL	19000	ug/kg
1,4-DICHLOROBENZENE	BDL	19000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	39000	ug/kg
DIETHYLPHTHALATE	BDL	19000	ug/kg
DIMETHYLPHTHALATE	BDL	19000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	19000	ug/kg
DINITROBENZENES	BDL	19000	ug/kg
2,4-DINITROTOLUENE	BDL	19000	ug/kg
2,6-DINITROTOLUENE	BDL	19000	ug/kg
DI-N-OCTYLPHTHALATE	BDL	19000	ug/kg
FLUORANTHENE	46000	19000	ug/kg
FLUORENE	38000	19000	ug/kg
HEXACHLOROBENZENE	BDL	19000	ug/kg
HEXACHLOROBUTADIENE	BDL	19000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	19000	ug/kg
HEXACHLOROETHANE	BDL	19000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	19000	ug/kg
ISOPHORONE	BDL	19000	ug/kg
2-METHYLNAPHTHALENE	BDL	19000	ug/kg
NAPHTHALENE	22000	19000	ug/kg
2-NITROANILINE	BDL	96000	ug/kg
3-NITROANILINE	BDL	96000	ug/kg
4-NITROANILINE	BDL	96000	ug/kg
NITROBENZENE	BDL	19000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	19000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	19000	ug/kg
PHENANTHRENE	96000	19000	ug/kg
2-PICOLINE	BDL	96000	ug/kg
PYRENE	48000	19000	ug/kg
PYRIDINE	BDL	96000	ug/kg
TETRACHLOROBENZENES	BDL	19000	ug/kg

Parameter	Result	Det. Limit	Units
TOLUENEDIAMINE	BDL	96000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	19000	ug/kg
BENZOIC ACID	BDL	96000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	19000	ug/kg
2-CHLOROPHENOL	BDL	19000	ug/kg
2,4-DICHLOROPHENOL	BDL	19000	ug/kg
2,4-DIMETHYLPHENOL	BDL	19000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	96000	ug/kg
2,4-DINITROPHENOL	BDL	96000	ug/kg
2-METHYLPHENOL	BDL	19000	ug/kg
4-METHYLPHENOL	BDL	19000	ug/kg
2-NITROPHENOL	BDL	19000	ug/kg
4-NITROPHENOL	BDL	96000	ug/kg
PENTACHLOROPHENOL	BDL	96000	ug/kg
PHENOL	BDL	19000	ug/kg
TETRACHLOROPHENOL	BDL	19000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	19000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	19000	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		
PHENOL-D5	*		
NITROBENZENE-D5	*		
2-FLUOROBIPHENYL	*		
2,4,6-TRIBROMOPHENOL	*		
TERPHENYL-D14	*		
DILUTION FACTOR 10			
ALSO DETECTED			
UNKNOWN	EST 192000 RT=3.23		
BENZENE(1-METHYLETHYL)	EST 40000 RT=5.68		
UNKNOWN HYDROCARBON	EST 26000 RT=16.23		
UNKNOWN HYDROCARBON	EST 54000 RT=17.95		
UNKNOWN	EST 52000 RT=18.36		
1-METHYL NAPHTHALENE	EST 32000 RT=18.81		
UNKNOWN HYDROCARBON	EST 42000 RT=20.35		
NAPHTHALENE,DIMETHYL	EST 40000 RT=20.93		
NAPHTHALENE,DIMETHYL	EST 40000 RT=21.2		
NAPHTHALENE,DIMETHYL	EST 28000 RT=21.59		
UNKNOWN HYDROCARBON	EST 70000 RT=22		
UNKNOWN HYDROCARBON	EST 62000 RT=22.84		
NAPHTHALENE,TRIMETHYL	EST 28000 RT=23.3		
NAPHTHALENE,TRIMETHYL	EST 26000 RT=23.54		
NAPHTHALENE,TRIMETHYL	EST 26000 RT=23.65		
NAPHTHALENE,TRIMETHYL	EST 34000 RT=23.83		
UNKNOWN HYDROCARBON	EST 94000 RT=26.06		
UNKNOWN	EST 68000 RT=26.88		
UNKNOWN	EST 57000 RT=27.54		

*NOTE: * SURROGATES DILUTED OUT*

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 11-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219788**

Parameter	Result	Det. Limit	Units
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	0.33	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	* 125		% Rec
BROMOFLUOROBENZENE	114		% Rec
DILUTION FACTOR 1:63			

*NOTE: * RAN TWICE WITH NO IMPROVEMENT IN SURROGATE RECOVERY*

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219788**

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	2.5	0.1	mg/kg

Sample Comments

* *See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value
RT Retention Time

Sample chain of custody number 3401.

Quality Assurance Officer: GaBusch

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219793
	Complete 21-DEC-90	PO Number P0072488
	Printed 22-DEC-90	Sampled 06-DEC-90 16:30

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-14-02
SAMPLE LOCATION:: UTB-14 (32'-33')

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.1		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 18-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219793**

Parameter	Result	Det. Limit	Units
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	32		% Rec
PHENOL-D5	68		% Rec
NITROBENZENE-D5	77		% Rec
2-FLUOROBIPHENYL	79		% Rec
2,4,6-TRIBROMOPHENOL	4		% Rec
TERPHENYL-D14	72		% Rec

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 12-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	110		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	102		% Rec
DILUTION FACTOR 1:63			

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219793**

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3401.

Quality Assurance Officer: G A Busck

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219789
	Complete 26-DEC-90	PO Number P0072488
	Printed 02-JAN-91	Sampled 06-DEC-90 15:20

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-16-01
SAMPLE LOCATION:: UTB-16 (8'-10')

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P130.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA (3 POINT MSA) SW846-7060

Analyst: S. GRAY Analysis Date: 18-DEC-90 Instrument: GFAA Test: M603.2. 0
Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ARSENIC	4.4	1.5	mg/kg
ADDITION 1	0.010		mg/kg
ADDITION 2	0.020		mg/kg
ADDITION 3	0.040		mg/kg
SAMPLE	0.0135		Conc
SAMPLE + ADD 1	0.0222		Conc
SAMPLE + ADD 2	0.0312		Conc
SAMPLE + ADD 3	0.0496		Conc
DILUTION	3		

CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Analyst: M. SCROGHAM Analysis Date: 12-DEC-90 Test: P131.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471

Analyst: M. SCROGHAM Analysis Date: 13-DEC-90 Instrument: CVAA Test: M120.2. 0
Prep: CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P129.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
BARIUM	16	1.0	mg/kg

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	5.0	mg/kg

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CHROMIUM	13	1.0	mg/kg

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
COPPER	10	2.0	mg/kg

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
IRON	15000	2.0	mg/kg

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
LEAD	10	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
MANGANESE	370	1.0	mg/kg

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
NICKEL	18	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ZINC	57	2.0	mg/kg

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	5.1		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 17-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	110000	39000	ug/kg
ACENAPHTHYLENE	BDL	39000	ug/kg
ANTHRACENE	67000	39000	ug/kg
BENZ(A)ANTHRACENE	48000	39000	ug/kg
BENZO(A)PYRENE	EST 28000	39000	ug/kg
BENZO(B)FLUORANTHENE	EST 28000	39000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	39000	ug/kg
BENZO(K)FLUORANTHENE	BDL	39000	ug/kg
BENZYL ALCOHOL	BDL	39000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	39000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	39000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	39000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	39000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	39000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	39000	ug/kg
CARBAZOLE	BDL	39000	ug/kg
4-CHLOROANILINE	BDL	39000	ug/kg
2-CHLORONAPHTHALENE	BDL	39000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	39000	ug/kg
CHRYSENE	44000	39000	ug/kg
DIBENZ(A,H)ANTHRACENE	59000	39000	ug/kg
DIBENZOFURAN	BDL	39000	ug/kg
1,2-DICHLOROBENZENE	BDL	39000	ug/kg
1,3-DICHLOROBENZENE	BDL	39000	ug/kg
1,4-DICHLOROBENZENE	BDL	39000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	79000	ug/kg
DIETHYLPHTHALATE	BDL	39000	ug/kg
DIMETHYLPHTHALATE	BDL	39000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	39000	ug/kg
DINITROBENZENES	BDL	39000	ug/kg
2,4-DINITROTOLUENE	BDL	39000	ug/kg
2,6-DINITROTOLUENE	BDL	39000	ug/kg
DI-N-OCTYLPHTHALATE	BDL	39000	ug/kg
FLUORANTHENE	120000	39000	ug/kg
FLUORENE	100000	39000	ug/kg
HEXACHLOROBENZENE	BDL	39000	ug/kg
HEXACHLOROBUTADIENE	BDL	39000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	39000	ug/kg
HEXACHLOROETHANE	BDL	39000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	39000	ug/kg
ISOPHORONE	BDL	39000	ug/kg
2-METHYLNAPHTHALENE	260000	39000	ug/kg

Parameter	Result	Det. Limit	Units
NAPHTHALENE	590000	39000	ug/kg
2-NITROANILINE	BDL	190000	ug/kg
3-NITROANILINE	BDL	190000	ug/kg
4-NITROANILINE	BDL	190000	ug/kg
NITROBENZENE	BDL	39000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	39000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	39000	ug/kg
PHENANTHRENE	230000	39000	ug/kg
2-PICOLINE	BDL	190000	ug/kg
PYRENE	100000	39000	ug/kg
PYRIDINE	BDL	190000	ug/kg
TETRACHLOROBENZENES	BDL	39000	ug/kg
TOLUENEDIAMINE	BDL	190000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	39000	ug/kg
BENZOIC ACID	BDL	190000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	39000	ug/kg
2-CHLOROPHENOL	BDL	39000	ug/kg
2,4-DICHLOROPHENOL	BDL	39000	ug/kg
2,4-DIMETHYLPHENOL	BDL	39000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	190000	ug/kg
2,4-DINITROPHENOL	BDL	190000	ug/kg
2-METHYLPHENOL	BDL	39000	ug/kg
4-METHYLPHENOL	BDL	39000	ug/kg
2-NITROPHENOL	BDL	39000	ug/kg
4-NITROPHENOL	BDL	190000	ug/kg
PENTACHLOROPHENOL	BDL	190000	ug/kg
PHENOL	BDL	39000	ug/kg
TETRACHLOROPHENOL	BDL	39000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	39000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	39000	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		
PHENOL-D5	*		
NITROBENZENE-D5	*		
2-FLUOROBIPHENYL	*		
2,4,6-TRIBROMOPHENOL	*		
TERPHENYL-D14	*		
DILUTION FACTOR 1:20			
ALSO DETECTED			
UNKNOWN	EST 300000 RT=3.16		
BENZENE,METHYLETHYL	EST 60000 RT=5.62		
1H-INDENE	EST 72000 RT=10.05		
NAPHTHALENE,1-METHYL	EST 220000 RT=18.77		
NAPHTHALENE,2-ETHENYL	EST 63000 RT=20.34		
NAPHTHALENE,2-ETHYL	EST 48000 RT=20.65		
NAPHTHALENE,DIMETHYL	EST 120000 RT=20.88		
NAPHTHALENE,DIMETHYL	EST 120000 RT=21.16		
NAPHTHALENE,DIMETHYL	EST 63000 RT=21.25		
NAPHTHALENE,DIMETHYL	EST 71000 RT=21.55		
NAPHTHALENE,TRIMETHYL	EST 21000 RT=23.5		
UNKNOWN	EST 31000 RT=23.83		
DIBENZOFURAN,4-METHYL	EST 30000 RT=25		
9H-FLUORENE,METHYL	EST 39000 RT=26.01		
UNKNOWN	EST 26000 RT=26.83		
PHENANTHRENE,4-METHYL	EST 39000 RT=28.84		

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219789**

Parameter	Result	Det. Limit	Units
UNKNOWN	EST 32000 RT=28.93		
UNKNOWN	EST 44000 RT=29.13		
11H-BENZO(A)FLUORENE	EST 40000 RT=32.83		
11H-BENZO(B)FLUORENE	EST 28000 RT=33.06		

*NOTE: * SURROGATES DILUTED OUT*

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 11-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	12	mg/kg
ACROLEIN	BDL	31	mg/kg
ACRYLONITRILE	BDL	44	mg/kg
BENZENE	5.6	3.1	mg/kg
BROMODICHLOROMETHANE	BDL	3.1	mg/kg
BROMOFORM	BDL	3.1	mg/kg
BROMOMETHANE	BDL	6.3	mg/kg
CARBON DISULFIDE	BDL	3.1	mg/kg
CARBON TETRACHLORIDE	BDL	3.1	mg/kg
CHLOROBENZENE	BDL	3.1	mg/kg
CHLOROETHANE	BDL	6.3	mg/kg
CHLOROFORM	BDL	3.1	mg/kg
CHLOROMETHANE	BDL	6.3	mg/kg
DIBROMOCHLOROMETHANE	BDL	3.1	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
DICHLORODIFLUOROMETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHANE	BDL	3.1	mg/kg
1,2-DICHLOROETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHENE	BDL	3.1	mg/kg
1,2-DICHLOROPROPANE	BDL	3.1	mg/kg
ETHYLBENZENE	20	3.1	mg/kg
FLUOROTRICHLOROMETHANE	BDL	3.1	mg/kg
2-HEXANONE	BDL	6.3	mg/kg
METHYLENE CHLORIDE	BDL	3.1	mg/kg
METHYL ETHYL KETONE	BDL	6.3	mg/kg
4-METHYL-2-PENTANONE	BDL	6.3	mg/kg
STYRENE	BDL	3.1	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	3.1	mg/kg
TETRACHLOROETHENE	BDL	3.1	mg/kg
TETRAHYDROFURAN	BDL	15	mg/kg
TOLUENE	7.2	3.1	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	3.1	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
1,1,1-TRICHLOROETHANE	BDL	3.1	mg/kg
1,1,2-TRICHLOROETHANE	BDL	3.1	mg/kg
TRICHLOROETHENE	BDL	3.1	mg/kg
VINYL ACETATE	BDL	6.3	mg/kg
VINYL CHLORIDE	BDL	6.3	mg/kg
XYLENE (TOTAL)	60	3.1	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	*		
TOLUENE-D8	*		
BROMOFLUOROBENZENE	*		
DILUTION FACTOR 1:630			

*NOTE: * SURROGATES DILUTED OUT*

PHENOLS DISTILLATION SW846-9065
Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066
Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

Sample Comments

** See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value
RT Retention Time

Sample chain of custody number 3401.

Quality Assurance Officer: G. A. Busck

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219794
	Complete 04-JAN-91	PO Number P0072488
	Printed 05-JAN-91	Sampled 06-DEC-90 16:30

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-16-02
SAMPLE LOCATION:: UTB-16 (16.5'-18')

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 27-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	58		% Rec
PHENOL-D5	63		% Rec
NITROBENZENE-D5	62		% Rec
2-FLUOROBIPHENYL	61		% Rec
2,4,6-TRIBROMOPHENOL	14		% Rec
TERPHENYL-D14	71		% Rec

NOTE: SAMPLE RUN TWICE WITH NO IMPROVEMENT IN INTERNAL STANDARD RECOVERY

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 12-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	119		% Rec
TOLUENE-D8	112		% Rec
BROMOFLUOROBENZENE	112		% Rec
DILUTION FACTOR 1:63			

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219794**

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3401.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219790
	Complete 04-JAN-91	PO Number P0072488
	Printed 06-MAR-91	Sampled 07-DEC-90 11:00

Report To	Bill To
ILLINOIS POWER COMPANY WILLIAM WITTS P.O. BOX 511 500 SOUTH 27TH STREET DECATUR, IL 62525	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-18-01
SAMPLE LOCATION:: UTB-18 (4.5'-5')

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P130.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA (3 POINT MSA) SW846-7060

Analyst: M. BAUER Analysis Date: 18-DEC-90 Instrument: GFAA Test: M603.2. 0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ARSENIC	5.8	2.5	mg/kg
ADDITION 1	0.010		mg/kg
ADDITION 2	0.020		mg/kg
ADDITION 3	0.040		mg/kg
SAMPLE	0.0107		Conc
SAMPLE + ADD 1	0.0204		Conc
SAMPLE + ADD 2	0.0310		Conc
SAMPLE + ADD 3	0.0494		Conc
DILUTION	5		

THREE POINT METHOD OF STANDARD ADDITIONS REQUIRED DUE TO POOR SPIKE RECOVERY.

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Analyst: M. SCROGHAM Analysis Date: 12-DEC-90 Test: P131.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471

Analyst: M. SCROGHAM Analysis Date: 13-DEC-90 Instrument: CVAA Test: M120.2. 0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219790**

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: W. WATNESS Analysis Date: 12-DEC-90 Test: P129.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
BARIUM	69	1.0	mg/kg

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	5.0	mg/kg

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
CHROMIUM	12	1.0	mg/kg

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
COPPER	15	2.0	mg/kg

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
IRON	15000	2.0	mg/kg

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
LEAD	10	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
MANGANESE	400	1.0	mg/kg

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
NICKEL	17	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 17-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Parameter	Result	Det. Limit	Units
ZINC	60	2.0	mg/kg

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	20.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 27-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	490	ug/kg
ACENAPHTHYLENE	BDL	490	ug/kg
ANTHRACENE	BDL	490	ug/kg
BENZ(A)ANTHRACENE	BDL	490	ug/kg
BENZO(A)PYRENE	BDL	490	ug/kg
BENZO(B)FLUORANTHENE	BDL	490	ug/kg
BENZO(G,H,I)PERYLENE	BDL	490	ug/kg
BENZO(K)FLUORANTHENE	BDL	490	ug/kg
BENZYL ALCOHOL	BDL	490	ug/kg
BENZYLBUTYLPHTHALATE	BDL	490	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	490	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	490	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	490	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	490	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	490	ug/kg
CARBAZOLE	BDL	490	ug/kg
4-CHLOROANILINE	BDL	490	ug/kg
2-CHLORONAPHTHALENE	BDL	490	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	490	ug/kg
CHRYSENE	BDL	490	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	490	ug/kg
DIBENZOFURAN	BDL	490	ug/kg
1,2-DICHLOROBENZENE	BDL	490	ug/kg
1,3-DICHLOROBENZENE	BDL	490	ug/kg
1,4-DICHLOROBENZENE	BDL	490	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	990	ug/kg
DIETHYLPHTHALATE	BDL	490	ug/kg
DIMETHYLPHTHALATE	BDL	490	ug/kg
DI-N-BUTYLPHTHALATE	BDL	490	ug/kg
DINITROBENZENES	BDL	490	ug/kg
2,4-DINITROTOLUENE	BDL	490	ug/kg
2,6-DINITROTOLUENE	BDL	490	ug/kg
DI-N-OCTYLPHTHALATE	BDL	490	ug/kg
FLUORANTHENE	BDL	490	ug/kg
FLUORENE	BDL	490	ug/kg
HEXACHLOROBENZENE	BDL	490	ug/kg
HEXACHLOROBUTADIENE	BDL	490	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	490	ug/kg
HEXACHLOROETHANE	BDL	490	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	490	ug/kg
ISOPHORONE	BDL	490	ug/kg
2-METHYLNAPHTHALENE	BDL	490	ug/kg

Parameter	Result	Det. Limit	Units
NAPHTHALENE	BDL	490	ug/kg
2-NITROANILINE	BDL	2400	ug/kg
3-NITROANILINE	BDL	2400	ug/kg
4-NITROANILINE	BDL	2400	ug/kg
NITROBENZENE	BDL	490	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	490	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	490	ug/kg
PHENANTHRENE	BDL	490	ug/kg
2-PICOLINE	BDL	2400	ug/kg
PYRENE	BDL	490	ug/kg
PYRIDINE	BDL	2400	ug/kg
TETRACHLOROBENZENES	BDL	490	ug/kg
TOLUENEDIAMINE	BDL	2400	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	490	ug/kg
BENZOIC ACID	BDL	2400	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	490	ug/kg
2-CHLOROPHENOL	BDL	490	ug/kg
2,4-DICHLOROPHENOL	BDL	490	ug/kg
2,4-DIMETHYLPHENOL	BDL	490	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	2400	ug/kg
2,4-DINITROPHENOL	BDL	2400	ug/kg
2-METHYLPHENOL	BDL	490	ug/kg
4-METHYLPHENOL	BDL	490	ug/kg
2-NITROPHENOL	BDL	490	ug/kg
4-NITROPHENOL	BDL	2400	ug/kg
PENTACHLOROPHENOL	BDL	2400	ug/kg
PHENOL	BDL	490	ug/kg
TETRACHLOROPHENOL	BDL	490	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	490	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	490	ug/kg
.			
SURROGATE RECOVERY			
2-FLUOROPHENOL	19		% Rec
PHENOL-D5	56		% Rec
NITROBENZENE-D5	75		% Rec
2-FLUOROBIPHENYL	74		% Rec
2,4,6-TRIBROMOPHENOL	4		% Rec
TERPHENYL-D14	70		% Rec

NOTE: SAMPLE RUN TWICE WITH NO IMPROVEMENT IN INTERNAL STANDARD RECOVERY

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 11-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219790**

Parameter	Result	Det. Limit	Units
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	112		% Rec
BROMOFLUOROBENZENE	109		% Rec
DILUTION FACTOR 1:63			

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3401.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	08-DEC-90	A219795
	Complete 27-DEC-90	PO Number P0072488
	Printed 06-MAR-91	Sampled 07-DEC-90 12:00

Report To	Bill To
ILLINOIS POWER COMPANY WILLIAM WITTS P.O. BOX 511 500 SOUTH 27TH STREET DECATUR, IL 62525	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE NO.: UTB-18-02
SAMPLE LOCATION:: UTB-18 (17-18')

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: J. MINNIEAR, II Analysis Date: 12-DEC-90 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	20.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 20-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	490	ug/kg
ACENAPHTHYLENE	BDL	490	ug/kg
ANTHRACENE	BDL	490	ug/kg
BENZ(A)ANTHRACENE	BDL	490	ug/kg
BENZO(A)PYRENE	520	490	ug/kg
BENZO(B)FLUORANTHENE	850	490	ug/kg
BENZO(G,H,I)PERYLENE	BDL	490	ug/kg
BENZO(K)FLUORANTHENE	BDL	490	ug/kg
BENZYL ALCOHOL	BDL	490	ug/kg
BENZYLBUTYLPHTHALATE	BDL	490	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	490	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	490	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	490	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	490	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	490	ug/kg
CARBAZOLE	BDL	490	ug/kg
4-CHLOROANILINE	BDL	490	ug/kg
2-CHLORONAPHTHALENE	BDL	490	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	490	ug/kg
CHRYSENE	EST 430	490	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	490	ug/kg
DIBENZOFURAN	BDL	490	ug/kg
1,2-DICHLOROBENZENE	BDL	490	ug/kg
1,3-DICHLOROBENZENE	BDL	490	ug/kg
1,4-DICHLOROBENZENE	BDL	490	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	990	ug/kg
DIETHYLPHTHALATE	BDL	490	ug/kg

Parameter	Result	Det. Limit	Units
DIMETHYLPHTHALATE	BDL	490	ug/kg
DI-N-BUTYLPHTHALATE	BDL	490	ug/kg
DINITROBENZENES	BDL	490	ug/kg
2,4-DINITROTOLUENE	BDL	490	ug/kg
2,6-DINITROTOLUENE	BDL	490	ug/kg
DI-N-OCTYLPHTHALATE	BDL	490	ug/kg
FLUORANTHENE	EST 400	490	ug/kg
FLUORENE	BDL	490	ug/kg
HEXACHLOROBENZENE	BDL	490	ug/kg
HEXACHLOROBUTADIENE	BDL	490	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	490	ug/kg
HEXACHLOROETHANE	BDL	490	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	490	ug/kg
ISOPHORONE	BDL	490	ug/kg
2-METHYLNAPHTHALENE	BDL	490	ug/kg
NAPHTHALENE	BDL	490	ug/kg
2-NITROANILINE	BDL	2400	ug/kg
3-NITROANILINE	BDL	2400	ug/kg
4-NITROANILINE	BDL	2400	ug/kg
NITROBENZENE	BDL	490	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	490	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	490	ug/kg
PHENANTHRENE	BDL	490	ug/kg
2-PICOLINE	BDL	2400	ug/kg
PYRENE	EST 350	490	ug/kg
PYRIDINE	BDL	2400	ug/kg
TETRACHLOROBENZENES	BDL	490	ug/kg
TOLUENEDIAMINE	BDL	2400	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	490	ug/kg
BENZOIC ACID	BDL	2400	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	490	ug/kg
2-CHLOROPHENOL	BDL	490	ug/kg
2,4-DICHLOROPHENOL	BDL	490	ug/kg
2,4-DIMETHYLPHENOL	BDL	490	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	2400	ug/kg
2,4-DINITROPHENOL	BDL	2400	ug/kg
2-METHYLPHENOL	BDL	490	ug/kg
4-METHYLPHENOL	BDL	490	ug/kg
2-NITROPHENOL	BDL	490	ug/kg
4-NITROPHENOL	BDL	2400	ug/kg
PENTACHLOROPHENOL	BDL	2400	ug/kg
PHENOL	BDL	490	ug/kg
TETRACHLOROPHENOL	BDL	490	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	490	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	490	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	63		% Rec
PHENOL-D5	83		% Rec
NITROBENZENE-D5	67		% Rec
2-FLUOROBIPHENYL	65		% Rec
2,4,6-TRIBROMOPHENOL	49		% Rec
TERPHENYL-D14	67		% Rec

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 12-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	116		% Rec
TOLUENE-D8	111		% Rec
BROMOFLUOROBENZENE	116		% Rec
DILUTION FACTOR 1:63			

PHENOLS DISTILLATION SW846-9065

Analyst: C. BOYLE Analysis Date: 11-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A219795**

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 14-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

Sample Comments

BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 3401.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244475
	Complete: 16-JAN-92	PO Number: PO072488-CHAMPAIGN	
	Printed: 30-APR-92	Sampled: 13-DEC-91 08:45	

Report To

KATHLEEN A. BLAINE
JOHN MATHES AND ASSOCIATES
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ACCOUNTS PAYABLE
ILLINOIS POWER COMPANY
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-15-S01
DESCRIPTION: 09'-11' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 31-DEC-91 Instrument: AUTO-ANALYZER Test: O405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	0.30	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	0.35	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	27.45		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	27	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: K. FULLMER Analysis Date: 31-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	19000	1000	mg/kg
1:100 DILUTION			

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 10-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	74.	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	7.3	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M112.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	13.	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	8900	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M116.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	8.8	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
MANGANESE	280	1.0	mg/kg
DILUTION 1:100			

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	15.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
ZINC	54.	2.0	mg/kg
DILUTION 1:100			

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	2.5	2.5	mg/kg
1:5 DILUTION			

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	0.36	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg

Parameter	Result	Det. Limit	Units
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	1.8	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	1.7	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	109		% Rec
TOLUENE-D8	94		% Rec
BROMOFLUOROBENZENE	103		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.99		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 08-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	EST 53000	330	ug/kg
ACENAPHTHYLENE	3300	330	ug/kg
ANTHRACENE	EST 22000	330	ug/kg
BENZ(A)ANTHRACENE	EST 14000	330	ug/kg
BENZO(A)PYRENE	7400	330	ug/kg
BENZO(B)FLUORANTHENE	7300	330	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244475**

Parameter	Result	Det. Limit	Units
BENZO(G,H,I)PERYLENE	4800	330	ug/kg
BENZO(K)FLUORANTHENE	2300	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	2600	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	730	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	9000	330	ug/kg
DIBENZ(A,H)ANTHRACENE	1100	330	ug/kg
DIBENZOFURAN	3600	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	EST 27000	330	ug/kg
FLUORENE	EST 23000	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	5100	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	EST 85000	330	ug/kg
NAPHTHALENE	EST 190000	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	EST 95000	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	EST 22000	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	76		% Rec
PHENOL-D5	80		% Rec
NITROBENZENE-D5	86		% Rec
2-FLUOROBIPHENYL	88		% Rec
2,4,6-TRIBROMOPHENOL	80		% Rec
TERPHENYL-D14	56		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 13-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.1

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	32000	16000	ug/kg
ACENAPHTHYLENE	BDL	16000	ug/kg
ANTHRACENE	EST 15000	16000	ug/kg
BENZ(A)ANTHRACENE	EST 8700	16000	ug/kg
BENZO(A)PYRENE	BDL	16000	ug/kg
BENZO(B)FLUORANTHENE	BDL	16000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	16000	ug/kg
BENZO(K)FLUORANTHENE	BDL	16000	ug/kg
BENZYL ALCOHOL	BDL	16000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	16000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	16000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	16000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	16000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	16000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	16000	ug/kg
CARBAZOLE	BDL	16000	ug/kg
4-CHLOROANILINE	BDL	16000	ug/kg
2-CHLORONAPHTHALENE	BDL	16000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	16000	ug/kg
CHRYSENE	BDL	16000	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	16000	ug/kg
DIBENZOFURAN	BDL	16000	ug/kg
1,2-DICHLOROBENZENE	BDL	16000	ug/kg
1,3-DICHLOROBENZENE	BDL	16000	ug/kg
1,4-DICHLOROBENZENE	BDL	16000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	33000	ug/kg
DIETHYLPHTHALATE	BDL	16000	ug/kg
DIMETHYLPHTHALATE	BDL	16000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	16000	ug/kg
DINITROBENZENES	BDL	16000	ug/kg
2,4-DINITROTOLUENE	BDL	16000	ug/kg
2,6-DINITROTOLUENE	BDL	16000	ug/kg
DI-N-OCTYLPHTHALATE	BDL	16000	ug/kg
FLUORANTHENE	EST 16000	16000	ug/kg

Parameter	Result	Det. Limit	Units
FLUORENE	18000	16000	ug/kg
HEXACHLOROBENZENE	BDL	16000	ug/kg
HEXACHLOROBUTADIENE	BDL	16000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	16000	ug/kg
HEXACHLOROETHANE	BDL	16000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	16000	ug/kg
ISOPHORONE	BDL	16000	ug/kg
2-METHYLNAPHTHALENE	65000	16000	ug/kg
NAPHTHALENE	120000	16000	ug/kg
2-NITROANILINE	BDL	80000	ug/kg
3-NITROANILINE	BDL	80000	ug/kg
4-NITROANILINE	BDL	80000	ug/kg
NITROBENZENE	BDL	16000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	16000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	16000	ug/kg
PHENANTHRENE	54000	16000	ug/kg
2-PICOLINE	BDL	80000	ug/kg
PYRENE	23000	16000	ug/kg
PYRIDINE	BDL	80000	ug/kg
TETRACHLOROBENZENES	BDL	16000	ug/kg
TOLUENEDIAMINE	BDL	80000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	16000	ug/kg
BENZOIC ACID	BDL	80000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	16000	ug/kg
2-CHLOROPHENOL	BDL	16000	ug/kg
2,4-DICHLOROPHENOL	BDL	16000	ug/kg
2,4-DIMETHYLPHENOL	BDL	16000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	80000	ug/kg
2,4-DINITROPHENOL	BDL	80000	ug/kg
2-METHYLPHENOL	BDL	16000	ug/kg
4-METHYLPHENOL	BDL	16000	ug/kg
2-NITROPHENOL	BDL	16000	ug/kg
4-NITROPHENOL	BDL	80000	ug/kg
PENTACHLOROPHENOL	BDL	80000	ug/kg
PHENOL	BDL	16000	ug/kg
TETRACHLOROPHENOL	BDL	16000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	16000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	16000	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		% Rec
PHENOL-D5	*		% Rec
NITROBENZENE-D5	*		% Rec
2-FLUOROBIPHENYL	*		% Rec
2,4,6-TRIBROMOPHENOL	*		% Rec
TERPHENYL-D14	*		% Rec

1:50 DILUTION
*NOTE: * SURROGATES DILUTED OUT*

SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.94		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310
Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	200	1.0	mg/kg
ACENAPHTHYLENE	8.6	1.6	mg/kg
ACENAPHTHENE	67	1.0	mg/kg
FLUORENE	51	0.12	mg/kg
PHENANTHRENE	99	1.0	mg/kg
ANTHRACENE	31	0.14	mg/kg
FLUORANTHENE	100	0.14	mg/kg
PYRENE	60	0.50	mg/kg
BENZ(A)ANTHRACENE	33	0.86	mg/kg
CHRYSENE	22	0.20	mg/kg
BENZO(B)FLUORANTHENE	14	0.20	mg/kg
BENZO(K)FLUORANTHENE	12	0.080	mg/kg
BENZO(A)PYRENE	14	1.5	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.56	mg/kg
BENZO(G,H,I)PERYLENE	14	0.94	mg/kg
INDENO(1,2,3-CD)PYRENE	9.2	0.20	mg/kg

1:200 DILUTION
MATRIX INTERFERENCES PRESENT A QUESTION OF APPLICABILITY OF THIS SAMPLE TO HPLC ANALYSIS.
AMENDED REPORT 4/30/92, GAB.

Sample Comments

DIFFERENCES BETWEEN SW-846 8310 AND 8270 DATA ARE POSSIBLY DUE TO SAMPLE NON-HOMOGENEITY; DIFFERENT SAMPLE CONTAINERS WERE USED FOR THESE METHODS. THE NATURE OF THE SAMPLE MADE HOMOGENIZATION PROBLEMATIC. COMPARISON OF SAMPLES AFTER ANALYSIS SHOW OBVIOUS VISUAL DIFFERENCES BETWEEN CONTAINERS OF THE SAME SAMPLE.
AMENDED REPORT 4/30/92, GAB.

* See Note for Parameter
BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: GABusch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244476
	Complete	PO Number	
	10-JAN-92	PO072488-CHAMPAIGN	
	Printed	Sampled	
	29-APR-92	13-DEC-91 10:20	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-15-SO2
DESCRIPTION: 33'-35' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: R. RIFE Analysis Date: 03-JAN-92 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 07-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	26.63		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	1600	1000	mg/kg
1:100 DILUTION			

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	109		% Rec
TOLUENE-D8	96		% Rec
BROMOFLUOROBENZENE	101		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.07		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 08-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	2700	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	EST 220	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	550	330	ug/kg
NAPHTHALENE	1300	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	470	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	EST 220	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	77		% Rec
PHENOL-D5	77		% Rec
NITROBENZENE-D5	77		% Rec
2-FLUOROBIPHENYL	86		% Rec
2,4,6-TRIBROMOPHENOL	74		% Rec
TERPHENYL-D14	90		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.90		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.1.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	0.98	0.005	mg/kg
ACENAPHTHYLENE	BDL	0.008	mg/kg
ACENAPHTHENE	0.25	0.005	mg/kg
FLUORENE	0.17	0.0006	mg/kg
PHENANTHRENE	0.39	0.005	mg/kg
ANTHRACENE	0.12	0.0007	mg/kg
FLUORANTHENE	0.50	0.0007	mg/kg
PYRENE	0.40	0.0025	mg/kg
BENZ(A)ANTHRACENE	0.11	0.0043	mg/kg
CHRYSENE	0.17	0.001	mg/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244476**

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	0.001	mg/kg
BENZO(K)FLUORANTHENE	BDL	0.0004	mg/kg
BENZO(A)PYRENE	0.29	0.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.0028	mg/kg
BENZO(G,H,I)PERYLENE	0.065	0.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	0.055	0.001	mg/kg

Sample Comments

DIFFERENCES BETWEEN SW-846 METHOD 8310 AND 8270 ARE POSSIBLY DUE TO SAMPLE NON-HOMOGENEITY; DIFFERENT SAMPLE CONTAINERS WERE USED FOR THOSE METHODS. THE NATURE OF THE SAMPLE MADE HOMOGENIZATION PROBLEMATIC. COMPARISON OF SAMPLES AFTER ANALYSIS SHOW OBVIOUS VISUAL DIFFERENCES BETWEEN CONTAINERS. AMENDED REPORT 4/29/92, GAB.

BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: GA Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244469
	Complete: 14-JAN-92	PO Number: PO072488-CHAMPAIGN	
	Printed: 08-MAY-92	Sampled: 11-DEC-91 11:45	

Report To

KATHLEEN A. BLAINE
JOHN MATHES AND ASSOCIATES
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ACCOUNTS PAYABLE
ILLINOIS POWER COMPANY
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-20-S01
DESCRIPTION: 07'-08' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: R. RIFE Analysis Date: 06-JAN-92 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 07-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	1.7	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	25.94		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	2000	1000	mg/kg
1:100 DILUTION			

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 09-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	97.	1.0	mg/kg

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	0.62	0.50	mg/kg

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 07-JAN-92 Instrument: ICP Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	13.	1.0	mg/kg

COPPER ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 09-JAN-92 Instrument: ICP Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
COPPER	13.	2.0	mg/kg

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	15000	2.0	mg/kg

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 06-JAN-92 Instrument: ICP Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	19.	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
MANGANESE	460	1.0	mg/kg

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 09-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
NICKEL	19.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
ZINC	54.	2.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 02-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	3.6	1.0	mg/kg

1:5 dilution

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 08-JAN-92 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg

Parameter	Result	Det. Limit	Units
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	93		% Rec
TOLUENE-D8	109		% Rec
BROMOFLUOROBENZENE	99		% Rec
PACKED COLUMN METHOD 8240 HAS BEEN REPLACED BY CAPILLARY COLUMN METHOD 8260 ON THIS INSTRUMENT			

DILUTION FACTOR 1:63
SAMPLE WAS RuN OUTSIDE OF HOLDING TIME.

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. HUGHS Analysis Date: 23-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.30		Grams
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 11-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg

HERITAGE LABORATORIES, INC. **Lab Sample ID: A244469**

Parameter	Result	Det. Limit	Units
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	EST 270	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	89		% Rec
PHENOL-D5	80		% Rec
NITROBENZENE-D5	92		% Rec
2-FLUOROBIPHENYL	82		% Rec
2,4,6-TRIBROMOPHENOL	79		% Rec
TERPHENYL-D14	85		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: B. SWEENEY Analysis Date: 23-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	31.61		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310
Analyst: T. COFFELT Analysis Date: 28-DEC-91 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	BDL	.005	mg/kg
ACENAPHTHYLENE	0.16	.008	mg/kg
ACENAPHTHENE	0.12	.005	mg/kg
FLUORENE	BDL	.0006	mg/kg
PHENANTHRENE	BDL	.005	mg/kg
ANTHRACENE	BDL	.0007	mg/kg
FLUORANTHENE	0.10	.0007	mg/kg
PYRENE	0.14	.0025	mg/kg
BENZ(A)ANTHRACENE	0.066	.0043	mg/kg
CHRYSENE	BDL	.001	mg/kg
BENZO(B)FLUORANTHENE	BDL	.001	mg/kg
BENZO(K)FLUORANTHENE	BDL	.0004	mg/kg
BENZO(A)PYRENE	BDL	.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	.0028	mg/kg
BENZO(G,H,I)PERYLENE	BDL	.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	BDL	.001	mg/kg

AMENDED REPORT 5/8/92, GAB.
CORRECTED DETECTION LIMITS.

Sample Comments

SAMPLE NOT HOMOGENEOUS (NI)

BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Sample Comments

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: JA Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244470
	Complete 14-JAN-92	PO Number PO072488-CHAMPAIGN	
	Printed 08-MAY-92	Sampled 11-DEC-91 14:10	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-20-SO2
DESCRIPTION: 17'-18' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 31-DEC-91 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	25.81		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	2300	1000	mg/kg

1:100 DILUTION

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 08-JAN-92 Instrument: GC/MS VOA Test: O510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	100		% Rec
TOLUENE-D8	105		% Rec
BROMOFLUOROBENZENE	97		% Rec
PACKED COLUMN METHOD 8240 HAS BEEN REPLACED BY			
CAPILLARY COLUMN METHOD 8260 ON THIS INSTRUMENT			

1:63 DILUTION FACTOR
SAMPLE WAS RUN OUTSIDE OF HOLDING TIME.

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: G. HUGHS Analysis Date: 23-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.09		Grams
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270
Analyst: J. ELLIS Analysis Date: 11-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	1600	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	90		% Rec
PHENOL-D5	81		% Rec
NITROBENZENE-D5	81		% Rec
2-FLUOROBIPHENYL	84		% Rec
2,4,6-TRIBROMOPHENOL	58		% Rec
TERPHENYL-D14	89		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: B. SWEENEY Analysis Date: 23-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.45		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310
Analyst: T. COFFELT Analysis Date: 28-DEC-91 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	BDL	.005	mg/kg
ACENAPHTHYLENE	BDL	.008	mg/kg
ACENAPHTHENE	BDL	.005	mg/kg
FLUORENE	BDL	.0006	mg/kg
PHENANTHRENE	0.014	.005	mg/kg
ANTHRACENE	BDL	.0007	mg/kg
FLUORANTHENE	BDL	.0007	mg/kg
PYRENE	BDL	.0025	mg/kg
BENZ(A)ANTHRACENE	BDL	.0043	mg/kg
CHRYSENE	BDL	.001	mg/kg

HERITAGE LABORATORIES, INC. **Lab Sample ID: A244470**

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	.001	mg/kg
BENZO(K)FLUORANTHENE	BDL	.0004	mg/kg
BENZO(A)PYRENE	BDL	.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	.0028	mg/kg
BENZO(G,H,I)PERYLENE	BDL	.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	BDL	.001	mg/kg

AMENDED REPORT 5/8/92, GAB.
CORRECTED DETECTION LIMITS.

Sample Comments

BDL Below Detection Limit

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: HABusch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244471
	Complete: 16-JAN-92	PO Number: PO072488-CHAMPAIGN	
	Printed: 30-APR-92	Sampled: 12-DEC-91 08:15	

Report To

KATHLEEN A. BLAINE
JOHN MATHES AND ASSOCIATES
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ACCOUNTS PAYABLE
ILLINOIS POWER COMPANY
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-21-SO1
DESCRIPTION: 03'-08' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 31-DEC-91 Instrument: AUTO-ANALYZER Test: O405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	5.1	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	26.58		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	760	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	5100	1000	mg/kg
1:100 DILUTION			

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 09-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	64.	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	0.65	0.50	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 07-JAN-92 Instrument: ICP Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	77.	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 09-JAN-92 Instrument: ICP Test: M112.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
COPPER	13.	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	16000	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 06-JAN-92 Instrument: ICP Test: M116.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	18.	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
MANGANESE	390	1.0	mg/kg

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 09-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
NICKEL	20.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
ZINC	51.	2.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 02-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	6.0	2.5	mg/kg

1:5 dilution

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	12	mg/kg
ACROLEIN	BDL	31	mg/kg
ACRYLONITRILE	BDL	44	mg/kg
BENZENE	BDL	3.1	mg/kg
BROMODICHLOROMETHANE	BDL	3.1	mg/kg
BROMOFORM	BDL	3.1	mg/kg
BROMOMETHANE	BDL	6.3	mg/kg
CARBON DISULFIDE	BDL	3.1	mg/kg
CARBON TETRACHLORIDE	BDL	3.1	mg/kg
CHLOROBENZENE	BDL	3.1	mg/kg
CHLOROETHANE	BDL	6.3	mg/kg

Parameter	Result	Det. Limit	Units
CHLOROFORM	BDL	3.1	mg/kg
CHLOROMETHANE	BDL	6.3	mg/kg
DIBROMOCHLOROMETHANE	BDL	3.1	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
DICHLORODIFLUOROMETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHANE	BDL	3.1	mg/kg
1,2-DICHLOROETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHENE	BDL	3.1	mg/kg
1,2-DICHLOROPROPANE	BDL	3.1	mg/kg
ETHYLBENZENE	20	3.1	mg/kg
FLUOROTRICHLOROMETHANE	BDL	3.1	mg/kg
2-HEXANONE	BDL	6.3	mg/kg
METHYLENE CHLORIDE	BDL	3.1	mg/kg
METHYL ETHYL KETONE	BDL	6.3	mg/kg
4-METHYL-2-PENTANONE	BDL	6.3	mg/kg
STYRENE	BDL	3.1	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	3.1	mg/kg
TETRACHLOROETHENE	BDL	3.1	mg/kg
TETRAHYDROFURAN	BDL	15	mg/kg
TOLUENE	8.8	3.1	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	3.1	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
1,1,1-TRICHLOROETHANE	BDL	3.1	mg/kg
1,1,2-TRICHLOROETHANE	BDL	3.1	mg/kg
TRICHLOROETHENE	BDL	3.1	mg/kg
VINYL ACETATE	BDL	6.3	mg/kg
VINYL CHLORIDE	BDL	6.3	mg/kg
XYLENE (TOTAL)	BDL	3.1	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	116		% Rec
TOLUENE-D8	96		% Rec
BROMOFLUOROBENZENE	117		% Rec

1:630 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.02		Grams
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 11-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	EST 73000	660	ug/kg
ACENAPHTHYLENE	1300	660	ug/kg
ANTHRACENE	EST 29000	660	ug/kg
BENZ(A)ANTHRACENE	EST 17000	660	ug/kg
BENZO(A)PYRENE	EST 12000	660	ug/kg
BENZO(B)FLUORANTHENE	12000	660	ug/kg
BENZO(G,H,I)PERYLENE	10000	660	ug/kg
BENZO(K)FLUORANTHENE	BDL	660	ug/kg
BENZYL ALCOHOL	BDL	660	ug/kg
BENZYLBUTYLPHTHALATE	BDL	660	ug/kg

Parameter	Result	Det. Limit	Units
BIS(2-CHLOROETHOXY)METHANE	BDL	660	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	660	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	660	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	4400	660	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	660	ug/kg
CARBAZOLE	EST 650	660	ug/kg
4-CHLOROANILINE	BDL	660	ug/kg
2-CHLORONAPHTHALENE	BDL	660	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	660	ug/kg
CHRYSENE	EST 11000	660	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	660	ug/kg
DIBENZOFURAN	4700	660	ug/kg
1,2-DICHLOROBENZENE	BDL	660	ug/kg
1,3-DICHLOROBENZENE	BDL	660	ug/kg
1,4-DICHLOROBENZENE	BDL	660	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	1300	ug/kg
DIETHYLPHTHALATE	BDL	660	ug/kg
DIMETHYLPHTHALATE	BDL	660	ug/kg
DI-N-BUTYLPHTHALATE	BDL	660	ug/kg
DINITROBENZENES	BDL	660	ug/kg
2,4-DINITROTOLUENE	BDL	660	ug/kg
2,6-DINITROTOLUENE	BDL	660	ug/kg
DI-N-OCTYLPHTHALATE	BDL	660	ug/kg
FLUORANTHENE	EST 26000	660	ug/kg
FLUORENE	EST 27000	660	ug/kg
HEXACHLOROBENZENE	BDL	660	ug/kg
HEXACHLOROBUTADIENE	BDL	660	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	660	ug/kg
HEXACHLOROETHANE	BDL	660	ug/kg
INDENO(1,2,3-CD)PYRENE	8500	660	ug/kg
ISOPHORONE	BDL	660	ug/kg
2-METHYLNAPHTHALENE	EST 110000	660	ug/kg
NAPHTHALENE	EST 320000	660	ug/kg
2-NITROANILINE	BDL	3200	ug/kg
3-NITROANILINE	BDL	3200	ug/kg
4-NITROANILINE	BDL	3200	ug/kg
NITROBENZENE	BDL	660	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	660	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	660	ug/kg
PHENANTHRENE	EST 120000	660	ug/kg
2-PICOLINE	BDL	3200	ug/kg
PYRENE	EST 58000	660	ug/kg
PYRIDINE	BDL	3200	ug/kg
TETRACHLOROBENZENES	BDL	660	ug/kg
TOLUENEDIAMINE	BDL	3200	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	660	ug/kg
BENZOIC ACID	BDL	3200	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	660	ug/kg
2-CHLOROPHENOL	BDL	660	ug/kg
2,4-DICHLOROPHENOL	BDL	660	ug/kg
2,4-DIMETHYLPHENOL	BDL	660	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	3200	ug/kg
2,4-DINITROPHENOL	BDL	3200	ug/kg
2-METHYLPHENOL	BDL	660	ug/kg
4-METHYLPHENOL	BDL	660	ug/kg
2-NITROPHENOL	BDL	660	ug/kg
4-NITROPHENOL	BDL	3200	ug/kg

Parameter	Result	Det. Limit	Units
PENTACHLOROPHENOL	BDL	3200	ug/kg
PHENOL	BDL	660	ug/kg
TETRACHLOROPHENOL	BDL	660	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	660	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	660	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	110		% Rec
PHENOL-D5	96		% Rec
NITROBENZENE-D5	97		% Rec
2-FLUOROBIPHENYL	60		% Rec
2,4,6-TRIBROMOPHENOL	38		% Rec
TERPHENYL-D14	66		% Rec

1:2 DILUTION

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.96		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	340	1.0	mg/kg
ACENAPHTHYLENE	10 (18d)	1.6	mg/kg
ACENAPHTHENE	90	1.0	mg/kg
FLUORENE	39	0.12	mg/kg
PHENANTHRENE	130	1.0	mg/kg
ANTHRACENE	41	0.14	mg/kg
FLUORANTHENE	130 (28d)	0.14	mg/kg
PYRENE	68 (7y)	0.50	mg/kg
BENZ(A)ANTHRACENE	48	0.86	mg/kg
CHRYSENE	33	0.20	mg/kg
BENZO(B)FLUORANTHENE	22	0.20	mg/kg
BENZO(K)FLUORANTHENE	BDL (18d)	0.080	mg/kg
BENZO(A)PYRENE	35 (6d)	1.5	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.56	mg/kg
BENZO(G,H,I)PERYLENE	9.2	0.94	mg/kg
INDENO(1,2,3-CD)PYRENE	15	0.20	mg/kg

1:200 DILUTION
MATRIX INTERFERENCES PRESENT A QUESTION OF APPLICABILITY OF THIS SAMPLE TO HPLC ANALYSIS.
AMENDED REPORT 4/30/92, GAB.

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 13-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.1

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	46000	26000	ug/kg
ACENAPHTHYLENE	BDL	26000	ug/kg
ANTHRACENE	EST 18000	26000	ug/kg
BENZ(A)ANTHRACENE	BDL	26000	ug/kg
BENZO(A)PYRENE	BDL	26000	ug/kg

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	26000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	26000	ug/kg
BENZO(K)FLUORANTHENE	BDL	26000	ug/kg
BENZYL ALCOHOL	BDL	26000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	26000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	26000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	26000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	26000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	26000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	26000	ug/kg
CARBAZOLE	BDL	26000	ug/kg
4-CHLOROANILINE	BDL	26000	ug/kg
2-CHLORONAPHTHALENE	BDL	26000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	26000	ug/kg
CHRYSENE	BDL	26000	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	26000	ug/kg
DIBENZOFURAN	BDL	26000	ug/kg
1,2-DICHLOROBENZENE	BDL	26000	ug/kg
1,3-DICHLOROBENZENE	BDL	26000	ug/kg
1,4-DICHLOROBENZENE	BDL	26000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	52000	ug/kg
DIETHYLPHTHALATE	BDL	26000	ug/kg
DIMETHYLPHTHALATE	BDL	26000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	26000	ug/kg
DINITROBENZENES	BDL	26000	ug/kg
2,4-DINITROTOLUENE	BDL	26000	ug/kg
2,6-DINITROTOLUENE	BDL	26000	ug/kg
DI-N-OCTYLPHTHALATE	BDL	26000	ug/kg
FLUORANTHENE	EST 23000	26000	ug/kg
FLUORENE	EST 22000	26000	ug/kg
HEXACHLOROBENZENE	BDL	26000	ug/kg
HEXACHLOROBUTADIENE	BDL	26000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	26000	ug/kg
HEXACHLOROETHANE	BDL	26000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	26000	ug/kg
ISOPHORONE	BDL	26000	ug/kg
2-METHYLNAPHTHALENE	65000	26000	ug/kg
NAPHTHALENE	190000	26000	ug/kg
2-NITROANILINE	BDL	120000	ug/kg
3-NITROANILINE	BDL	120000	ug/kg
4-NITROANILINE	BDL	120000	ug/kg
NITROBENZENE	BDL	26000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	26000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	26000	ug/kg
PHENANTHRENE	64000	26000	ug/kg
2-PICOLINE	BDL	120000	ug/kg
PYRENE	41000	26000	ug/kg
PYRIDINE	BDL	120000	ug/kg
TETRACHLOROBENZENES	BDL	26000	ug/kg
TOLUENEDIAMINE	BDL	120000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	26000	ug/kg
BENZOIC ACID	BDL	120000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	26000	ug/kg
2-CHLOROPHENOL	BDL	26000	ug/kg
2,4-DICHLOROPHENOL	BDL	26000	ug/kg
2,4-DIMETHYLPHENOL	BDL	26000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	120000	ug/kg

Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	120000	ug/kg
2-METHYLPHENOL	BDL	26000	ug/kg
4-METHYLPHENOL	BDL	26000	ug/kg
2-NITROPHENOL	BDL	26000	ug/kg
4-NITROPHENOL	BDL	120000	ug/kg
PENTACHLOROPHENOL	BDL	120000	ug/kg
PHENOL	BDL	26000	ug/kg
TETRACHLOROPHENOL	BDL	26000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	26000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	26000	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		% Rec
PHENOL-D5	*		% Rec
NITROBENZENE-D5	*		% Rec
2-FLUOROBIPHENYL	*		% Rec
2,4,6-TRIBROMOPHENOL	*		% Rec
TERPHENYL-D14	*		% Rec

1:80 DILUTION
*NOTE: * SURROGATES DILUTED OUT*

Sample Comments

SAMPLE NOT HOMOGENEOUS (NI)
DIFFERENCES BETWEEN SW-846 8310 AND 8270 DATA ARE POSSIBLY DUE TO SAMPLE NON-HOMOGENEITY; DIFFERENT SAMPLE CONTAINERS WERE USED FOR THESE METHODS. THE NATURE OF THE SAMPLE MADE HOMOGENIZATION PROBLEMATIC. COMPARISON OF SAMPLES AFTER ANALYSIS SHOW OBVIOUS VISUAL DIFFERENCES BETWEEN CONTAINERS OF THE SAME SAMPLE.
AMENDED REPORT 4/30/92, GAB.

** See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: G.A. Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244472
	Complete 14-JAN-92	PO Number P0072488-CHAMPAIGN	
	Printed 08-MAY-92	Sampled 12-DEC-91 09:20	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-21-SO2
DESCRIPTION: 20'-23' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 31-DEC-91 Instrument: AUTO-ANALYZER Test: O405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	26.29		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	11	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	1400	1000	mg/kg
1:100 DILUTION			

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	104		% Rec
TOLUENE-D8	103		% Rec
BROMOFLUOROBENZENE	95		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.99		Grams
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 11-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	330	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	180	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	75		% Rec
PHENOL-D5	75		% Rec
NITROBENZENE-D5	70		% Rec
2-FLUOROBIPHENYL	78		% Rec
2,4,6-TRIBROMOPHENOL	64		% Rec
TERPHENYL-D14	80		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.91		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	0.070	0.005	mg/kg
ACENAPHTHYLENE	BDL	0.008	mg/kg
ACENAPHTHENE	0.13	0.005	mg/kg
FLUORENE	BDL	0.0006	mg/kg
PHENANTHRENE	0.047	0.005	mg/kg
ANTHRACENE	BDL	0.0007	mg/kg
FLUORANTHENE	BDL	0.0007	mg/kg
PYRENE	BDL	0.0025	mg/kg
BENZ(A)ANTHRACENE	BDL	0.0043	mg/kg
CHRYSENE	BDL	0.001	mg/kg
BENZO(B)FLUORANTHENE	BDL	0.001	mg/kg

HERITAGE LABORATORIES, INC. **Lab Sample ID: A244472**

Parameter	Result	Det. Limit	Units
BENZO(K)FLUORANTHENE	BDL	0.0004	mg/kg
BENZO(A)PYRENE	BDL	0.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.0028	mg/kg
BENZO(G,H,I)PERYLENE	BDL	0.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	BDL	0.001	mg/kg

AMENDED REPORT 5/8/92, GAB.
CORRECTED DETECTION LIMITS.

Sample Comments

BDL Below Detection Limit

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: GA Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244473
	Complete	PO Number	
	16-JAN-92	PO072488-CHAMPAIGN	
	Printed	Sampled	
	30-APR-92	12-DEC-91 12:00	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-22-S01
DESCRIPTION: 06'-08' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 31-DEC-91 Instrument: AUTO-ANALYZER Test: O405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.71		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	270	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	4100	1000	mg/kg
1:100 DILUTION			

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 09-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	29.	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 07-JAN-92 Instrument: ICP Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	11.	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 09-JAN-92 Instrument: ICP Test: M112.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
COPPER	8.3	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	8100	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 06-JAN-92 Instrument: ICP Test: M116.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	5.7	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
MANGANESE	1200	1.0	mg/kg

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 09-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
NICKEL	20.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
ZINC	28.	2.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 02-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	2.9	1.00	mg/kg

1:2 dilution

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 26-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg

Parameter	Result	Det. Limit	Units
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	100		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	113		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 13-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	1300	ug/kg
ACENAPHTHYLENE	BDL	1300	ug/kg
ANTHRACENE	BDL	1300	ug/kg
BENZ(A)ANTHRACENE	BDL	1300	ug/kg
BENZO(A)PYRENE	BDL	1300	ug/kg
BENZO(B)FLUORANTHENE	BDL	1300	ug/kg
BENZO(G,H,I)PERYLENE	BDL	1300	ug/kg
BENZO(K)FLUORANTHENE	BDL	1300	ug/kg
BENZYL ALCOHOL	BDL	1300	ug/kg
BENZYLBUTYLPHTHALATE	BDL	1300	ug/kg

Parameter	Result	Det. Limit	Units
BIS(2-CHLOROETHOXY)METHANE	BDL	1300	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	1300	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	1300	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	4200	1300	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	1300	ug/kg
CARBAZOLE	BDL	1300	ug/kg
4-CHLOROANILINE	BDL	1300	ug/kg
2-CHLORONAPHTHALENE	BDL	1300	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	1300	ug/kg
CHRYSENE	BDL	1300	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	1300	ug/kg
DIBENZOFURAN	BDL	1300	ug/kg
1,2-DICHLOROBENZENE	BDL	1300	ug/kg
1,3-DICHLOROBENZENE	BDL	1300	ug/kg
1,4-DICHLOROBENZENE	BDL	1300	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	2600	ug/kg
DIETHYLPHTHALATE	BDL	1300	ug/kg
DIMETHYLPHTHALATE	BDL	1300	ug/kg
DI-N-BUTYLPHTHALATE	BDL	1300	ug/kg
DINITROBENZENES	BDL	1300	ug/kg
2,4-DINITROTOLUENE	BDL	1300	ug/kg
2,6-DINITROTOLUENE	BDL	1300	ug/kg
DI-N-OCTYLPHTHALATE	BDL	1300	ug/kg
FLUORANTHENE	BDL	1300	ug/kg
FLUORENE	EST 690	1300	ug/kg
HEXACHLOROBENZENE	BDL	1300	ug/kg
HEXACHLOROBUTADIENE	BDL	1300	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	1300	ug/kg
HEXACHLOROETHANE	BDL	1300	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	1300	ug/kg
ISOPHORONE	BDL	1300	ug/kg
2-METHYLNAPHTHALENE	BDL	1300	ug/kg
NAPHTHALENE	BDL	1300	ug/kg
2-NITROANILINE	BDL	6400	ug/kg
3-NITROANILINE	BDL	6400	ug/kg
4-NITROANILINE	BDL	6400	ug/kg
NITROBENZENE	BDL	1300	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	1300	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	1300	ug/kg
PHENANTHRENE	1500	1300	ug/kg
2-PICOLINE	BDL	6400	ug/kg
PYRENE	BDL	1300	ug/kg
PYRIDINE	BDL	6400	ug/kg
TETRACHLOROBENZENES	BDL	1300	ug/kg
TOLUENEDIAMINE	BDL	6400	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	1300	ug/kg
BENZOIC ACID	BDL	6400	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	1300	ug/kg
2-CHLOROPHENOL	BDL	1300	ug/kg
2,4-DICHLOROPHENOL	BDL	1300	ug/kg
2,4-DIMETHYLPHENOL	BDL	1300	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	6400	ug/kg
2,4-DINITROPHENOL	BDL	6400	ug/kg
2-METHYLPHENOL	BDL	1300	ug/kg
4-METHYLPHENOL	BDL	1300	ug/kg
2-NITROPHENOL	BDL	1300	ug/kg
4-NITROPHENOL	BDL	6400	ug/kg

Parameter	Result	Det. Limit	Units
PENTACHLOROPHENOL	BDL	6400	ug/kg
PHENOL	BDL	1300	ug/kg
TETRACHLOROPHENOL	BDL	1300	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1300	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	1300	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	88		% Rec
PHENOL-D5	76		% Rec
NITROBENZENE-D5	72		% Rec
2-FLUOROBIPHENYL	80		% Rec
2,4,6-TRIBROMOPHENOL	80		% Rec
TERPHENYL-D14	88		% Rec

1:4 DILUTION

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.15		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	BDL	.1	mg/kg
ACENAPHTHYLENE	BDL	.16	mg/kg
ACENAPHTHENE	BDL	.1	mg/kg
FLUORENE	2.2	.012	mg/kg
PHENANTHRENE	1.7	.1	mg/kg
ANTHRACENE	BDL	.014	mg/kg
FLUORANTHENE	BDL	.014	mg/kg
PYRENE	BDL	.05	mg/kg
BENZ(A)ANTHRACENE	BDL	.086	mg/kg
CHRYSENE	BDL	.02	mg/kg
BENZO(B)FLUORANTHENE	BDL	.02	mg/kg
BENZO(K)FLUORANTHENE	BDL	.008	mg/kg
BENZO(A)PYRENE	BDL	.15	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	.056	mg/kg
BENZO(G,H,I)PERYLENE	BDL	.094	mg/kg
INDENO(1,2,3-CD)PYRENE	BDL	.02	mg/kg

1:20 DILUTION
AMENDED REPORT 4/30/92, GAB.

Sample Comments

SAMPLE NOT HOMOGENEOUS (NI)
AMENDED REPORT 4/30/92, GAB.

BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Sample Comments

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: JaBusch

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	A244474
	Complete 13-JAN-92	PO Number PO072488-CHAMPAIGN
	Printed 14-JAN-92	Sampled 12-DEC-91 14:35

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-22-S02
DESCRIPTION: 20'-23' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065
Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 31-DEC-91 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010
Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550
Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	26.20		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7. 0

Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	1400	1000	mg/kg
1:100 DILUTION			

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

Parameter	Result	Det. Limit	Units
DICHLOROETHANE-D4	113		% Rec
TOLUENE-D8	112		% Rec
BROMOFLUOROBENZENE	119		% Rec
1:63 DILUTION			

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.99		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 09-JAN-92 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	790	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			
2-FLUOROPHENOL	65		% Rec
PHENOL-D5	75		% Rec
NITROBENZENE-D5	72		% Rec
2-FLUOROBIPHENYL	83		% Rec
2,4,6-TRIBROMOPHENOL	63		% Rec
TERPHENYL-D14	81		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.99		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0. 0

Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
NAPHTHALENE	BDL	0.005	mg/kg
ACENAPHTHYLENE	BDL	0.008	mg/kg
ACENAPHTHENE	BDL	0.005	mg/kg
FLUORENE	BDL	0.0006	mg/kg
PHENANTHRENE	0.14	0.005	mg/kg
ANTHRACENE	BDL	0.0007	mg/kg

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A244474

Parameter	Result	Det. Limit	Units
FLUORANTHENE	BDL	0.0007	mg/kg
PYRENE	BDL	0.0025	mg/kg
BENZ(A)ANTHRACENE	BDL	0.0043	mg/kg
CHRYSENE	BDL	0.001	mg/kg
BENZO(B)FLUORANTHENE	BDL	0.001	mg/kg
BENZO(K)FLUORANTHENE	BDL	0.0004	mg/kg
BENZO(A)PYRENE	BDL	0.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.0028	mg/kg
BENZO(G,H,I)PERYLENE	BDL	0.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	BDL	0.001	mg/kg

Sample Comments

BDL Below Detection Limit

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244479
	Complete	PO Number	
	13-JAN-92	PO072488-CHAMPAIGN	
	Printed	Sampled	
	30-APR-92	14-DEC-91 14:20	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-23-S01
DESCRIPTION: 06'-08' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 23-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 24-DEC-91 Instrument: AUTO-ANALYZER Test: 0405.7.0

Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	7.2	0.20	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 02-JAN-92 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 03-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	14	0.50	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	26.82		Grams
FINAL VOLUME	100		mL

1:50 dilution

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E
Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	2900	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	10000	1000	mg/kg
1:100 DILUTION			

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 10-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	77.	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	5.3	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M112.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	22.	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	13000	2.0	mg/kg

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	170	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
MANGANESE	180	1.0	mg/kg
DILUTION 1:100			

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	8.1	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
ZINC	100	2.0	mg/kg
DILUTION 1:100			

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	2.5	2.5	mg/kg
1:5 DILUTION			

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	0.33	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	48	mg/kg
ACROLEIN	BDL	120	mg/kg
ACRYLONITRILE	BDL	170	mg/kg
BENZENE	56	12	mg/kg
BROMODICHLOROMETHANE	BDL	12	mg/kg
BROMOFORM	BDL	12	mg/kg
BROMOMETHANE	BDL	25	mg/kg
CARBON DISULFIDE	BDL	12	mg/kg
CARBON TETRACHLORIDE	BDL	12	mg/kg
CHLOROBENZENE	BDL	12	mg/kg
CHLOROETHANE	BDL	25	mg/kg
CHLOROFORM	BDL	12	mg/kg
CHLOROMETHANE	BDL	25	mg/kg
DIBROMOCHLOROMETHANE	BDL	12	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	12	mg/kg
DICHLORODIFLUOROMETHANE	BDL	12	mg/kg
1,1-DICHLOROETHANE	BDL	12	mg/kg
1,2-DICHLOROETHANE	BDL	12	mg/kg
1,1-DICHLOROETHENE	BDL	12	mg/kg
1,2-DICHLOROPROPANE	BDL	12	mg/kg
ETHYLBENZENE	82	12	mg/kg
FLUOROTRICHLOROMETHANE	BDL	12	mg/kg
2-HEXANONE	BDL	25	mg/kg
METHYLENE CHLORIDE	BDL	12	mg/kg
METHYL ETHYL KETONE	BDL	25	mg/kg
4-METHYL-2-PENTANONE	BDL	25	mg/kg
STYRENE	BDL	12	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	12	mg/kg
TETRACHLOROETHENE	BDL	12	mg/kg
TETRAHYDROFURAN	BDL	60	mg/kg
TOLUENE	54	12	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	12	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	12	mg/kg
1,1,1-TRICHLOROETHANE	BDL	12	mg/kg
1,1,2-TRICHLOROETHANE	BDL	12	mg/kg
TRICHLOROETHENE	BDL	12	mg/kg
VINYL ACETATE	BDL	25	mg/kg
VINYL CHLORIDE	BDL	25	mg/kg
XYLENE (TOTAL)	100	12	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	**		% Rec
TOLUENE-D8	**		% Rec
BROMOFLUOROBENZENE	**		% Rec

1:2500 DILUTION
*NOTE: ** DILUTED OUT*

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.03		Grams
FINAL VOLUME	2.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 09-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.1

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	390000	160000	ug/kg
ACENAPHTHYLENE	BDL	160000	ug/kg
ANTHRACENE	230000	160000	ug/kg
BENZ(A)ANTHRACENE	EST 160000	160000	ug/kg
BENZO(A)PYRENE	BDL	160000	ug/kg
BENZO(B)FLUORANTHENE	BDL	160000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	160000	ug/kg
BENZO(K)FLUORANTHENE	BDL	160000	ug/kg
BENZYL ALCOHOL	BDL	160000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	160000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	160000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	160000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	160000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	160000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	160000	ug/kg
CARBAZOLE	BDL	160000	ug/kg
4-CHLOROANILINE	BDL	160000	ug/kg
2-CHLORONAPHTHALENE	BDL	160000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	160000	ug/kg
CHRYSENE	EST 160000	160000	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	160000	ug/kg
DIBENZOFURAN	BDL	160000	ug/kg
1,2-DICHLOROBENZENE	BDL	160000	ug/kg
1,3-DICHLOROBENZENE	BDL	160000	ug/kg
1,4-DICHLOROBENZENE	BDL	160000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	330000	ug/kg
DIETHYLPHTHALATE	BDL	160000	ug/kg
DIMETHYLPHTHALATE	BDL	160000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	160000	ug/kg
DINITROBENZENES	BDL	160000	ug/kg
2,4-DINITROTOLUENE	BDL	160000	ug/kg
2,6-DINITROTOLUENE	BDL	160000	ug/kg
DI-N-OCTYLPHTHALATE	BDL	160000	ug/kg
FLUORANTHENE	360000	160000	ug/kg
FLUORENE	370000	160000	ug/kg
HEXACHLOROBENZENE	BDL	160000	ug/kg
HEXACHLOROBUTADIENE	BDL	160000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	160000	ug/kg
HEXACHLOROETHANE	BDL	160000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	160000	ug/kg
ISOPHORONE	BDL	160000	ug/kg
2-METHYLNAPHTHALENE	1600000	160000	ug/kg
NAPHTHALENE	2600000	160000	ug/kg
2-NITROANILINE	BDL	800000	ug/kg
3-NITROANILINE	BDL	800000	ug/kg
4-NITROANILINE	BDL	800000	ug/kg
NITROBENZENE	BDL	160000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	160000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	160000	ug/kg
PHENANTHRENE	1000000	160000	ug/kg
2-PICOLINE	BDL	800000	ug/kg
PYRENE	630000	160000	ug/kg
PYRIDINE	BDL	800000	ug/kg

Parameter	Result	Det. Limit	Units
TETRACHLOROBENZENES	BDL	160000	ug/kg
TOLUENEDIAMINE	BDL	800000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	160000	ug/kg
BENZOIC ACID	BDL	800000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	160000	ug/kg
2-CHLOROPHENOL	BDL	160000	ug/kg
2,4-DICHLOROPHENOL	BDL	160000	ug/kg
2,4-DIMETHYLPHENOL	BDL	160000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	800000	ug/kg
2,4-DINITROPHENOL	BDL	800000	ug/kg
2-METHYLPHENOL	BDL	160000	ug/kg
4-METHYLPHENOL	BDL	160000	ug/kg
2-NITROPHENOL	BDL	160000	ug/kg
4-NITROPHENOL	BDL	800000	ug/kg
PENTACHLOROPHENOL	BDL	800000	ug/kg
PHENOL	BDL	160000	ug/kg
TETRACHLOROPHENOL	BDL	160000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	160000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	160000	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	*		% Rec
PHENOL-D5	*		% Rec
NITROBENZENE-D5	*		% Rec
2-FLUOROBIPHENYL	*		% Rec
2,4,6-TRIBROMOPHENOL	*		% Rec
TERPHENYL-D14	*		% Rec

1:250 DILUTION
*NOTE: * SURROGATES DILUTED OUT*
NOTE: FAILS INTERNAL STANDARD

SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.96		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310
Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	1800	2.5	mg/kg
ACENAPHTHYLENE	BDL	4.0	mg/kg
ACENAPHTHENE	500	2.5	mg/kg
FLUORENE	670	0.30	mg/kg
PHENANTHRENE	1000	2.5	mg/kg
ANTHRACENE	270	0.35	mg/kg
FLUORANTHENE	1400	0.35	mg/kg
PYRENE	1200	1.3	mg/kg
BENZ(A)ANTHRACENE	390	2.2	mg/kg
CHRYSENE	250	5.0	mg/kg
BENZO(B)FLUORANTHENE	180	5.0	mg/kg
BENZO(K)FLUORANTHENE	170	0.20	mg/kg
BENZO(A)PYRENE	250 5/21	3.9	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	1.4	mg/kg
BENZO(G,H,I)PERYLENE	160	2.4	mg/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244479**

Parameter	Result	Det. Limit	Units
INDENO(1,2,3-CD)PYRENE	50	5.0	mg/kg

1:500 DILUTION
MATRIX INTERFERENCES PRESENT A QUESTION OF APPLICABILITY OF THIS SAMPLE TO HPLC ANALYSIS.
AMENDED REPORT 4/30/92, GAB.

Sample Comments

DIFFERENCES BETWEEN SW-846 8310 AND 8270 DATA ARE POSSIBLY DUE TO SAMPLE NON-HOMOGENEITY; DIFFERENT SAMPLE CONTAINERS WERE USED FOR THESE METHODS. THE NATURE OF THE SAMPLE MADE HOMOGENIZATION PROBLEMATIC. COMPARISON OF SAMPLES AFTER ANALYSIS SHOW OBVIOUS VISUAL DIFFERENCES BETWEEN CONTAINERS OF THE SAME SAMPLE.
AMENDED REPORT 4/30/92, GAB.

* *See Note for Parameter*
** *See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: GABrisch

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	A244480
	Complete 13-JAN-92	PO Number PO072488-CHAMPAIGN
	Printed 14-JAN-92	Sampled 14-DEC-91 15:30

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-23-SO2
DESCRIPTION: 26'-28' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065
Analyst: M. GAUGHAN Analysis Date: 23-DEC-91 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 24-DEC-91 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.10	mg/kg

CYANIDE DISTILLATION SW846-9010
Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550
Analyst: N. HEMMERLEIN Analysis Date: 30-DEC-91 Test: P503.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	25.22		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 31-DEC-91 Instrument: IR Test: G503.7. 0

Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	4400	1000	mg/kg

1:100 DILUTION

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	0.73	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

Parameter	Result	Det. Limit	Units
DICHLOROETHANE-D4	94		% Rec
TOLUENE-D8	92		% Rec
BROMOFLUOROBENZENE	98		% Rec
1:63 DILUTION			

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.07		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270
Analyst: J. ELLIS Analysis Date: 09-JAN-92 Instrument: GC/MS SVOA Test: 0505.3. 0
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	EST 280	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			
2-FLUOROPHENOL	76		% Rec
PHENOL-D5	82		% Rec
NITROBENZENE-D5	70		% Rec
2-FLUOROBIPHENYL	74		% Rec
2,4,6-TRIBROMOPHENOL	53		% Rec
TERPHENYL-D14	75		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.07		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0. 0

Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
NAPHTHALENE	0.13	0.005	mg/kg
ACENAPHTHYLENE	BDL	0.008	mg/kg
ACENAPHTHENE	0.028	0.005	mg/kg
FLUORENE	BDL	0.0006	mg/kg
PHENANTHRENE	0.077	0.005	mg/kg
ANTHRACENE	0.016	0.0007	mg/kg

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A244480

Parameter	Result	Det. Limit	Units
FLUORANTHENE	0.16	0.0007	mg/kg
PYRENE	0.11	0.0025	mg/kg
BENZ(A)ANTHRACENE	0.035	0.0043	mg/kg
CHRYSENE	0.035	0.001	mg/kg
BENZO(B)FLUORANTHENE	BDL	0.001	mg/kg
BENZO(K)FLUORANTHENE	BDL	0.0004	mg/kg
BENZO(A)PYRENE	0.12	0.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.0028	mg/kg
BENZO(G,H,I)PERYLENE	BDL	0.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	BDL	0.001	mg/kg

Sample Comments

BDL Below Detection Limit
EST Estimated Value

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244481
	Complete	PO Number	
	13-JAN-92	PO072488-CHAMPAIGN	
	Printed	Sampled	
	30-APR-92	15-DEC-91 08:30	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-24-SO1
DESCRIPTION: 06'-08' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 23-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 24-DEC-91 Instrument: AUTO-ANALYZER Test: O405.7.0

Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	0.84	0.10	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	11	0.50	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: N. HEMMERLEIN Analysis Date: 30-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	27.70		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 31-DEC-91 Instrument: IR Test: G503.7.0

Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	350	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: K. FULLMER Analysis Date: 31-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	32000	1000	mg/kg

1:100 DILUTION

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 10-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	83.	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	11.	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M112.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	14.	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	20000	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M116.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	14.	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
MANGANESE	79.	1.0	mg/kg
DILUTION 1:100			

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	18.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
ZINC	96.	2.0	mg/kg
DILUTION 1:100			

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	5.5	2.0	mg/kg
1:4 DILUTION			

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	12	mg/kg
ACROLEIN	BDL	31	mg/kg
ACRYLONITRILE	BDL	44	mg/kg
BENZENE	BDL	3.1	mg/kg
BROMODICHLOROMETHANE	BDL	3.1	mg/kg
BROMOFORM	BDL	3.1	mg/kg
BROMOMETHANE	BDL	6.3	mg/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244481**

Parameter	Result	Det. Limit	Units
CARBON DISULFIDE	BDL	3.1	mg/kg
CARBON TETRACHLORIDE	BDL	3.1	mg/kg
CHLOROBENZENE	BDL	3.1	mg/kg
CHLOROETHANE	BDL	6.3	mg/kg
CHLOROFORM	BDL	3.1	mg/kg
CHLOROMETHANE	BDL	6.3	mg/kg
DIBROMOCHLOROMETHANE	BDL	3.1	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
DICHLORODIFLUOROMETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHANE	BDL	3.1	mg/kg
1,2-DICHLOROETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHENE	BDL	3.1	mg/kg
1,2-DICHLOROPROPANE	BDL	3.1	mg/kg
ETHYLBENZENE	8.2	3.1	mg/kg
FLUOROTRICHLOROMETHANE	BDL	3.1	mg/kg
2-HEXANONE	BDL	6.3	mg/kg
METHYLENE CHLORIDE	BDL	3.1	mg/kg
METHYL ETHYL KETONE	BDL	6.3	mg/kg
4-METHYL-2-PENTANONE	BDL	6.3	mg/kg
STYRENE	BDL	3.1	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	3.1	mg/kg
TETRACHLOROETHENE	BDL	3.1	mg/kg
TETRAHYDROFURAN	BDL	15	mg/kg
TOLUENE	BDL	3.1	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	3.1	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
1,1,1-TRICHLOROETHANE	BDL	3.1	mg/kg
1,1,2-TRICHLOROETHANE	BDL	3.1	mg/kg
TRICHLOROETHENE	BDL	3.1	mg/kg
VINYL ACETATE	BDL	6.3	mg/kg
VINYL CHLORIDE	BDL	6.3	mg/kg
XYLENE (TOTAL)	5.6	3.1	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	**		% Rec
TOLUENE-D8	**		% Rec
BROMOFLUOROBENZENE	**		% Rec

1:630 DILUTION
*NOTE: ** DILUTED OUT*

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.05		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270
Analyst: J. ELLIS Analysis Date: 09-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	EST 140000	330	ug/kg
ACENAPHTHYLENE	EST 35000	330	ug/kg
ANTHRACENE	EST 42000	330	ug/kg
BENZ(A)ANTHRACENE	EST 29000	330	ug/kg
BENZO(A)PYRENE	EST 640000	330	ug/kg

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	EST 15000	330	ug/kg
BENZO(G,H,I)PERYLENE	EST 17000	330	ug/kg
BENZO(K)FLUORANTHENE	3600	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	EST 8600	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	970	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	EST 18000	330	ug/kg
DIBENZ(A,H)ANTHRACENE	4900	330	ug/kg
DIBENZOFURAN	EST 12000	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	EST 110000	330	ug/kg
FLUORENE	EST 64000	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	EST 17000	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	EST 200000	330	ug/kg
NAPHTHALENE	EST 1000000	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	EST 200000	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	EST 86000	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	93		% Rec
PHENOL-D5	90		% Rec
NITROBENZENE-D5	447		% Rec
2-FLUOROBIPHENYL	95		% Rec
2,4,6-TRIBROMOPHENOL	274		% Rec
TERPHENYL-D14	46		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 09-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.1

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	100000	82000	ug/kg
ACENAPHTHYLENE	BDL	82000	ug/kg
ANTHRACENE	BDL	82000	ug/kg
BENZ(A)ANTHRACENE	BDL	82000	ug/kg
BENZO(A)PYRENE	BDL	82000	ug/kg
BENZO(B)FLUORANTHENE	BDL	82000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	82000	ug/kg
BENZO(K)FLUORANTHENE	BDL	82000	ug/kg
BENZYL ALCOHOL	BDL	82000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	82000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	82000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	82000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	82000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	82000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	82000	ug/kg
CARBAZOLE	BDL	82000	ug/kg
4-CHLOROANILINE	BDL	82000	ug/kg
2-CHLORONAPHTHALENE	BDL	82000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	82000	ug/kg
CHRYSENE	BDL	82000	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	82000	ug/kg
DIBENZOFURAN	BDL	82000	ug/kg
1,2-DICHLOROBENZENE	BDL	82000	ug/kg
1,3-DICHLOROBENZENE	BDL	82000	ug/kg
1,4-DICHLOROBENZENE	BDL	82000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	160000	ug/kg
DIETHYLPHTHALATE	BDL	82000	ug/kg
DIMETHYLPHTHALATE	BDL	82000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	82000	ug/kg
DINITROBENZENES	BDL	82000	ug/kg
2,4-DINITROTOLUENE	BDL	82000	ug/kg
2,6-DINITROTOLUENE	BDL	82000	ug/kg
DI-N-OCTYLPHTHALATE	BDL	82000	ug/kg

Parameter	Result	Det. Limit	Units
FLUORANTHENE	68000	82000	ug/kg
FLUORENE	EST 57000	82000	ug/kg
HEXACHLOROBENZENE	BDL	82000	ug/kg
HEXACHLOROBUTADIENE	BDL	82000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	82000	ug/kg
HEXACHLOROETHANE	BDL	82000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	82000	ug/kg
ISOPHORONE	BDL	82000	ug/kg
2-METHYLNAPHTHALENE	110000	82000	ug/kg
NAPHTHALENE	490000	82000	ug/kg
2-NITROANILINE	BDL	400000	ug/kg
3-NITROANILINE	BDL	400000	ug/kg
4-NITROANILINE	BDL	400000	ug/kg
NITROBENZENE	BDL	82000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	82000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	82000	ug/kg
PHENANTHRENE	56000	82000	ug/kg
2-PICOLINE	BDL	400000	ug/kg
PYRENE	110000	82000	ug/kg
PYRIDINE	BDL	400000	ug/kg
TETRACHLOROBENZENES	BDL	82000	ug/kg
TOLUENEDIAMINE	BDL	400000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	82000	ug/kg
BENZOIC ACID	BDL	400000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	82000	ug/kg
2-CHLOROPHENOL	BDL	82000	ug/kg
2,4-DICHLOROPHENOL	BDL	82000	ug/kg
2,4-DIMETHYLPHENOL	BDL	82000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	400000	ug/kg
2,4-DINITROPHENOL	BDL	400000	ug/kg
2-METHYLPHENOL	BDL	82000	ug/kg
4-METHYLPHENOL	BDL	82000	ug/kg
2-NITROPHENOL	BDL	82000	ug/kg
4-NITROPHENOL	BDL	400000	ug/kg
PENTACHLOROPHENOL	BDL	400000	ug/kg
PHENOL	BDL	82000	ug/kg
TETRACHLOROPHENOL	BDL	82000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	82000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	82000	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		% Rec
PHENOL-D5	*		% Rec
NITROBENZENE-D5	*		% Rec
2-FLUOROBIPHENYL	*		% Rec
2,4,6-TRIBROMOPHENOL	*		% Rec
TERPHENYL-D14	*		% Rec

1:250 DILUTION
*NOTE: * SURROGATES DILUTED OUT*
NOTE: FAILS INTERNAL STANDARD

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244481**

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	31.05		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.1.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	430	1.0	mg/kg
ACENAPHTHYLENE	28 BDL	1.6	mg/kg
ACENAPHTHENE	120	1.0	mg/kg
FLUORENE	100	.12	mg/kg
PHENANTHRENE	160 200	1.0	mg/kg
ANTHRACENE	64	.14	mg/kg
FLUORANTHENE	110 140	.14	mg/kg
PYRENE	81 200	.5	mg/kg
BENZ(A)ANTHRACENE	47 69	.86	mg/kg
CHRYSENE	35 46	.20	mg/kg
BENZO(B)FLUORANTHENE	21 33	.20	mg/kg
BENZO(K)FLUORANTHENE	16 50	.08	mg/kg
BENZO(A)PYRENE	46 86	1.5	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	.56	mg/kg
BENZO(G,H,I)PERYLENE	23 33	.94	mg/kg
INDENO(1,2,3-CD)PYRENE	16 21	.20	mg/kg

1:200 DILUTION
MATRIX INTERFERENCES PRESENT A QUESTION OF APPLICABILITY OF THIS SAMPLE TO HPLC ANALYSIS.
AMENDED REPORT 4/30/92, GAB.

Sample Comments

DIFFERENCE BETWEEN SW-846 8310 AND 8270 DATA ARE POSSIBLY DUE TO SAMPLE NON-HOMOGENEITY; DIFFERENT SAMPLE CONTAINERS WERE USED FOR THESE METHODS. THE NATURE OF THE SAMPLE MADE HOMOGENIZATION PROBLEMATIC. COMPARISON OF SAMPLES AFTER ANALYSIS SHOW OBVIOUS VISUAL DIFFERENCES BETWEEN CONTAINERS OF THE SAME SAMPLE.
AMENDED REPORT 4/30/92, GAB.

* See Note for Parameter
** See Note for Parameter
BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: G.W. Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	A244482
	Complete 13-JAN-92	PO Number PO072488-CHAMPAIGN
	Printed 14-JAN-92	Sampled 15-DEC-91 09:00

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-24-SO2
DESCRIPTION: 21'-23' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065
Analyst: R. RIFE Analysis Date: 03-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 07-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010
Analyst: J. GRIFFIN Analysis Date: 02-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 03-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550
Analyst: N. HEMMERLEIN Analysis Date: 30-DEC-91 Test: P503.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	28.87		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 31-DEC-91 Instrument: IR Test: G503.7. 0

Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	2000	1000	mg/kg

1:100 DILUTION

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	0.61	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

Parameter	Result	Det. Limit	Units
DICHLOROETHANE-D4	98		% Rec
TOLUENE-D8	94		% Rec
BROMOFLUOROBENZENE	95		% Rec
1:63 DILUTION			

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.09		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 09-JAN-92 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	1500	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	EST 230	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
2-METHYLNAPHTHALENE	EST 290	330	ug/kg
NAPHTHALENE	760	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	520	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	EST 310	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			
2-FLUOROPHENOL	73		% Rec
PHENOL-D5	71		% Rec
NITROBENZENE-D5	61		% Rec
2-FLUOROBIPHENYL	67		% Rec
2,4,6-TRIBROMOPHENOL	46		% Rec
TERPHENYL-D14	71		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.11		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0. 0

Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
NAPHTHALENE	0.46	0.005	mg/kg
ACENAPHTHYLENE	0.047	0.008	mg/kg
ACENAPHTHENE	0.084	0.005	mg/kg
FLUORENE	0.089	0.0006	mg/kg
PHENANTHRENE	0.27	0.005	mg/kg
ANTHRACENE	0.074	0.0007	mg/kg

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A244482

Parameter	Result	Det. Limit	Units
FLUORANTHENE	0.34	0.0007	mg/kg
PYRENE	0.35	0.0025	mg/kg
BENZ(A)ANTHRACENE	0.10	0.0043	mg/kg
CHRYSENE	0.073	0.001	mg/kg
BENZO(B)FLUORANTHENE	BDL	0.001	mg/kg
BENZO(K)FLUORANTHENE	BDL	0.0004	mg/kg
BENZO(A)PYRENE	0.20	0.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.0028	mg/kg
BENZO(G,H,I)PERYLENE	0.15	0.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	0.063	0.001	mg/kg

Sample Comments

BDL Below Detection Limit
EST Estimated Value

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244477
	Complete: 16-JAN-92	PO Number: PO072488-CHAMPAIGN	
	Printed: 30-APR-92	Sampled: 14-DEC-91 09:00	

Report To

KATHLEEN A. BLAINE
JOHN MATHES AND ASSOCIATES
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ACCOUNTS PAYABLE
ILLINOIS POWER COMPANY
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-25-S01
DESCRIPTION: 09'-11' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: R. RIFE Analysis Date: 03-JAN-92 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 07-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	1.5	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	0.80	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	27.51		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	69	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: K. FULLMER Analysis Date: 31-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	18000	1000	mg/kg
1:100 DILUTION			

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 10-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	55.	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	8.6	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M112.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	11.	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	12000	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M116.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	8.9	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
MANGANESE	560	1.0	mg/kg

DILUTION 1:100

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	14.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
ZINC	42.	2.0	mg/kg

DILUTION 1:100

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	3.7	2.5	mg/kg

1:5 DILUTION

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	2.7	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg

Parameter	Result	Det. Limit	Units
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	9.5	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	4.0	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	12	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	116		% Rec
TOLUENE-D8	92		% Rec
BROMOFLUOROBENZENE	91		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.97		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 08-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	EST 53000	330	ug/kg
ACENAPHTHYLENE	EST 13000	330	ug/kg
ANTHRACENE	37000	330	ug/kg
BENZ(A)ANTHRACENE	EST 13000	330	ug/kg
BENZO(A)PYRENE	EST 6800	330	ug/kg
BENZO(B)FLUORANTHENE	5200	330	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244477**

Parameter	Result	Det. Limit	Units
BENZO(G,H,I)PERYLENE	EST 5600	330	ug/kg
BENZO(K)FLUORANTHENE	2000	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	EST 9200	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	1300	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	EST 8100	330	ug/kg
DIBENZ(A,H)ANTHRACENE	1300	330	ug/kg
DIBENZOFURAN	5200	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	EST 51000	330	ug/kg
FLUORENE	EST 38000	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	EST 5400	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	EST 190000	330	ug/kg
NAPHTHALENE	EST 290000	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	EST 174000	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	EST 34000	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
2-METHYLPHENOL	EST 240	330	ug/kg
4-METHYLPHENOL	EST 320	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	EST 200	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	84		% Rec
PHENOL-D5	94		% Rec
NITROBENZENE-D5	215		% Rec
2-FLUOROBIPHENYL	78		% Rec
2,4,6-TRIBROMOPHENOL	152		% Rec
TERPHENYL-D14	68		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 13-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.1

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	130000	ug/kg
ACENAPHTHYLENE	BDL	130000	ug/kg
ANTHRACENE	BDL	130000	ug/kg
BENZ(A)ANTHRACENE	BDL	130000	ug/kg
BENZO(A)PYRENE	BDL	130000	ug/kg
BENZO(B)FLUORANTHENE	BDL	130000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	130000	ug/kg
BENZO(K)FLUORANTHENE	BDL	130000	ug/kg
BENZYL ALCOHOL	BDL	130000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	130000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	130000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	130000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	130000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	130000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	130000	ug/kg
CARBAZOLE	BDL	130000	ug/kg
4-CHLOROANILINE	BDL	130000	ug/kg
2-CHLORONAPHTHALENE	BDL	130000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	130000	ug/kg
CHRYSENE	BDL	130000	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	130000	ug/kg
DIBENZOFURAN	BDL	130000	ug/kg
1,2-DICHLOROBENZENE	BDL	130000	ug/kg
1,3-DICHLOROBENZENE	BDL	130000	ug/kg
1,4-DICHLOROBENZENE	BDL	130000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	260000	ug/kg
DIETHYLPHTHALATE	BDL	130000	ug/kg
DIMETHYLPHTHALATE	BDL	130000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	130000	ug/kg
DINITROBENZENES	BDL	130000	ug/kg
2,4-DINITROTOLUENE	BDL	130000	ug/kg
2,6-DINITROTOLUENE	BDL	130000	ug/kg
DI-N-OCTYLPHTHALATE	BDL	130000	ug/kg
FLUORANTHENE	BDL	130000	ug/kg

Parameter	Result	Det. Limit	Units
FLUORENE	BDL	130000	ug/kg
HEXACHLOROBENZENE	BDL	130000	ug/kg
HEXACHLOROBUTADIENE	BDL	130000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	130000	ug/kg
HEXACHLOROETHANE	BDL	130000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	130000	ug/kg
ISOPHORONE	BDL	130000	ug/kg
2-METHYLNAPHTHALENE	120000	130000	ug/kg
NAPHTHALENE	380000	130000	ug/kg
2-NITROANILINE	BDL	640000	ug/kg
3-NITROANILINE	BDL	640000	ug/kg
4-NITROANILINE	BDL	640000	ug/kg
NITROBENZENE	BDL	130000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	130000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	130000	ug/kg
PHENANTHRENE	EST 68000	130000	ug/kg
2-PICOLINE	BDL	640000	ug/kg
PYRENE	BDL	130000	ug/kg
PYRIDINE	BDL	640000	ug/kg
TETRACHLOROBENZENES	BDL	130000	ug/kg
TOLUENEDIAMINE	BDL	640000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	130000	ug/kg
BENZOIC ACID	BDL	640000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	130000	ug/kg
2-CHLOROPHENOL	BDL	130000	ug/kg
2,4-DICHLOROPHENOL	BDL	130000	ug/kg
2,4-DIMETHYLPHENOL	BDL	130000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	640000	ug/kg
2,4-DINITROPHENOL	BDL	640000	ug/kg
2-METHYLPHENOL	BDL	130000	ug/kg
4-METHYLPHENOL	BDL	130000	ug/kg
2-NITROPHENOL	BDL	130000	ug/kg
4-NITROPHENOL	BDL	640000	ug/kg
PENTACHLOROPHENOL	BDL	640000	ug/kg
PHENOL	BDL	130000	ug/kg
TETRACHLOROPHENOL	BDL	130000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	130000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	130000	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		% Rec
PHENOL-D5	*		% Rec
NITROBENZENE-D5	*		% Rec
2-FLUOROBIPHENYL	*		% Rec
2,4,6-TRIBROMOPHENOL	*		% Rec
TERPHENYL-D14	*		% Rec

1:400 DILUTION
*NOTE: * SURROGATES DILUTED OUT*

SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.13		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	320	1.0	mg/kg
ACENAPHTHYLENE	14 BDL	1.6	mg/kg
ACENAPHTHENE	37	1.011	mg/kg
FLUORENE	38	0.12	mg/kg
PHENANTHRENE	65	1.0	mg/kg
ANTHRACENE	20	0.12	mg/kg
FLUORANTHENE	82	0.14	mg/kg
PYRENE	69	0.50	mg/kg
BENZ(A)ANTHRACENE	22	0.86	mg/kg
CHRYSENE	14	0.20	mg/kg
BENZO(B)FLUORANTHENE	9.2	0.20	mg/kg
BENZO(K)FLUORANTHENE	8.1	0.080	mg/kg
BENZO(A)PYRENE	23	1.5	mg/kg
DIBENZO(A,H)ANTHRACENE	EST 0.16 BDL	0.56	mg/kg
BENZO(G,H,I)PERYLENE	12	0.94	mg/kg
INDENO(1,2,3-CD)PYRENE	5.8	0.20	mg/kg

1:200 DILUTION
MATRIX INTERFERENCES PRESENT A QUESTION OF APPLICABILITY OF THIS SAMPLE TO HPLC ANALYSIS.
AMENDED REPORT 4/30/92, GAB.

Sample Comments

DIFFERENCES BETWEEN SW-846 8310 AND 8270 DATA ARE POSSIBLY DUE TO SAMPLE NON-HOMOGENEITY; DIFFERENT SAMPLE CONTAINERS WERE USED FOR THESE METHODS. THE NATURE OF THE SAMPLE MADE HOMOGENIZATION PROBLEMATIC. COMPARISON OF SAMPLES AFTER ANALYSIS SHOW OBVIOUS VISUAL DIFFERENCES BETWEEN CONTAINERS OF THE SAME SAMPLE.
AMENDED REPORT 4/30/92, GAB.

* *See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: GABusch

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	A244478
	Complete 13-JAN-92	PO Number PO072488-CHAMPAIGN
	Printed 14-JAN-92	Sampled 14-DEC-91 09:30

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-25-SO2
DESCRIPTION: 26'-28' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065
Analyst: R. RIFE Analysis Date: 03-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 07-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010
Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 30-DEC-91 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550
Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Test: P503.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	26.00		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 27-DEC-91 Instrument: IR Test: G503.7. 0

Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	2800	1000	mg/kg

1:100 DILUTION

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 24-DEC-91 Instrument: GC/MS VOA Test: O510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

Parameter	Result	Det. Limit	Units
DICHLOROETHANE-D4	119		% Rec
TOLUENE-D8	112		% Rec
BROMOFLUOROBENZENE	115		% Rec
1:63 DILUTION			

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.07		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270
Analyst: J. ELLIS Analysis Date: 09-JAN-92 Instrument: GC/MS SVOA Test: 0505.3. 0
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	670	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	390	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
.			
SURROGATE RECOVERY			
2-FLUOROPHENOL	60		% Rec
PHENOL-D5	66		% Rec
NITROBENZENE-D5	55		% Rec
2-FLUOROBIPHENYL	58		% Rec
2,4,6-TRIBROMOPHENOL	79		% Rec
TERPHENYL-D14	61		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.91		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0. 0

Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550

Parameter	Result	Det. Limit	Units
NAPHTHALENE	0.35	0.005	mg/kg
ACENAPHTHYLENE	BDL	0.008	mg/kg
ACENAPHTHENE	0.034	0.005	mg/kg
FLUORENE	0.59	0.0006	mg/kg
PHENANTHRENE	0.097	0.005	mg/kg
ANTHRACENE	0.023	0.0007	mg/kg

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A244478

Parameter	Result	Det. Limit	Units
FLUORANTHENE	0.22	0.0007	mg/kg
PYRENE	0.19	0.0025	mg/kg
BENZ(A)ANTHRACENE	BDL	0.0043	mg/kg
CHRYSENE	BDL	0.001	mg/kg
BENZO(B)FLUORANTHENE	BDL	0.001	mg/kg
BENZO(K)FLUORANTHENE	BDL	0.0004	mg/kg
BENZO(A)PYRENE	0.27	0.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.0028	mg/kg
BENZO(G,H,I)PERYLENE	0.047	0.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	BDL	0.001	mg/kg

Sample Comments

BDL Below Detection Limit

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244483
	Complete	PO Number	
	14-JAN-92	PO072488-CHAMPAIGN	
	Printed	Sampled	
	30-APR-92	15-DEC-91 13:30	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-26-SO1
DESCRIPTION: 06'-08' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 23-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 24-DEC-91 Instrument: AUTO-ANALYZER Test: O405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	0.15	0.10	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 03-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: N. HEMMERLEIN Analysis Date: 30-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	26.46		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 31-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	160	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	6800	1000	mg/kg
1:100 DILUTION			

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 10-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	44.	1.0	mg/kg

CADMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	7.9	1.0	mg/kg

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	8.8	2.0	mg/kg

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	12000	2.0	mg/kg

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	9.4	5.0	mg/kg

MANGANESE ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M119.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
MANGANESE	860	1.0	mg/kg
DILUTION 1:100			

NICKEL ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M122.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	15.	1.0	mg/kg

ZINC ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M139.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
ZINC	44.	2.0	mg/kg
DILUTION 1:100			

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060
Analyst: W. WATNESS Analysis Date: 04-JAN-92 Instrument: GFAA Test: M103.2.0
Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	4.7	2.0	mg/kg
1:4 DILUTION			

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD
Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD
Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0
Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240
Analyst: R. SHAMP Analysis Date: 08-JAN-92 Instrument: GC/MS VOA Test: O510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	0.58	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244483**

Parameter	Result	Det. Limit	Units
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	EST 22	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	0.38	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	2.3	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	69		% Rec
TOLUENE-D8	86		% Rec
BROMOFLUOROBENZENE	100		% Rec
PACKED COLUMN METHOD 8240 HAS BEEN REPLACED BY CAPILLARY COLUMN METHOD 8260 ON THIS INSTRUMENT			

1:63 DILUTION FACTOR
SAMPLE WILL BE RERUN FOR DILUTION AND SURROGATE RECOVERY. ALSO SAMPLE WAS RUN OUTSIDE OF HOLDING TIME.

VOLATILE ORGANICS SW846-8240
Analyst: R. SHAMP Analysis Date: 10-JAN-92 Instrument: GC/MS VOA Test: 0510.3.1

Parameter	Result	Det. Limit	Units
ACETONE	BDL	12	mg/kg
ACROLEIN	BDL	31	mg/kg
ACRYLONITRILE	BDL	44	mg/kg
BENZENE	BDL	3.1	mg/kg
BROMODICHLOROMETHANE	BDL	3.1	mg/kg
BROMOFORM	BDL	3.1	mg/kg
BROMOMETHANE	BDL	6.3	mg/kg
CARBON DISULFIDE	BDL	3.1	mg/kg
CARBON TETRACHLORIDE	BDL	3.1	mg/kg

Parameter	Result	Det. Limit	Units
CHLOROBENZENE	BDL	3.1	mg/kg
CHLOROETHANE	BDL	6.3	mg/kg
CHLOROFORM	BDL	3.1	mg/kg
CHLOROMETHANE	BDL	6.3	mg/kg
DIBROMOCHLOROMETHANE	BDL	3.1	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
DICHLORODIFLUOROMETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHANE	BDL	3.1	mg/kg
1,2-DICHLOROETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHENE	BDL	3.1	mg/kg
1,2-DICHLOROPROPANE	BDL	3.1	mg/kg
ETHYLBENZENE	20	3.1	mg/kg
FLUOROTRICHLOROMETHANE	BDL	3.1	mg/kg
2-HEXANONE	BDL	6.3	mg/kg
METHYLENE CHLORIDE	BDL	3.1	mg/kg
METHYL ETHYL KETONE	BDL	6.3	mg/kg
4-METHYL-2-PENTANONE	BDL	6.3	mg/kg
STYRENE	BDL	3.1	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	3.1	mg/kg
TETRACHLOROETHENE	BDL	3.1	mg/kg
TETRAHYDROFURAN	BDL	15	mg/kg
TOLUENE	BDL	3.1	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	3.1	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
1,1,1-TRICHLOROETHANE	BDL	3.1	mg/kg
1,1,2-TRICHLOROETHANE	BDL	3.1	mg/kg
TRICHLOROETHENE	BDL	3.1	mg/kg
VINYL ACETATE	BDL	6.3	mg/kg
VINYL CHLORIDE	BDL	6.3	mg/kg
XYLENE (TOTAL)	BDL	3.1	mg/kg
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	*		% Rec
TOLUENE-D8	*		% Rec
BROMOFLUOROBENZENE	*		% Rec
PACKED COLUMN METHOD 8240 HAS BEEN REPLACED BY CAPILLARY COLUMN METHOD 8260 ON THIS INSTRUMENT			

1:630 DILUTION
*NOTE: * SURROGATES DILUTED OUT*

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: N. ROHADFOX Analysis Date: 24-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.92		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270
Analyst: J. ELLIS Analysis Date: 09-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.1
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	17000	3300	ug/kg
ACENAPHTHYLENE	BDL	3300	ug/kg
ANTHRACENE	8100	3300	ug/kg
BENZ(A)ANTHRACENE	4300	3300	ug/kg
BENZO(A)PYRENE	4300	3300	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244483**

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	3300	ug/kg
BENZO(G,H,I)PERYLENE	BDL	3300	ug/kg
BENZO(K)FLUORANTHENE	BDL	3300	ug/kg
BENZYL ALCOHOL	BDL	3300	ug/kg
BENZYLBUTYLPHTHALATE	BDL	3300	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	3300	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	3300	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	3300	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	5900	3300	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	3300	ug/kg
CARBAZOLE	BDL	3300	ug/kg
4-CHLOROANILINE	BDL	3300	ug/kg
2-CHLORONAPHTHALENE	BDL	3300	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	3300	ug/kg
CHRYSENE	4100	3300	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	3300	ug/kg
DIBENZOFURAN	2200	3300	ug/kg
1,2-DICHLOROBENZENE	BDL	3300	ug/kg
1,3-DICHLOROBENZENE	BDL	3300	ug/kg
1,4-DICHLOROBENZENE	BDL	3300	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	6600	ug/kg
DIETHYLPHTHALATE	BDL	3300	ug/kg
DIMETHYLPHTHALATE	BDL	3300	ug/kg
DI-N-BUTYLPHTHALATE	BDL	3300	ug/kg
DINITROBENZENES	BDL	3300	ug/kg
2,4-DINITROTOLUENE	BDL	3300	ug/kg
2,6-DINITROTOLUENE	BDL	3300	ug/kg
DI-N-OCTYLPHTHALATE	BDL	3300	ug/kg
FLUORANTHENE	9500	3300	ug/kg
FLUORENE	8800	3300	ug/kg
HEXACHLOROBENZENE	BDL	3300	ug/kg
HEXACHLOROBUTADIENE	BDL	3300	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	3300	ug/kg
HEXACHLOROETHANE	BDL	3300	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	3300	ug/kg
ISOPHORONE	BDL	3300	ug/kg
2-METHYLNAPHTHALENE	BDL	3300	ug/kg
NAPHTHALENE	45000	3300	ug/kg
2-NITROANILINE	BDL	16000	ug/kg
3-NITROANILINE	BDL	16000	ug/kg
4-NITROANILINE	BDL	16000	ug/kg
NITROBENZENE	BDL	3300	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	3300	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	3300	ug/kg
PHENANTHRENE	27000	3300	ug/kg
2-PICOLINE	BDL	16000	ug/kg
PYRENE	17000	3300	ug/kg
PYRIDINE	BDL	16000	ug/kg
TETRACHLOROBENZENES	BDL	3300	ug/kg
TOLUENEDIAMINE	BDL	16000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	3300	ug/kg
BENZOIC ACID	BDL	16000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	3300	ug/kg
2-CHLOROPHENOL	BDL	3300	ug/kg
2,4-DICHLOROPHENOL	BDL	3300	ug/kg
2,4-DIMETHYLPHENOL	BDL	3300	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	16000	ug/kg

Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	16000	ug/kg
2-METHYLPHENOL	BDL	3300	ug/kg
4-METHYLPHENOL	BDL	3300	ug/kg
2-NITROPHENOL	BDL	3300	ug/kg
4-NITROPHENOL	BDL	16000	ug/kg
PENTACHLOROPHENOL	BDL	16000	ug/kg
PHENOL	BDL	3300	ug/kg
TETRACHLOROPHENOL	BDL	3300	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	3300	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	3300	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		% Rec
PHENOL-D5	*		% Rec
NITROBENZENE-D5	*		% Rec
2-FLUOROBIPHENYL	*		% Rec
2,4,6-TRIBROMOPHENOL	*		% Rec
TERPHENYL-D14	*		% Rec

1:10 DILUTION
*NOTE: * SURROGATES DILUTED OUT*
NOTE: FAILS INTERNAL STANDARD

SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.32		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310
Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	72	1.0	mg/kg
ACENAPHTHYLENE	BDL	1.6	mg/kg
ACENAPHTHENE	29	1.0	mg/kg
FLUORENE	17	0.12	mg/kg
PHENANTHRENE	42	1.0	mg/kg
ANTHRACENE	12	0.14	mg/kg
FLUORANTHENE	40 60	0.14	mg/kg
PYRENE	14 52	0.50	mg/kg
BENZ(A)ANTHRACENE	9.4	0.86	mg/kg
CHRYSENE	7.5	0.20	mg/kg
BENZO(B)FLUORANTHENE	4.5	0.20	mg/kg
BENZO(K)FLUORANTHENE	3.4	0.080	mg/kg
BENZO(A)PYRENE	12	1.5	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	0.56	mg/kg
BENZO(G,H,I)PERYLENE	12	0.94	mg/kg
INDENO(1,2,3-CD)PYRENE	3.4	0.20	mg/kg

1:200 DILUTION
MATRIX INTERFERENCES PRESENT A QUESTION OF APPLICABILITY OF THIS SAMPLE TO HPLC ANALYSIS.
AMENDED REPORT 4/30/92, GAB.

Sample Comments

DIFFERENCES BETWEEN SW-846 8310 AND 8270 DATA ARE POSSIBLY DUE TO SAMPLE NON-HOMOGENEITY; DIFFERENT SAMPLE CONTAINERS WERE USED FOR THESE METHODS. THE NATURE OF THE SAMPLE MADE HOMOGENIZATION PROBLEMATIC. COMPARISON OF SAMPLES AFTER ANALYSIS SHOW OBVIOUS VISUAL DIFFERENCES BETWEEN CONTAINERS OF THE SAME SAMPLE.
AMENDED REPORT 4/30/92, GAB.

* See Note for Parameter
BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: G.A. Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244484
	Complete 16-JAN-92	PO Number PO072488-CHAMPAIGN	
	Printed 08-MAY-92	Sampled 15-DEC-91 15:10	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-26-SO2
DESCRIPTION: 21'-23' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: R. RIFE Analysis Date: 03-JAN-92 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 07-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 02-JAN-92 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 03-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: N. HEMMERLEIN Analysis Date: 30-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	25.02		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 31-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	3700	1000	mg/kg

1:100 DILUTION

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 27-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	102		% Rec
TOLUENE-D8	102		% Rec
BROMOFLUOROBENZENE	96		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: N. ROHADFOX Analysis Date: 27-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.01		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270
Analyst: J. ELLIS Analysis Date: 13-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0
Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	350	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	82		% Rec
PHENOL-D5	77		% Rec
NITROBENZENE-D5	68		% Rec
2-FLUOROBIPHENYL	68		% Rec
2,4,6-TRIBROMOPHENOL	67		% Rec
TERPHENYL-D14	98		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.20		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	0.015	.005	mg/kg
ACENAPHTHYLENE	BDL	.008	mg/kg
ACENAPHTHENE	BDL	.005	mg/kg
FLUORENE	BDL	.0006	mg/kg
PHENANTHRENE	0.022	.005	mg/kg
ANTHRACENE	0.0020	.0007	mg/kg
FLUORANTHENE	BDL	.0007	mg/kg
PYRENE	0.22	.0025	mg/kg
BENZ(A)ANTHRACENE	BDL	.0043	mg/kg
CHRYSENE	0.022	.001	mg/kg
BENZO(B)FLUORANTHENE	BDL	.001	mg/kg

HERITAGE LABORATORIES, INC. **Lab Sample ID: A244484**

Parameter	Result	Det. Limit	Units
BENZO(K)FLUORANTHENE	BDL	.0004	mg/kg
BENZO(A)PYRENE	BDL	.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	BDL	.0028	mg/kg
BENZO(G,H,I)PERYLENE	BDL	.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	BDL	.001	mg/kg

AMENDED REPORT 5/8/92, GAB.
CORRECTED DETECTION LIMITS.

Sample Comments

BDL Below Detection Limit

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: G A Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244485
	Complete: 17-JAN-92	PO Number: PO072488-CHAMPAIGN	
	Printed: 30-APR-92	Sampled: 16-DEC-91 10:10	

Report To

KATHLEEN A. BLAINE
JOHN MATHES AND ASSOCIATES
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ACCOUNTS PAYABLE
ILLINOIS POWER COMPANY
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-27-S01
DESCRIPTION: 06'-08' IMPACTED
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 23-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 24-DEC-91 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	6.0	0.20	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 03-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	5.3	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: N. HEMMERLEIN Analysis Date: 30-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	25.11		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 31-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	160	10	mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: K. FULLMER Analysis Date: 27-DEC-91 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	7800	1000	mg/kg
1:100 DILUTION			

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 27-DEC-91 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050
Analyst: J. VANSKYOCK Analysis Date: 10-JAN-92 Test: P129.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	88.	1.0	mg/kg

CADMIUM ICP SW846-6010
Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	10.	1.0	mg/kg

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M112.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	13.	2.0	mg/kg

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M115.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	12000	2.0	mg/kg

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 31-DEC-91 Instrument: ICP Test: M116.3.0
Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	13.	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
MANGANESE	210	1.0	mg/kg
DILUTION 1:100			

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 08-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	15.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 12-JAN-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.1

Parameter	Result	Det. Limit	Units
ZINC	43.	2.0	mg/kg
DILUTION 1:100			

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: J. VANSKYOCK Analysis Date: 23-DEC-91 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	5.4	2.0	mg/kg
1:4 DILUTION			

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: K. HACK Analysis Date: 26-DEC-91 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 27-DEC-91 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	12	mg/kg
ACROLEIN	BDL	31	mg/kg
ACRYLONITRILE	BDL	44	mg/kg
BENZENE	12	3.1	mg/kg
BROMODICHLOROMETHANE	BDL	3.1	mg/kg
BROMOFORM	BDL	3.1	mg/kg
BROMOMETHANE	BDL	6.3	mg/kg

Parameter	Result	Det. Limit	Units
CARBON DISULFIDE	BDL	3.1	mg/kg
CARBON TETRACHLORIDE	BDL	3.1	mg/kg
CHLOROBENZENE	BDL	3.1	mg/kg
CHLOROETHANE	BDL	6.3	mg/kg
CHLOROFORM	BDL	3.1	mg/kg
CHLOROMETHANE	BDL	6.3	mg/kg
DIBROMOCHLOROMETHANE	BDL	3.1	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
DICHLORODIFLUOROMETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHANE	BDL	3.1	mg/kg
1,2-DICHLOROETHANE	BDL	3.1	mg/kg
1,1-DICHLOROETHENE	BDL	3.1	mg/kg
1,2-DICHLOROPROPANE	BDL	3.1	mg/kg
ETHYLBENZENE	7.4	3.1	mg/kg
FLUOROTRICHLOROMETHANE	BDL	3.1	mg/kg
2-HEXANONE	BDL	6.3	mg/kg
METHYLENE CHLORIDE	BDL	3.1	mg/kg
METHYL ETHYL KETONE	BDL	6.3	mg/kg
4-METHYL-2-PENTANONE	BDL	6.3	mg/kg
STYRENE	11	3.1	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	3.1	mg/kg
TETRACHLOROETHENE	BDL	3.1	mg/kg
TETRAHYDROFURAN	BDL	15	mg/kg
TOLUENE	22	3.1	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	3.1	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	3.1	mg/kg
1,1,1-TRICHLOROETHANE	BDL	3.1	mg/kg
1,1,2-TRICHLOROETHANE	BDL	3.1	mg/kg
TRICHLOROETHENE	BDL	3.1	mg/kg
VINYL ACETATE	BDL	6.3	mg/kg
VINYL CHLORIDE	BDL	6.3	mg/kg
XYLENE (TOTAL)	35	3.1	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	108		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	109		% Rec

1:630 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 27-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 11-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	EST 37000	660	ug/kg
ACENAPHTHYLENE	EST 12000	660	ug/kg
ANTHRACENE	EST 45000	660	ug/kg
BENZ(A)ANTHRACENE	EST 36000	660	ug/kg
BENZO(A)PYRENE	EST 14000	660	ug/kg
BENZO(B)FLUORANTHENE	EST 13000	660	ug/kg

Parameter	Result	Det. Limit	Units
BENZO(G,H,I)PERYLENE	EST 11000	660	ug/kg
BENZO(K)FLUORANTHENE	4800	660	ug/kg
BENZYL ALCOHOL	BDL	660	ug/kg
BENZYLBUTYLPHTHALATE	BDL	660	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	660	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	660	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	660	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	2400	660	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	660	ug/kg
CARBAZOLE	2600	660	ug/kg
4-CHLOROANILINE	BDL	660	ug/kg
2-CHLORONAPHTHALENE	BDL	660	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	660	ug/kg
CHRYSENE	EST 22000	660	ug/kg
DIBENZ(A,H)ANTHRACENE	2300	660	ug/kg
DIBENZOFURAN	EST 15000	660	ug/kg
1,2-DICHLOROBENZENE	BDL	660	ug/kg
1,3-DICHLOROBENZENE	BDL	660	ug/kg
1,4-DICHLOROBENZENE	BDL	660	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	1300	ug/kg
DIETHYLPHTHALATE	BDL	660	ug/kg
DIMETHYLPHTHALATE	BDL	660	ug/kg
DI-N-BUTYLPHTHALATE	BDL	660	ug/kg
DINITROBENZENES	BDL	660	ug/kg
2,4-DINITROTOLUENE	BDL	660	ug/kg
2,6-DINITROTOLUENE	BDL	660	ug/kg
DI-N-OCTYLPHTHALATE	BDL	660	ug/kg
FLUORANTHENE	EST 49000	660	ug/kg
FLUORENE	EST 35000	660	ug/kg
HEXACHLOROBENZENE	BDL	660	ug/kg
HEXACHLOROBUTADIENE	BDL	660	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	660	ug/kg
HEXACHLOROETHANE	BDL	660	ug/kg
INDENO(1,2,3-CD)PYRENE	EST 15000	660	ug/kg
ISOPHORONE	BDL	660	ug/kg
2-METHYLNAPHTHALENE	EST 25000	660	ug/kg
NAPHTHALENE	EST 120000	660	ug/kg
2-NITROANILINE	BDL	3200	ug/kg
3-NITROANILINE	BDL	3200	ug/kg
4-NITROANILINE	BDL	3200	ug/kg
NITROBENZENE	BDL	660	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	660	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	660	ug/kg
PHENANTHRENE	EST 180000	660	ug/kg
2-PICOLINE	BDL	3200	ug/kg
PYRENE	EST 103000	660	ug/kg
PYRIDINE	BDL	3200	ug/kg
TETRACHLOROBENZENES	BDL	660	ug/kg
TOLUENEDIAMINE	BDL	3200	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	660	ug/kg
BENZOIC ACID	BDL	3200	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	660	ug/kg
2-CHLOROPHENOL	BDL	660	ug/kg
2,4-DICHLOROPHENOL	BDL	660	ug/kg
2,4-DIMETHYLPHENOL	3800	660	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	3200	ug/kg
2,4-DINITROPHENOL	BDL	3200	ug/kg

Parameter	Result	Det. Limit	Units
2-METHYLPHENOL	1500	660	ug/kg
4-METHYLPHENOL	3600	660	ug/kg
2-NITROPHENOL	BDL	660	ug/kg
4-NITROPHENOL	BDL	3200	ug/kg
PENTACHLOROPHENOL	BDL	3200	ug/kg
PHENOL	2100	660	ug/kg
TETRACHLOROPHENOL	BDL	660	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	660	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	660	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	107		% Rec
PHENOL-D5	84		% Rec
NITROBENZENE-D5	97		% Rec
2-FLUOROBIPHENYL	110		% Rec
2,4,6-TRIBROMOPHENOL	66		% Rec
TERPHENYL-D14	131		% Rec

1:2 DILUTION

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 13-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.1

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	29000	16000	ug/kg
ACENAPHTHYLENE	EST 11000	16000	ug/kg
ANTHRACENE	34000	16000	ug/kg
BENZ(A)ANTHRACENE	21000	16000	ug/kg
BENZO(A)PYRENE	BDL	16000	ug/kg
BENZO(B)FLUORANTHENE	BDL	16000	ug/kg
BENZO(G,H,I)PERYLENE	BDL	16000	ug/kg
BENZO(K)FLUORANTHENE	BDL	16000	ug/kg
BENZYL ALCOHOL	BDL	16000	ug/kg
BENZYLBUTYLPHTHALATE	BDL	16000	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	16000	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	16000	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	16000	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	16000	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	16000	ug/kg
CARBAZOLE	BDL	16000	ug/kg
4-CHLOROANILINE	BDL	16000	ug/kg
2-CHLORONAPHTHALENE	BDL	16000	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	16000	ug/kg
CHRYSENE	17000	16000	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	16000	ug/kg
DIBENZOFURAN	EST 13000	16000	ug/kg
1,2-DICHLOROBENZENE	BDL	16000	ug/kg
1,3-DICHLOROBENZENE	BDL	16000	ug/kg
1,4-DICHLOROBENZENE	BDL	16000	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	33000	ug/kg
DIETHYLPHTHALATE	BDL	16000	ug/kg
DIMETHYLPHTHALATE	BDL	16000	ug/kg
DI-N-BUTYLPHTHALATE	BDL	16000	ug/kg
DINITROBENZENES	BDL	16000	ug/kg
2,4-DINITROTOLUENE	BDL	16000	ug/kg
2,6-DINITROTOLUENE	BDL	16000	ug/kg

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A244485**

Parameter	Result	Det. Limit	Units
DI-N-OCTYLPHTHALATE	BDL	16000	ug/kg
FLUORANTHENE	48000	16000	ug/kg
FLUORENE	35000	16000	ug/kg
HEXACHLOROBENZENE	BDL	16000	ug/kg
HEXACHLOROBUTADIENE	BDL	16000	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	16000	ug/kg
HEXACHLOROETHANE	BDL	16000	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	16000	ug/kg
ISOPHORONE	BDL	16000	ug/kg
2-METHYLNAPHTHALENE	24000	16000	ug/kg
NAPHTHALENE	95000	16000	ug/kg
2-NITROANILINE	BDL	80000	ug/kg
3-NITROANILINE	BDL	80000	ug/kg
4-NITROANILINE	BDL	80000	ug/kg
NITROBENZENE	BDL	16000	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	16000	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	16000	ug/kg
PHENANTHRENE	110000	16000	ug/kg
2-PICOLINE	BDL	80000	ug/kg
PYRENE	59000	16000	ug/kg
PYRIDINE	BDL	80000	ug/kg
TETRACHLOROBENZENES	BDL	16000	ug/kg
TOLUENEDIAMINE	BDL	80000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	16000	ug/kg
BENZOIC ACID	BDL	80000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	16000	ug/kg
2-CHLOROPHENOL	BDL	16000	ug/kg
2,4-DICHLOROPHENOL	BDL	16000	ug/kg
2,4-DIMETHYLPHENOL	BDL	16000	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	80000	ug/kg
2,4-DINITROPHENOL	BDL	80000	ug/kg
2-METHYLPHENOL	BDL	16000	ug/kg
4-METHYLPHENOL	BDL	16000	ug/kg
2-NITROPHENOL	BDL	16000	ug/kg
4-NITROPHENOL	BDL	80000	ug/kg
PENTACHLOROPHENOL	BDL	80000	ug/kg
PHENOL	BDL	16000	ug/kg
TETRACHLOROPHENOL	BDL	16000	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	16000	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	16000	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	*		% Rec
PHENOL-D5	*		% Rec
NITROBENZENE-D5	*		% Rec
2-FLUOROBIPHENYL	*		% Rec
2,4,6-TRIBROMOPHENOL	*		% Rec
TERPHENYL-D14	*		% Rec

1:50 DILUTION
*NOTE: * SURROGATES DILUTED OUT*

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 30-DEC-91 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	31.47		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-JAN-92 Instrument: HPLC Test: 0630.0.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	170	1.0	mg/kg
ACENAPHTHYLENE	23	1.6	mg/kg
ACENAPHTHENE	51	1.0	mg/kg
FLUORENE	83	0.12	mg/kg
PHENANTHRENE	160	1.0	mg/kg
ANTHRACENE	54	0.14	mg/kg
FLUORANTHENE	150	0.14	mg/kg
PYRENE	180	0.50	mg/kg
BENZ(A)ANTHRACENE	61	0.86	mg/kg
CHRYSENE	40	0.20	mg/kg
BENZO(B)FLUORANTHENE	29	0.20	mg/kg
BENZO(K)FLUORANTHENE	25	0.08	mg/kg
BENZO(A)PYRENE	37	1.5	mg/kg
DIBENZO(A,H)ANTHRACENE	EST 0.31	0.56	mg/kg
BENZO(G,H,I)PERYLENE	26	0.94	mg/kg
INDENO(1,2,3-CD)PYRENE	17	0.20	mg/kg

1:200 DILUTION
MATRIX INTERFERENCES PRESENT A QUESTION OF APPLICABILITY OF THIS SAMPLE TO HPLC ANALYSIS.
AMENDED 4/30/92, GAB.

Sample Comments

DIFFERENCES BETWEEN SW-846 8310 AND 8270 DATA ARE POSSIBLY DUE TO SAMPLE NON-HOMOGENEITY; DIFFERENT SAMPLE CONTAINERS WERE USED FOR THESE METHODS. THE NATURE OF THE SAMPLE MADE HOMOGENIZATION PROBLEMATIC. COMPARISON OF SAMPLES AFTER ANALYSIS SHOW OBVIOUS VISUAL DIFFERENCES BETWEEN CONTAINERS OF THE SAME SAMPLE.
AMENDED 4/30/92, GAB.

* *See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: G A Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-91	638	A244486
	Complete 21-JAN-92	PO Number PO072488-CHAMPAIGN	
	Printed 08-MAY-92	Sampled 16-DEC-91 11:30	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: UTB-27-SO2
DESCRIPTION: 21'-23' CLEAN
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: J. GRIFFIN Analysis Date: 27-DEC-91 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 31-DEC-91 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	20	0.50	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: L. MATTINGLY Analysis Date: 30-DEC-91 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 03-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550

Analyst: N. HEMMERLEIN Analysis Date: 30-DEC-91 Test: P503.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	26.07		Grams
FINAL VOLUME	100		mL

TOTAL PETROLEUM HYDROCARBONS BY IR SM 503E

Analyst: C. BRODERICK Analysis Date: 31-DEC-91 Instrument: IR Test: G503.7.0
Prep: SONICATION EXTRACTION FOR ORGANICS BY IR SW846-3550 P503.7.0

Parameter	Result	Det. Limit	Units
PETROLEUM HYDROCARBONS	BDL	10	mg/kg

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: N. ROHADFOX Analysis Date: 27-DEC-91 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.99		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 11-JAN-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A244486

Parameter	Result	Det. Limit	Units
4-CHLOROANILINE	BDL	1600	ug/kg
2-CHLORONAPHTHALENE	BDL	1600	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	1600	ug/kg
CHRYSENE	BDL	1600	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	1600	ug/kg
DIBENZOFURAN	BDL	1600	ug/kg
1,2-DICHLOROBENZENE	BDL	1600	ug/kg
1,3-DICHLOROBENZENE	BDL	1600	ug/kg
1,4-DICHLOROBENZENE	BDL	1600	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	3300	ug/kg
DIETHYLPHTHALATE	BDL	1600	ug/kg
DIMETHYLPHTHALATE	BDL	1600	ug/kg
DI-N-BUTYLPHTHALATE	BDL	1600	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROTOLUENE	BDL	1600	ug/kg
2,6-DINITROTOLUENE	BDL	1600	ug/kg
DI-N-OCTYLPHTHALATE	BDL	1600	ug/kg
FLUORANTHENE	BDL	1600	ug/kg
FLUORENE	BDL	1600	ug/kg
HEXACHLOROBENZENE	BDL	1600	ug/kg
HEXACHLOROBUTADIENE	BDL	1600	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	1600	ug/kg
HEXACHLOROETHANE	BDL	1600	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	1600	ug/kg
ISOPHORONE	BDL	1600	ug/kg
2-METHYLNAPHTHALENE	BDL	1600	ug/kg
NAPHTHALENE	BDL	1600	ug/kg
2-NITROANILINE	BDL	8000	ug/kg
3-NITROANILINE	BDL	8000	ug/kg
4-NITROANILINE	BDL	8000	ug/kg
NITROBENZENE	BDL	1600	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	1600	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	1600	ug/kg
PHENANTHRENE	BDL	1600	ug/kg
2-PICOLINE	BDL	8000	ug/kg
PYRENE	BDL	1600	ug/kg
PYRIDINE	BDL	8000	ug/kg
TETRACHLOROBENZENES	BDL	1600	ug/kg
TOLUENEDIAMINE	BDL	8000	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	1600	ug/kg
BENZOIC ACID	BDL	8000	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	1600	ug/kg
2-CHLOROPHENOL	BDL	1600	ug/kg
2,4-DICHLOROPHENOL	BDL	1600	ug/kg
2,4-DIMETHYLPHENOL	EST 1100	1600	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	8000	ug/kg
2,4-DINITROPHENOL	BDL	8000	ug/kg
2-METHYLPHENOL	10000	1600	ug/kg
4-METHYLPHENOL	12000	1600	ug/kg
2-NITROPHENOL	BDL	1600	ug/kg
4-NITROPHENOL	BDL	8000	ug/kg
PENTACHLOROPHENOL	BDL	8000	ug/kg
PHENOL	EST 1200	1600	ug/kg
TETRACHLOROPHENOL	BDL	1600	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	1600	ug/kg

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CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	21-JAN-92	638	A245915
	Complete	PO Number	
	10-FEB-92	PO099698-CHAMPAIGN	
	Printed	Sampled	
	29-APR-92	19-JAN-92 14:20	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: CSS-1
DESCRIPTION: CSS-1 (0" TO 6")
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 23-JAN-92 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 23-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.10	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 23-JAN-92 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	0.59	0.25	mg/kg

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 23-JAN-92 Instrument: GC/FID Test: 0409.1.0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	25	mg/kg
GASOLINE	BDL	5	mg/kg
OTHER HYDROCARBONS	BDL		mg/kg

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 22-JAN-92 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	52000	1000	mg/kg

1:100 dilution

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: K. HACK Analysis Date: 22-JAN-92 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	93.	1.0	mg/kg

CADMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	0.63	0.50	mg/kg

CHROMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	9.3	1.0	mg/kg

COPPER ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	18.	2.0	mg/kg

IRON ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	12000	2.0	mg/kg

LEAD ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 23-JAN-92 Instrument: ICP Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	130	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
MANGANESE	390	1.0	mg/kg

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	13.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
ZINC	110	2.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: K. HACK Analysis Date: 22-JAN-92 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: R. KOBZA, JR. Analysis Date: 24-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	5.5	1.0	mg/kg

1:2 dilution

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: P. SIMS Analysis Date: 29-JAN-92 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: P. SIMS Analysis Date: 29-JAN-92 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	0.14	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: O510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg

Parameter	Result	Det. Limit	Units
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	114		% Rec
BROMOFLUOROBENZENE	97		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. HUGHS Analysis Date: 31-JAN-92 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.06		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 05-FEB-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	450	330	ug/kg
BENZO(A)PYRENE	390	330	ug/kg
BENZO(B)FLUORANTHENE	770	330	ug/kg
BENZO(G,H,I)PERYLENE	EST 300	330	ug/kg
BENZO(K)FLUORANTHENE	EST 250	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	2000	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	480	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	820	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	410	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	390	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	570	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg

.

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
2-FLUOROPHENOL	46		% Rec
PHENOL-D5	92		% Rec
NITROBENZENE-D5	100		% Rec
2-FLUOROBIPHENYL	98		% Rec
2,4,6-TRIBROMOPHENOL	111		% Rec
TERPHENYL-D14	89		% Rec

SONICATION EXTRACTION FOR ORGANICS SW846-3550
Analyst: G. WILSON Analysis Date: 22-JAN-92 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.08		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310
Analyst: T. COFFELT Analysis Date: 02-FEB-92 Instrument: HPLC Test: 0630.0.0
Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.1.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	BDL	0.005	mg/kg
ACENAPHTHYLENE	BDL	0.008	mg/kg
ACENAPHTHENE	BDL	0.005	mg/kg
FLUORENE	0.044	0.0006	mg/kg
PHENANTHRENE	0.34	0.005	mg/kg
ANTHRACENE	0.059	0.0007	mg/kg
FLUORANTHENE	EST 1.1	0.0007	mg/kg
PYRENE	EST 1.2	0.0025	mg/kg
BENZ(A)ANTHRACENE	EST 0.53	0.0043	mg/kg
CHRYSENE	EST 0.55	0.001	mg/kg
BENZO(B)FLUORANTHENE	0.56	0.001	mg/kg
BENZO(K)FLUORANTHENE	0.39	0.0004	mg/kg
BENZO(A)PYRENE	0.65	0.0077	mg/kg
DIBENZO(A,H)ANTHRACENE	0.069	0.0028	mg/kg
BENZO(G,H,I)PERYLENE	0.40	0.0047	mg/kg
INDENO(1,2,3-CD)PYRENE	0.47	0.001	mg/kg

AMENDED REPORT 4/29/92, GAB.

PCB SONICATION EXTRACTION SW846-3550
Analyst: L. DOBBINS Analysis Date: 22-JAN-92 Test: P231.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10.69		Grams
FINAL VOLUME	100		mL

POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080
Analyst: E. WERNZ Analysis Date: 24-JAN-92 Instrument: GC/ECD Test: 0301.2.0
Prep: PCB SONICATION EXTRACTION SW846-3550 P231.1.0

Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	1.0	mg/kg
PCB AROCHLOR 1221	BDL	5.0	mg/kg
PCB AROCHLOR 1232	BDL	1.0	mg/kg
PCB AROCHLOR 1242	BDL	1.0	mg/kg
PCB AROCHLOR 1248	BDL	1.0	mg/kg
PCB AROCHLOR 1254	BDL	1.0	mg/kg
PCB AROCHLOR 1260	BDL	1.0	mg/kg
PCB AROCHLOR 1262	BDL	1.0	mg/kg

Sample Comments

AMENDED REPORT 4/29/92, GAB.

BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 4078.

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: G.A. Busch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	21-JAN-92	638	A245916
	Complete	PO Number	
	11-FEB-92	PO099698-CHAMPAIGN	
	Printed	Sampled	
	29-APR-92	19-JAN-92 14:45	

Report To	Bill To
KATHLEEN A. BLAINE JOHN MATHES AND ASSOCIATES 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ACCOUNTS PAYABLE ILLINOIS POWER COMPANY P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID:: CSS-2
DESCRIPTION: CSS-2 (0" TO 6")
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 23-JAN-92 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 23-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.10	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 23-JAN-92 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.25	mg/kg

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 23-JAN-92 Instrument: GC/FID Test: 0409.1.0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	* 38	25	mg/kg
GASOLINE	BDL	5	mg/kg
OTHER HYDROCARBONS	BDL		mg/kg

*NOTE: * NOT AN EXACT MATCH. FRACTION IN A SIMILAR BOILING POINT RANGE. QUANTITATION IS ESTIMATED BECAUSE OF POSSIBLE DEGRADATION.*

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 22-JAN-92 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	47000	1000	mg/kg

1:100 dilution

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: K. HACK Analysis Date: 22-JAN-92 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	89.	1.0	mg/kg

CADMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	9.0	1.0	mg/kg

COPPER ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	20.	2.0	mg/kg

IRON ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	12000	2.0	mg/kg

LEAD ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 23-JAN-92 Instrument: ICP Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	59.	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
MANGANESE	380	1.0	mg/kg

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	12.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
ZINC	74.	2.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: K. HACK Analysis Date: 22-JAN-92 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: R. KOBZA, JR. Analysis Date: 24-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	5.0	1.0	mg/kg

1:2 dilution

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: P. SIMS Analysis Date: 29-JAN-92 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: P. SIMS Analysis Date: 29-JAN-92 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg

Parameter	Result	Det. Limit	Units
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	110		% Rec
BROMOFLUOROBENZENE	94		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. HUGHS Analysis Date: 31-JAN-92 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	29.90		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 05-FEB-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	EST 320	330	ug/kg
ANTHRACENE	870	330	ug/kg
BENZ(A)ANTHRACENE	3700	330	ug/kg
BENZO(A)PYRENE	2900	330	ug/kg
BENZO(B)FLUORANTHENE	EST 5800	330	ug/kg
BENZO(G,H,I)PERYLENE	1900	330	ug/kg
BENZO(K)FLUORANTHENE	1200	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	610	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	2900	330	ug/kg
DIBENZ(A,H)ANTHRACENE	580	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	4700	330	ug/kg
FLUORENE	EST 210	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	2000	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	3000	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	4700	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
2-FLUOROPHENOL	42		% Rec
PHENOL-D5	100		% Rec
NITROBENZENE-D5	98		% Rec
2-FLUOROBIPHENYL	98		% Rec
2,4,6-TRIBROMOPHENOL	90		% Rec
TERPHENYL-D14	101		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: M. FRANK Analysis Date: 07-FEB-92 Instrument: GC/MS SVOA Test: 0505.3.1

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	660	ug/kg
ACENAPHTHYLENE	EST 440	660	ug/kg
ANTHRACENE	810	660	ug/kg
BENZ(A)ANTHRACENE	3600	660	ug/kg
BENZO(A)PYRENE	3000	660	ug/kg
BENZO(B)FLUORANTHENE	3500	660	ug/kg
BENZO(G,H,I)PERYLENE	3400	660	ug/kg
BENZO(K)FLUORANTHENE	1300	660	ug/kg
BENZYL ALCOHOL	BDL	660	ug/kg
BENZYLBUTYLPHTHALATE	BDL	660	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	660	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	660	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	660	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	720	660	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	660	ug/kg
CARBAZOLE	BDL	660	ug/kg
4-CHLOROANILINE	BDL	660	ug/kg
2-CHLORONAPHTHALENE	BDL	660	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	660	ug/kg
CHRYSENE	4000	660	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	660	ug/kg
DIBENZOFURAN	BDL	660	ug/kg
1,2-DICHLOROBENZENE	BDL	660	ug/kg
1,3-DICHLOROBENZENE	BDL	660	ug/kg
1,4-DICHLOROBENZENE	BDL	660	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	1300	ug/kg
DIETHYLPHTHALATE	BDL	660	ug/kg
DIMETHYLPHTHALATE	BDL	660	ug/kg
DI-N-BUTYLPHTHALATE	BDL	660	ug/kg
DINITROBENZENES	BDL	660	ug/kg
2,4-DINITROTOLUENE	BDL	660	ug/kg
2,6-DINITROTOLUENE	BDL	660	ug/kg
DI-N-OCTYLPHTHALATE	BDL	660	ug/kg
FLUORANTHENE	6000	660	ug/kg
FLUORENE	BDL	660	ug/kg
HEXACHLOROBENZENE	BDL	660	ug/kg
HEXACHLOROBUTADIENE	BDL	660	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	660	ug/kg
HEXACHLOROETHANE	BDL	660	ug/kg
INDENO(1,2,3-CD)PYRENE	4200	660	ug/kg
ISOPHORONE	BDL	660	ug/kg
2-METHYLNAPHTHALENE	BDL	660	ug/kg
NAPHTHALENE	BDL	660	ug/kg
2-NITROANILINE	BDL	3200	ug/kg

Parameter	Result	Det. Limit	Units
3-NITROANILINE	BDL	3200	ug/kg
4-NITROANILINE	BDL	3200	ug/kg
NITROBENZENE	BDL	660	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	660	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	660	ug/kg
PHENANTHRENE	3100	660	ug/kg
2-PICOLINE	BDL	3200	ug/kg
PYRENE	6000	660	ug/kg
PYRIDINE	BDL	3200	ug/kg
TETRACHLOROBENZENES	BDL	660	ug/kg
TOLUENEDIAMINE	BDL	3200	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	660	ug/kg
BENZOIC ACID	BDL	3200	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	660	ug/kg
2-CHLOROPHENOL	BDL	660	ug/kg
2,4-DICHLOROPHENOL	BDL	660	ug/kg
2,4-DIMETHYLPHENOL	BDL	660	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	3200	ug/kg
2,4-DINITROPHENOL	BDL	3200	ug/kg
2-METHYLPHENOL	BDL	660	ug/kg
4-METHYLPHENOL	BDL	660	ug/kg
2-NITROPHENOL	BDL	660	ug/kg
4-NITROPHENOL	BDL	3200	ug/kg
PENTACHLOROPHENOL	BDL	3200	ug/kg
PHENOL	BDL	660	ug/kg
TETRACHLOROPHENOL	BDL	660	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	660	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	660	ug/kg
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	54		% Rec
PHENOL-D5	91		% Rec
NITROBENZENE-D5	120		% Rec
2-FLUOROBIPHENYL	93		% Rec
2,4,6-TRIBROMOPHENOL	89		% Rec
TERPHENYL-D14	57		% Rec

1:2 DILUTION

SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. WILSON Analysis Date: 22-JAN-92 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.13		Grams
FINAL VOLUME	5		mL

POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC SW846-8310

Analyst: T. COFFELT Analysis Date: 02-FEB-92 Instrument: HPLC Test: 0630.0.0

Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.1.0

Parameter	Result	Det. Limit	Units
NAPHTHALENE	0.11	.05	mg/kg
ACENAPHTHYLENE	EST 0.062	.08	mg/kg
ACENAPHTHENE	0.063	.05	mg/kg
FLUORENE	0.36	.006	mg/kg
PHENANTHRENE	1.6	.05	mg/kg
ANTHRACENE	0.31	.007	mg/kg
FLUORANTHENE	4.8	.007	mg/kg

Parameter	Result	Det. Limit	Units
PYRENE	3.5	.025	mg/kg
BENZ(A)ANTHRACENE	2.0	.043	mg/kg
CHRYSENE	2.2	.01	mg/kg
BENZO(B)FLUORANTHENE	2.3	.01	mg/kg
BENZO(K)FLUORANTHENE	1.7	.004	mg/kg
BENZO(A)PYRENE	2.4	.077	mg/kg
DIBENZO(A,H)ANTHRACENE	0.30	.028	mg/kg
BENZO(G,H,I)PERYLENE	1.5	.047	mg/kg
INDENO(1,2,3-CD)PYRENE	2.0	.01	mg/kg

1:10 DILUTION
THE SAMPLE WAS SCREENED USING AN INJECTION SIZE WHICH IS BELOW THE PROVEN INSTRUMENT RELIABILITY OF REPRODUCTION.
AMENDED REPORT 4/29/92, GAB.

PCB SONICATION EXTRACTION SW846-3550
Analyst: L. DOBBINS Analysis Date: 22-JAN-92 Test: P231.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10.51		Grams
FINAL VOLUME	100		mL

POLYCHLORINATED BIPHENYLS (PCBS) SW846-8080
Analyst: E. WERNZ Analysis Date: 24-JAN-92 Instrument: GC/ECD Test: 0301.2.0
Prep: PCB SONICATION EXTRACTION SW846-3550 P231.1.0

Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	1.0	mg/kg
PCB AROCHLOR 1221	BDL	5.0	mg/kg
PCB AROCHLOR 1232	BDL	1.0	mg/kg
PCB AROCHLOR 1242	BDL	1.0	mg/kg
PCB AROCHLOR 1248	BDL	1.0	mg/kg
PCB AROCHLOR 1254	BDL	1.0	mg/kg
PCB AROCHLOR 1260	BDL	1.0	mg/kg
PCB AROCHLOR 1262	BDL	1.0	mg/kg

Sample Comments

AMENDED REPORT 4/29/92, GAB.

** See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 4078.

IDEM Drinking Water Certification Number C-49-01

Additional copies of this report sent to:
NATALIE E. LOCKE, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: GABusch

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	21-JAN-92	638	A245917
	Complete: 11-FEB-92	PO Number: PO099698-CHAMPAIGN	
	Printed: 30-APR-92	Sampled: 19-JAN-92 15:35	

Report To

KATHLEEN A. BLAINE
JOHN MATHES AND ASSOCIATES
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ACCOUNTS PAYABLE
ILLINOIS POWER COMPANY
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID:: CSS-3
DESCRIPTION: CSS-3 (0" TO 6")
LOCATION: CHAMPAIGN

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 23-JAN-92 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 23-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7.0
Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.1	mg/kg

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 23-JAN-92 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10		Grams
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	7.4	1.25	mg/kg

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 23-JAN-92 Instrument: GC/FID Test: 0409.1.0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	* 31	25	mg/kg
GASOLINE	BDL	5	mg/kg
OTHER HYDROCARBONS	BDL		mg/kg

*NOTE: * NOT AN EXACT MATCH. FRACTION IN A SIMILAR BOILING POINT RANGE. QUANTITATION IS ESTIMATED BECAUSE OF POSSIBLE DEGRADATION.*

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 22-JAN-92 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	47000	1000	mg/kg

1:100 dilution

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: K. HACK Analysis Date: 22-JAN-92 Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	82.	1.0	mg/kg

CADMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	0.51	0.50	mg/kg

CHROMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	5.9	1.0	mg/kg

COPPER ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
COPPER	17.	2.0	mg/kg

IRON ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
IRON	14000	2.0	mg/kg

LEAD ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 23-JAN-92 Instrument: ICP Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	80.	5.0	mg/kg

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
MANGANESE	830	1.0	mg/kg

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
NICKEL	12.	1.0	mg/kg

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 22-JAN-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P129.7.0

Parameter	Result	Det. Limit	Units
ZINC	74.	2.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050

Analyst: K. HACK Analysis Date: 22-JAN-92 Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: R. KOBZA, JR. Analysis Date: 24-JAN-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050 P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	3.2	1.0	mg/kg

1:2 dilution

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD

Analyst: P. SIMS Analysis Date: 29-JAN-92 Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471 MOD

Analyst: P. SIMS Analysis Date: 29-JAN-92 Instrument: CVAA Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471 MOD P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	0.20	0.13	mg/kg

VOLATILE ORGANICS SW846-8240

Analyst: C. BOYLE Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: O510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	1.2	mg/kg
ACROLEIN	BDL	3.1	mg/kg
ACRYLONITRILE	BDL	4.4	mg/kg
BENZENE	BDL	0.31	mg/kg
BROMODICHLOROMETHANE	BDL	0.31	mg/kg
BROMOFORM	BDL	0.31	mg/kg
BROMOMETHANE	BDL	0.63	mg/kg
CARBON DISULFIDE	BDL	0.31	mg/kg
CARBON TETRACHLORIDE	BDL	0.31	mg/kg
CHLOROBENZENE	BDL	0.31	mg/kg
CHLOROETHANE	BDL	0.63	mg/kg
CHLOROFORM	BDL	0.31	mg/kg
CHLOROMETHANE	BDL	0.63	mg/kg
DIBROMOCHLOROMETHANE	BDL	0.31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHANE	BDL	0.31	mg/kg

Parameter	Result	Det. Limit	Units
1,2-DICHLOROETHANE	BDL	0.31	mg/kg
1,1-DICHLOROETHENE	BDL	0.31	mg/kg
1,2-DICHLOROPROPANE	BDL	0.31	mg/kg
ETHYLBENZENE	BDL	0.31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	0.31	mg/kg
2-HEXANONE	BDL	0.63	mg/kg
METHYLENE CHLORIDE	BDL	0.31	mg/kg
METHYL ETHYL KETONE	BDL	0.63	mg/kg
4-METHYL-2-PENTANONE	BDL	0.63	mg/kg
STYRENE	BDL	0.31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	0.31	mg/kg
TETRACHLOROETHENE	BDL	0.31	mg/kg
TETRAHYDROFURAN	BDL	1.5	mg/kg
TOLUENE	BDL	0.31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	0.31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	0.31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	0.31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	0.31	mg/kg
TRICHLOROETHENE	BDL	0.31	mg/kg
VINYL ACETATE	BDL	0.63	mg/kg
VINYL CHLORIDE	BDL	0.63	mg/kg
XYLENE (TOTAL)	BDL	0.31	mg/kg
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	110		% Rec
TOLUENE-D8	111		% Rec
BROMOFLUOROBENZENE	98		% Rec

1:63 DILUTION

GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: G. HUGHS Analysis Date: 31-JAN-92 Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.06		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: J. ELLIS Analysis Date: 05-FEB-92 Instrument: GC/MS SVOA Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	1900	330	ug/kg
ANTHRACENE	1000	330	ug/kg
BENZ(A)ANTHRACENE	3600	330	ug/kg
BENZO(A)PYRENE	2800	330	ug/kg
BENZO(B)FLUORANTHENE	EST 6100	330	ug/kg
BENZO(G,H,I)PERYLENE	3200	330	ug/kg
BENZO(K)FLUORANTHENE	1600	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	610	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	3200	330	ug/kg
DIBENZ(A,H)ANTHRACENE	530	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHTHALATE	BDL	330	ug/kg
DIMETHYLPHTHALATE	BDL	330	ug/kg
DI-N-BUTYLPHTHALATE	BDL	330	ug/kg
DINITROBENZENES	BDL	330	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHTHALATE	BDL	330	ug/kg
FLUORANTHENE	3300	330	ug/kg
FLUORENE	EST 300	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	2900	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	EST 330	330	ug/kg
NAPHTHALENE	EST 330	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	2200	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	5300	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	330	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg

.

APPENDIX D

Phase II SI Geologic Logs

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-01

Project Name: IP - Champaign Former MGP		Elevation: 736.34'	Datum:
Project Number: 17246		Coordinate X: 1012797.45	Coordinate Y: 1257590.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 0.00in
Date Started: 12/04/90	Date Completed: 12/04/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	20				0' Topsoil, dark brown, Silty Clay, with brick fragments (Fill)	2.0		
735						FI				
		CTS-2 3-8	100				3'5" Tan Silty CLAY and sand	1.0		
	5					CL				
730							7' Tan-Green SAND, fine with clay, coal tar layer at 7 to 7.5 feet			
		CTS-3 8-13	80			SC	8' - Tar-like material noted with some odors. Water	2.0		
							9' Tan Silty CLAY with brown to black sand stringers			
	10					CL	10' - Moderate tar-like odor			
725							12' - Strong tar-like odor			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-01

Project Name: IP - Champaign Former MGP		Elevation: 736.34'	Datum:
Project Number: 17246		Coordinate X: 1012797.45	Coordinate Y: 1257590.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 0.00in
Date Started: 12/04/90	Date Completed: 12/04/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-4 13-18	100					3.0		
	15					CL				
720							16' Gray Silty CLAY with gravel (gravel is rounded quartz and shale fragments)			
		CTS-5 18-23	100					74		
	20					CL				
715										LAB
		CTS-6 23-28	60				23' - Strong tar-like odor	3.2		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-01

Project Name: IP - Champaign Former MGP		Elevation: 736.34'	Datum:
Project Number: 17246		Coordinate X: 1012797.45	Coordinate Y: 1257590.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 0.00in
Date Started: 12/04/90	Date Completed: 12/04/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
	25						25' - no odors			
710										LAB
							28' Termination of boring.			
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-02

Project Name: IP - Champaign Former MGP		Elevation: 737.70'	Datum:
Project Number: 122765		Coordinate X: 1012996.65	Coordinate Y: 1257521.51
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 26.50'	Borehole Dia.: 0.00in
Date Started: 11/28/90	Date Completed: 11/28/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
							0' Black cinders, rubble fine gravel (Fill)			
		CTS-1 1-3.5	33			FI		0		
735										
		CTS-2 3.5-8.5	80				3.5' Brown-Black CLAY, trace sand and fine gravel, medium stiff, moist	0		
	5									
730						CL	8' Light Brown Sandy, CLAY, trace gravel, wet. Water			
		CTS-3 8.5-13.5	100					0		
	10									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-02

Project Name: IP - Champaign Former MGP		Elevation: 737.70'	Datum:
Project Number: 122765		Coordinate X: 1012996.65	Coordinate Y: 1257521.51
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 26.50'	Borehole Dia.: 0.00in
Date Started: 11/28/90	Date Completed: 11/28/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725							13' Less sand			
		CTS-4 13.5-15.5	100			CL	14' Gray Sandy CLAY, trace gravel	0		LAB
	15						15' Silty SAND			
		CTS-5 15.5-18.5	0			SM		0		
720							18' Gray CLAY, trace fine sand, soft, moist			
		CTS-6 18.5-20.5	50					0		
	20					CL				
715										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-02

Project Name: IP - Champaign Former MGP		Elevation: 737.70'	Datum:
Project Number: 122765		Coordinate X: 1012996.65	Coordinate Y: 1257521.51
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 26.50'	Borehole Dia.: 0.00in
Date Started: 11/28/90	Date Completed: 11/28/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
	25	CTS-7 24.5-26.5	50			CL	24.5' Trace fine gravel, stiff, slightly damp	0		
710							26.5' Termination of boring.			
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-03

Project Name: IP - Champaign Former MGP		Elevation: 736.50'	Datum:
Project Number: 17246		Coordinate X: 1013032.65	Coordinate Y: 1257346.53
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.50'	Borehole Dia.: 0.00in
Date Started: 11/29/90	Date Completed: 11/30/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3.5	73				0' Black-Brown fill with gravels, organics, slightly damp debris (Fill)	0		
735						FI				
		CTS-2 3.5-8.5	90				3.5' Grayish-Brown CLAY with staining, moist	0		
	5									
730						CL				
		CTS-3 8.5-13.5	90				9' - Brown, soft	0		
	10									
							11' Brown Silty SAND with fine gravel, tar-like odor, wet. Water			LAB
725						SM				

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-03

Project Name: IP - Champaign Former MGP		Elevation: 736.50'	Datum:
Project Number: 17246		Coordinate X: 1013032.65	Coordinate Y: 1257346.53
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.50'	Borehole Dia.: 0.00in
Date Started: 11/29/90	Date Completed: 11/30/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
						SM	13' Brown Silty CLAY, stiff, moist			
		CTS-4 13.5-18.5	80					0		
	15									
						CL	16' Gray SIlty CLAY, trace sand, trace fine gravel, soft, moist to wet			
720										
							18' - Slight tar-like odor			
		CTS-5 18.5-23.5	100					0		LAB
	20									
						CL				
715										
							23' - Stiff			
		CTS-6 23.5-28.5	80			ML	23.5' Gray Sandy SILT with fine gravel, stiff; sand layers, moist	0		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-03

Project Name: IP - Champaign Former MGP		Elevation: 736.50'	Datum:
Project Number: 17246		Coordinate X: 1013032.65	Coordinate Y: 1257346.53
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.50'	Borehole Dia.: 0.00in
Date Started: 11/29/90	Date Completed: 11/30/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
710	25					ML				
							28.5' Termination of boring.			
705	30									
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-04

Project Name: IP - Champaign Former MGP		Elevation: 736.30'	Datum:
Project Number: 122765		Coordinate X: 1013012.86	Coordinate Y: 1257242.33
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 23.50'	Borehole Dia.: 0.00in
Date Started: 11/27/90	Date Completed: 11/27/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
735	0	CTS-1 0-3.5	49				0' Brown CLAY, trace coarse sand, trace fine gravel, soft, slightly damp			
		CTS-2 3.5-8.5	100			CL		0		
730	5									
		CTS-3 8.5-13.5	60			CL	8.5' Grayish-Brown CLAY, trace gravel	0		
725	10						12' - Oxidation stains. Water at 12.5'			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-04

Project Name: IP - Champaign Former MGP		Elevation: 736.30'	Datum:
Project Number: 122765		Coordinate X: 1013012.86	Coordinate Y: 1257242.33
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 23.50'	Borehole Dia.: 0.00in
Date Started: 11/27/90	Date Completed: 11/27/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-4 13.5-15.5	100					0		LAB
	15						15' Gray Sandy CLAY, trace fine gravel, medium stiff, wet			
		CTS-5 15.5-18.5	100					0		
720						CL				
		CTS-6 8.5-23.5	100					0		
	20					CL				
715							21' Gray CLAY, trace fine gravel, stiff, slightly damp			
							23.5' Termination of boring.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-05

Project Name: IP - Champaign Former MGP		Elevation: 737.70'	Datum:
Project Number: 122765		Coordinate X: 1012731.63	Coordinate Y: 1257160.20
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 20.00'	Borehole Dia.: 0.00in
Date Started: 12/05/90	Date Completed: 12/05/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
735	0					CL	0' Dark Brown-Black Silty CLAY, slightly damp			
	5						5' - Dark tan			
							6.5' - Light tan			
730						CL				
	10						10' Tan Silty SAND with clay (gray), wet			
						SM	11' - Water			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-05

Project Name:	IP - Champaign Former MGP	Elevation: 737.70'	Datum:
Project Number:	122765	Coordinate X: 1012731.63	Coordinate Y: 1257160.20
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 20.00'	Borehole Dia.: 0.00in
Date Started: 12/05/90	Date Completed: 12/05/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725						SM				
							14' Gray Silty CLAY, wet			
	15									
						CL				
720										
	20						20' Termination of boring.			
715										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-06

Project Name: IP - Champaign Former MGP		Elevation: 737.50'	Datum:
Project Number: 122765		Coordinate X: 1012529.74	Coordinate Y: 1257251.66
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 0.00in
Date Started: 11/29/90	Date Completed: 11/29/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
							0' Asphalt gravel			
		CTS-1 1-4	50				1' Black-Brown fill, trace gravel, stiff, slightly damp			
735						CL				
		CTS-2 4-9	60				4' Brown Silty CLAY, trace fine gravel, medium stiff, moist			
	5						5' - Dark tan			
							7' - With fine sand. Water			
730						CL				
		CTS-3 9-14	40				9' - Stiff, dry			
	10									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-06

Project Name: IP - Champaign Former MGP		Elevation: 737.50'	Datum:
Project Number: 122765		Coordinate X: 1012529.74	Coordinate Y: 1257251.66
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 0.00in
Date Started: 11/29/90	Date Completed: 11/29/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725										
		CTS-4 14-19	60				14' Gray Silty CLAY with fine gravel			
	15									
720							18' Brown SILT with fine gravel. 3" silt layer			
						ML				
		CTS-5 19-21	100				19' Gray Sandy CLAY, stiff, slightly damp			LAB
	20									
		CTS-6 21-24	66							
						CL				
715							22' - Silty CLAY with fine gravel			
							24' Termination of boring.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-07

Project Name: IP - Champaign Former MGP		Elevation: 737.30'	Datum:
Project Number: 122765		Coordinate X: 1012486.44	Coordinate Y: 1257393.96
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 20.00'	Borehole Dia.: 0.00in
Date Started: 12/05/90	Date Completed: 12/05/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-2.5	100				0' Topsoil, brown, silty	0.5		
735		CTS-2 2.5-8	100				2.5' Gray Silty CLAY,mottled, light tan, medium stiff, moist	0		
	5					CL				
730		CTS-3 8-13	90				8' - Water	0.5		
						CL				
	10						11' - Gray Sandy CLAY, trace coarse rounded gravels of quartz and shale			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-07

Project Name: IP - Champaign Former MGP		Elevation: 737.30'	Datum:
Project Number: 122765		Coordinate X: 1012486.44	Coordinate Y: 1257393.96
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 20.00'	Borehole Dia.: 0.00in
Date Started: 12/05/90	Date Completed: 12/05/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725		CTS-4 13-18	100			CL		1.0		LAB
	15									
720		CTS-5 18-20	0					0.75		
	20						20' Termination of boring.			
715										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-08A

Project Name: IP - Champaign Former MGP		Elevation: 737.10'	Datum:
Project Number: 17246		Coordinate X: 1012484.00	Coordinate Y: 1257545.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 14.00'	Borehole Dia.: 0.00in
Date Started: 01/28/90	Date Completed: 01/28/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
735	0	CTS-1 1-4	57			FI	0' Black cinders, fine gravel, debris, (FILL)			
	5	CTS-2 4-9	100				4' Dark Brown-Black Clay with organics, stiff, slightly damp			
730							7.5' - Brown-Gray Sandy CLAY with diesel odor, trace gravel, soft, moist.			
	10	CTS-3 9-14	100			CL	11.5' - Moisture 12' - Trace sand 13' - Trace gravel 13.5' - Stiff 14' Termination of boring.			
725										
	15									
720										
	20									
715										
	25									
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-08B

Project Name:	IP - Champaign Former MGP	Elevation: 737.10'	Datum:
Project Number:	17246	Coordinate X: 1012505.00	Coordinate Y: 1257564.32
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 24.00'	Borehole Dia.: 0.00in
Date Started: 11/28/90	Date Completed: 11/29/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
							0' Black cinders, fine gravel, debris, (FILL)			
		CTS-1 1-4	13							
735						FI				
		CTS-2 4-9	100				4' Dark Brown-Black Clay, stiff, slightly damp			LAB
	5									
						CL				
730										
							8' - Brownish gray with staining and Diesel odor			
		CTS-3 9-14	100				9' - Brown Sandy CLAY, trace gravel, soft, moist. Water			LAB
						CL				
	10									
							11' - Brownish-Gray CLAY, trace fine sand, stiff, slightly damp			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-08B

Project Name:	IP - Champaign Former MGP	Elevation: 737.10'	Datum:
Project Number:	17246	Coordinate X: 1012505.00	Coordinate Y: 1257564.32
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 24.00'	Borehole Dia.: 0.00in
Date Started: 11/28/90	Date Completed: 11/29/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725										
		CTS-4 14-19	80				14' - Silty, trace gravel, no odors			
	15					CL				
720										
		CTS-5 19-24	90							
	20					CL				
715							24' Termination of boring.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-09

Project Name: IP - Champaign Former MGP		Elevation: 735.50'	Datum:
Project Number: 122765		Coordinate X: 1012614.88	Coordinate Y: 1257699.93
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 20.00'	Borehole Dia.: 0.00in
Date Started: 12/17/91	Date Completed: 12/17/91	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
735		CTS-1 0-3	100			FI	0' Dark Brown FILL	0		
		CTS-2 3-8	100				3' Dark Brown CLAY, trace sand, medium stiff, slightly damp	0		
730	5					CL				
		CTS-3 8-13	100				8' Brown Silty CLAY, medium stiff, slightly damp	0		
725	10					CL				

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-09

Project Name: IP - Champaign Former MGP		Elevation: 735.50'	Datum:
Project Number: 122765		Coordinate X: 1012614.88	Coordinate Y: 1257699.93
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 20.00'	Borehole Dia.: 0.00in
Date Started: 12/17/91	Date Completed: 12/17/91	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-4 13-18	100			CL		0		
	15						14.5' Gray Silty CLAY, stiff, slightly damp			
720										
		CTS-5 18-20	100			CL		0		
	20						20' Termination of boring.			
715										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-10

Project Name:	IP - Champaign Former MGP	Elevation: 737.20'	Datum:
Project Number:	17246	Coordinate X: 1012998.18	Coordinate Y: 1257998.33
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 22.00'	Borehole Dia.: 0.00in
Date Started: 11/30/90	Date Completed: 11/30/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-4	50				0' Black cinders, gravels, organic materials, stiff, wet (FILL)			
735						FI				
		CTS-2 4-9	90				4' Brown-Black CLAY with gravel, tar-like staining with odors, stiff, moist			
	5									
730						CL	8' - Silty, soft.			
							8.5' - Tar-Like material and water noted.			
		CTS-3 9-14	100							LAB
	10						10' - Stiff, moist			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-10

Project Name: IP - Champaign Former MGP		Elevation: 737.20'	Datum:
Project Number: 17246		Coordinate X: 1012998.18	Coordinate Y: 1257998.33
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 22.00'	Borehole Dia.: 0.00in
Date Started: 11/30/90	Date Completed: 11/30/90	Township/Range: Sec 7; T19N; R9E	
Consultant: Mathis	Drilled By: Mathis		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725						CL				
		CTS-4 14-19	50							LAB
	15						15' - No odor noted			
720										
		CTS-5 19-22	100				19' Gray Silty CLAY with fine gravel, stiff, slightly damp			
	20					CL				
715							22' Termination of boring.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-11

Project Name: IP - Champaign Former MGP		Elevation: 737.50'	Datum:
Project Number: 17246		Coordinate X: 1012620.00	Coordinate Y: 1257555.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 175.00'	Borehole Dia.: 0.00in
Date Started: 12/03/90	Date Completed: 12/05/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
735	0	CTS-1 0-3	66			FI	0' Dark Brown fill, silty gravel, brick (FILL) 2' Dark-Brown-Black, SILT	0		
		CTS-2 3-8	80				3' Greenish Gray CLAY, stiff with tar-like staining, slightly damp			
	5						5' - Slight tar-like odor			
730		CTS-3 8-13	100					5.0		LAB
	10									
725		CTS-4 13-18	87				13' - Slight tar-like odor			
	15					CL				
720		CTS-5 18-22	75				16' - Brown-Gray, silty, brown oxidizing stains and black streaks. No odor noted 20' - Gray Silty CLAY with gravels, coarse quartz, gravels are rounded			
715	20									LAB
	25	CTS-6 25-35	0							
710										
	30						30' Light Gray SAND, trace silt, fine to medium-grained, angular to subangular to coarse			
705										
	35	CTS-7 35-45	0			SP				
700										
	40					GW	39' Light Gray Fine GRAVEL, rounded to subrounded 41' Gray Clayey SILT, trace fine sand			
695										
	45	CTS-8 45-55	0							
690										
	50					ML	50' - Light Gray SILT, trace fine sand			
685										
	55	CTS-9 55-65	0							
680										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-11

Project Name: IP - Champaign Former MGP		Elevation: 737.50'	Datum:
Project Number: 17246		Coordinate X: 1012620.00	Coordinate Y: 1257555.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 175.00'	Borehole Dia.: 0.00in
Date Started: 12/03/90	Date Completed: 12/05/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
675							62' - With medium sand			
	65	CTS-10 65-75	0							
670						ML				
	70									
665							75' - With coarse angular sand to medium sand			
	75	CTS-11 75-85	0							
660										
	80									
655										
	85	CTS-12 85-95	0							
650										
	90						90' - Medium-grained sand			
645										
	95	CTS-13 95-105	0				95' - Trace clay			
640						ML				
	100									
635										
	105	CTS-14 105-115	0				105' - Medium to fine sand			
630										
	110						110' - Fine sand			
625							113.5'- Trace coarse sand			
	115	CTS-15 115-125	0							
620										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-11

Project Name: IP - Champaign Former MGP		Elevation: 737.50'	Datum:
Project Number: 17246		Coordinate X: 1012620.00	Coordinate Y: 1257555.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 175.00'	Borehole Dia.: 0.00in
Date Started: 12/03/90	Date Completed: 12/05/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
615										
	125	CTS-16 125-135	0			ML				
610										
	130									
605										
	135	CTS-17 135-145	0				135' - Medium sand			
600							139' - Fine sand			
	140									
595										
	145						145' - Light Gray Sandy SILT, medium-grained sand			
590										
	150									
		CTS-18 151-155	0			SC	151' Brown Clayey SAND, very fine sand 152' Light Gray Sandy SILT with fine sand			LAB
585										
	155	CTS-19 155-165	0							
580						ML				
	160									
575										
	165	CTS-20 165-175	0				166' Light Gray Gravelly SAND, medium to coarse-grained			
570						SP				
	170						172' Light Gray Silty SAND, trace gravel			
565						SC				
	175						175' Termination of boring.			
560										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-12

Project Name: IP - Champaign Former MGP		Elevation: 738.70'	Datum:
Project Number: 122765		Coordinate X: 1012996.19	Coordinate Y: 1257431.40
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 176.50'	Borehole Dia.: 0.00in
Date Started: 11/30/90	Date Completed: 12/02/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
735	5						0' Grayish Brown Silty CLAY with sand and gravel, medium stiff, moist to wet			
730	10									
725	15									
720	20					CL				
715	25									
710	30									
705	35						34' Light Gray Fine SAND, with coarse subangular to angular gravel			
700	40					SP	40' Light Gray Silty CAY, very stiff, moist			
695	45									
690	50					CL				
685	55									
680										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-12

Project Name: IP - Champaign Former MGP		Elevation: 738.70'	Datum:
Project Number: 122765		Coordinate X: 1012996.19	Coordinate Y: 1257431.40
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 176.50'	Borehole Dia.: 0.00in
Date Started: 11/30/90	Date Completed: 12/02/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
675	65					CL				
670	70									
665	75						76' Light Gray Sandy SILT with clay, trace gravel			
660	80									
655	85									
650	90					ML	88' - more gravel			
645	95									
640	100									
635	105						104' Light Gray Silty SAND, trace fine gravel			
630	110						111' - with fine gravel			
625	115					SM				
620										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-12

Project Name: IP - Champaign Former MGP		Elevation: 738.70'	Datum:
Project Number: 122765		Coordinate X: 1012996.19	Coordinate Y: 1257431.40
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 176.50'	Borehole Dia.: 0.00in
Date Started: 11/30/90	Date Completed: 12/02/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
615	125					SM	124' Light Gray SILT, trace sand			
610	130									
605	135									
600	140					ML				
595	145									
590	150						150' - Sandy			
585	155						155' Light Gray Silty SAND, fine to medium grained			
580	160					SM				
575	165						163' Light Gray Clayey Subangular SAND, medium grained			
570	170					SC	172' - Brown Clayey SAND, trace gravel			
565	175	CTS-1 174.6-176.5	0				176.5' Termination of boring.	174.6-176.5		
560										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-13

Project Name: IP - Champaign Former MGP		Elevation: 738.70'	Datum:
Project Number: 122765		Coordinate X: 1012791.58	Coordinate Y: 1257190.74
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 170.00'	Borehole Dia.: 0.00in
Date Started: 12/04/90	Date Completed: 12/07/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	92			OL	0' Topsoil, black to brown, organic	0		
735	5	CTS-2 3-8	50				3' Grayish-Brown Silty CLAY, trace sand	1.5		LAB
						CH				
730	10	CTS-3 8-13	50				8' Water	0.5		
						SP	11' Tan SAND, fine grained, loose to wet			
725	15	CTS-4 13-18	80				13' Gray SIlty CLAY with medium grained quartz, gravel are rounded to subrounded, wet			
720	20	CTS-5 18-23	50					0.3		
						CL	21' - Shale fragments			
715	25	CTS-6 23-28	100							
710	30	CTS-7 30-40	0			ML	30' Light Gray Sandy SILT, medium grained sand			
705	35					SM	35' Light Gray Silty SAND, medium grained sand			
700	40	CTS-8 40-50	0				40' Light Gray Sandy GRAVEL, with fines, shale, and siltstone fragments			
695	45									
690	50	CTS-9 50-60	0			GC				
685	55						55' Light Gray Sandy SILT, trace clay			
680						ML				

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-13

Project Name: IP - Champaign Former MGP		Elevation: 738.70'	Datum:
Project Number: 122765		Coordinate X: 1012791.58	Coordinate Y: 1257190.74
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 170.00'	Borehole Dia.: 0.00in
Date Started: 12/04/90	Date Completed: 12/07/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
675	65	CTS-10 60-70	0				65' - with fine gravel			
670	70	CTS-11 70-80	0							
665	75									
660	80	CTS-12 80-90	0			ML				
655	85									
650	90	CTS-13 90-100	0				90' - Light Gay Sandy SILT with fine gravel, trace clay			
645	95						94' - Light Gray Clayey SILT, trace gravel			
640	100	CTS-14 100-110	0			ML				
635	105									
630	110	CTS-15 110-120	0							
625	115									
620							120' - Light Gray SILT with fine to coarse sand, trace clay			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-13

Project Name: IP - Champaign Former MGP		Elevation: 738.70'	Datum:
Project Number: 122765		Coordinate X: 1012791.58	Coordinate Y: 1257190.74
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 170.00'	Borehole Dia.: 0.00in
Date Started: 12/04/90	Date Completed: 12/07/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
615	125	CTS-16 120-130	0							
610	130	CTS-17 130-140	0			ML	130' - Trace coarse sand			
605	135						135' - Trace coarse sand 138' - Trace fine sand			
600	140	CTS-18 140-150	0				141' - Light Gray SILT, trace clay, trace sand			
595	145									
590	150	CTS-19 150-160	0				152' Light Gray Silty SAND (very fine), trace clay			
585	155									
580	160	CTS-20 160-170	0			SM				
575	165									
570	170						170' Termination of boring.			
565	175									
560										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-14

Project Name: IP - Champaign Former MGP		Elevation: 738.15'	Datum:
Project Number: 17246		Coordinate X: 1012675.00	Coordinate Y: 1257524.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 33.00'	Borehole Dia.: 0.00in
Date Started: 12/05/90	Date Completed: 12/06/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	0				0' Silt and gravel, copper colored to dark brown,(FILL) Tar-like material noted with odor	30		
735		CTS-2 3-8	0			FI		30		LAB
	5						6' Dark Green to Black CLAY. 6.5' Water			
730		CTS-3 8-13	0					9.4		
	10									
725		CTS-4 13-18	80					5.0		
	15						15' - Greenish gray to black			
						CH	17' - Thin layers of poorly-graded sand at 14 and 17 feet			
720		CTS-5 18-23	100				18' - Mottled, gold to gray	10.1		
	20									
715		CTS-6 23-28	0				23' - Mottled, Gold to Gray Silty CLAY	0		
	25									
						SP	27' Tan SAND layer, five-inches thick			
710		CTS-7 28-33	0			CL	28' Gray Silty CLAY with quartz, gravel rounded to subrounded	0.5		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-14

Project Name:	IP - Champaign Former MGP	Elevation: 738.15'	Datum:
Project Number:	17246	Coordinate X: 1012675.00	Coordinate Y: 1257524.00
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 33.00'	Borehole Dia.: 0.00in
Date Started: 12/05/90	Date Completed: 12/06/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
705	35					CL	31' - Gray Silty CLAY with gravel 33' Termination of boring.			LAB
700	40									
695	45									
690	50									
685	55									
680										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-15

Project Name: IP - Champaign Former MGP		Elevation: 738.02'	Datum:
Project Number: 17246		Coordinate X: 1012855.07	Coordinate Y: 1257484.66
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 35.00'	Borehole Dia.: 0.00in
Date Started: 12/13/91	Date Completed: 12/13/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	100			FI	0' Dark organic material (FILL)	13		
735		CTS-2 3-8	100				3' Black, Dark-Brown CLAY, stained, soft, moist	80		
	5						6' Light Brown to Gray Silty CLAY, very soft, tar-like staining with strong odor, wet			
730		CTS-3 8-10	100			CL	9' - Water			LAB
	10	CTS-4 10-13	0				11.5' - Sandy 12' - Light Brown Silty CLAY, tar-like stains	40		
725		CTS-5 13-18	100					35		
	15									
720		CTS-6 18-20	100					30		
	20	CTS-7 20-23	100				20' Dark Gray Silty CLAY, stiff, slightly damp	0		
715		CTS-8 23-28	100				23' - with fine gravel and fine sand			
	25					CL				
710		CTS-9 28-33	100				28' - Trace sand, no gravel	0		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-15

Project Name:	IP - Champaign Former MGP	Elevation: 738.02'	Datum:
Project Number:	17246	Coordinate X: 1012855.07	Coordinate Y: 1257484.66
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 35.00'	Borehole Dia.: 0.00in
Date Started: 12/13/91	Date Completed: 12/13/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
705		CTS-10 33-35	100			CL	33' Gray SAND with fine gravel, trace clay	0		LAB
	35					SP	35' Termination of boring.			
700	40									
695	45									
690	50									
685	55									
680										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-16

Project Name: IP - Champaign Former MGP		Elevation: 737.42'	Datum:
Project Number: 17246		Coordinate X: 1012546.40	Coordinate Y: 1257475.80
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 18.00'	Borehole Dia.: 0.00in
Date Started: 12/06/90	Date Completed: 12/06/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	33			FI	0' Concrete sidewalk 1' Silty clay bricks, (FILL)	0		
735		CTS-2 3-8	100			CL	2' Yellow-Brown Silty CLAY, slightly damp			
	5					ML	5' Brown Clayey SILT, slightly damp			
730		CTS-3 8-13	83			SC	7.5' Brown Clayey SAND, fine, wet. Water	54		LAB
	10						11' - Two-inch layer of tan fine grained SAND			
725		CTS-4 13-18	90			CL	12.5' Gray Silty CLAY, with gravel, quartz, coarse grained to cobbles, rounded to subrounded	0.5		
	15						15' - Layer of tan sand, fine grained. Sand stringer			LAB
720							18' Termination of boring.			
	20									
715										
	25									
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-17

Project Name: IP - Champaign Former MGP		Elevation: 737.00'	Datum:
Project Number: 122765		Coordinate X: 1012828.33	Coordinate Y: 1257706.23
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 22.00'	Borehole Dia.: 0.00in
Date Started: 12/07/90	Date Completed: 12/07/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
735	0	CTS-1 0-3	8				1' White fine gravel, slightly damp (FILL)			
		CTS-2 3-8	5			FI		0		
730	5						7' Brown Silty CLAY, soft, slightly damp			
		CTS-3 8-13	0					0		
725	10						13' - Water			
		CTS-4 13-18	70				14' - Gray Silty CLAY with gravel, quartz, rounded, stiff, moist	0		
720	15					CL	16' - Slightly damp			
		CTS-5 18-22	100				19' - Very stiff	0		
715	20						22' Termination of boring.			
	25									
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-18

Project Name: IP - Champaign Former MGP		Elevation: 737.00'	Datum:
Project Number: 17246		Coordinate X: 1013500.00	Coordinate Y: 1257150.00
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 18.00'	Borehole Dia.: 0.00in
Date Started: 12/07/90	Date Completed: 12/07/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Mark Jefferies	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	33				1' Green-tan clay, rubble, wood chips, (FILL)	0		
735										
		CTS-2 3-8	100			FI	3.5' - some tar-like material noted near this location 4' - Light Tan CLAY to black 4.5' - Slight tar-like odor noted	1.0		
	5									LAB
							6' - Light Tan to Black CLAY			
730										
		CTS-3 8-13	100				9' - Gray Sandy CLAY, wet. Water	0.5		
	10									
725						CL				
		CTS-4 13-18	100					0		
	15									
720							17' - Gray Silty CLAY, hard, stiff, moist 18' Termination of boring.			LAB
	20									
715										
	25									
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-19

Project Name: IP - Champaign Former MGP		Elevation: 737.70'	Datum:
Project Number: 122765		Coordinate X: 1013167.17	Coordinate Y: 1257361.27
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 20.00'	Borehole Dia.: 0.00in
Date Started: 12/07/90	Date Completed: 12/07/90	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Jorge Garcia	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	83			FI	1' Gravelly, silt, brown (FILL)	0		
735		CTS-2 3-8	83				3' Gray-Brown Mottled CLAY with Silt, trace gravel, organic material	0		
	5					CL				
730		CTS-3 8-13	80				8' - Brown Silty CLAY, soft, wet 8.5' - Water	0		
	10					SM	10' Brown Silty SAND, layer one-foot thick			
							11' Brown Silty CLAY, soft, wet			
725		CTS-4 13-15	100							LAB
							14' - Gray Sandy CLAY, trace gravel, very stiff, moist			
	15	CTS-5 15-18	83			CL		0		
720		CTS-6 18-20	83					0		
	20						20' Termination of boring.			
715										
	25									
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-20

Project Name:	IP - Champaign Former MGP	Elevation: 738.20'	Datum:
Project Number:	17246	Coordinate X: 1012909.17	Coordinate Y: 1257293.65
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 23.00'	Borehole Dia.: 0.00in
Date Started: 12/11/91	Date Completed: 12/11/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	33			FI	0' FILL, brown-black	0		
735		CTS-2 3-8	20				3' Light Brown-Gray Silty CLAY with fine sand, soft, moist			
	5									LAB
730		CTS-3 8-10	100					1.5		
	10	CTS-4 10-13	100				10' - wet	0.5		
							12' - Fine SAND layer. Water 12.5' - Fine SAND layer			
725		CTS-5 13-18	100			CL	13' - Gray Silty Clay with sand, soft, wet.	0		
	15									LAB
720		CTS-6 18-20	100							
	20	CTS-7 20-23	100					0		
							22' - Stiff, slightly damp			
715							23' Termination of boring.			
	25									
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-21

Project Name: IP - Champaign Former MGP		Elevation: 738.00'	Datum:
Project Number: 17246		Coordinate X: 1012835.47	Coordinate Y: 1257236.32
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 23.00'	Borehole Dia.: 0.00in
Date Started: 12/12/91	Date Completed: 12/12/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	100			FI	0' FILL	25		
							2' Light Brown Silty CLAY with sand, tar-like staining with strong odor, wet			
735		CTS-2 3-8	80					30		LAB
	5						6' - Thin sand layers and tar-like residues, black staining, strong odor			
730		CTS-3 8-10	100							
	10	CTS-4 10-13	100					30		
							11' Gray Silty CLAY, trace sand, Slight fuel odor, slightly damp.			
							12' - Fine SAND layer. Water 12.5'- Fine SAND layer			
725		CTS-5 13-18	0			CL	13' - Gray Silty Clay with sand, soft, wet	20		
	15									
720		CTS-6 18-20	100							
	20	CTS-7 20-23	100					0		LAB
							22' - Stiff, slightly damp			
715							23' Termination of boring.			
	25									
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-22

Project Name: IP - Champaign Former MGP		Elevation: 738.70'	Datum:
Project Number: 17246		Coordinate X: 1012668.71	Coordinate Y: 1257252.57
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 23.00'	Borehole Dia.: 0.00in
Date Started: 12/12/91	Date Completed: 12/12/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	100			FI	0' FILL material	0		
735	5	CTS-2 3-8	100				3' Tan Silty CLAY, trace sand, soft, wet 3.5' - Heavily staining with tar-like material to 6' 6' - Strong tar-like odor	25		LAB
730	10	CTS-3 8-10	100			CL		30		
		CTS-4 10-13	0							
725	15	CTS-5 13-18	60			SC	15' Tan-Gray Clayey SAND, trace fine gravel, fine to medium grained sand, slight tar-like odor 17' Gray-Tan Silty CLAY, stiff, slightly damp			
720	20	CTS-6 18-20	100							
		CTS-7 20-23	100			CL				LAB
715	25						23' Termination of boring.			
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-23

Project Name: IP - Champaign Former MGP		Elevation: 738.73'	Datum:
Project Number: 17246		Coordinate X: 1012740.71	Coordinate Y: 1257430.09
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 0.00in
Date Started: 12/14/91	Date Completed: 12/14/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	100			FI	0' FILL material	50		
							2' Tar-like staining			
735		CTS-2 3-8	60				3' Black CLAY with fine to medium sand, heavy staining.	120		
	5									LAB
730		CTS-3 8-10	100					120		
	10	CTS-4 10-13	100				10' - Brown Silty CLAY with trace fine sand, strong tar-like odor, very soft, moist			
725		CTS-5 13-18	100				13' - Black oily tar-like stringers throughout sample to 18 feet	75		
	15					CL				
720		CTS-6 18-23	100				18' - Gray Silty CLAY, trace sand, stiff, slightly damp 19' - Tar-like staining along fractures to 23 feet	70		
	20									
715		CTS-7 23-28	100				24' - Gray CLAY, stiff, slightly damp	55		
	25									LAB
							27' - Gray Sandy CLAY, medium stiff, sandy, no visible staining, moist			
710							28' Termination of boring.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-24

Project Name: IP - Champaign Former MGP		Elevation: 738.56'	Datum:
Project Number: 17246		Coordinate X: 1012839.89	Coordinate Y: 1257406.85
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 23.00'	Borehole Dia.: 0.00in
Date Started: 12/15/91	Date Completed: 12/15/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	100			FI	0' FILL, black, tar-like oils	30		
735		CTS-2 3-8	100				3.5' Black Silty CLAY with trace fine sand, soft, wet	90		
	5						7' - Heavy staining with tar-like oil. Water			LAB
730		CTS-3 8-10	100							
	10	CTS-4 10-12	100							
		CTS-5 12-13	100				12' - Brown Silty CLAY with slight tar-like odor, stiff, slightly damp	10		
725		CTS-6 13-18	100			CL		8		
	15						15' - Gray Silty CLAY, stiff, slightly damp with slight tar-like staining to 20 feet			
720		CTS-7 18-23	0					10		
	20						20' - No tar-like staining noted			LAB
							23' Termination of boring.			
715										
	25									
710										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-25

Project Name:	IP - Champaign Former MGP	Elevation: 738.37'	Datum:
Project Number:	17246	Coordinate X: 1012769.05	Coordinate Y: 1257341.16
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 0.00in
Date Started: 12/14/91	Date Completed: 12/14/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	100			FI	0' FILL material			
							2.5' Black Silty CLAY with tar-like staining and odor, soft, moist			
735		CTS-2 3-8	100					40		
	5						6' - Light brown-gray with moderate tar-like staining			
730		CTS-3 8-10	100				9' - Brown CLAY with sand	30		LAB
	10	CTS-4 10-13	100					50		
725		CTS-5 13-18	100					45		
	15					CL	15' - Slight tar-like odor noted			
720		CTS-6 18-23	100					5		
	20						19' - Sand layer with tar-like staining			
							21' - Gray Silty CLAY, stiff, slightly damp			
715		CTS-7 23-28	100							
	25									LAB
							27.5' - Sand stringer, stiff, slightly damp			
710							28' Termination of boring.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

UTB-27

Project Name: IP - Champaign Former MGP		Elevation: 739.40'	Datum:
Project Number: 17246		Coordinate X: 1012671.89	Coordinate Y: 1257480.61
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 23.00'	Borehole Dia.: 0.00in
Date Started: 12/16/91	Date Completed: 12/16/91	Township/Range: Sec 7; T19N; R9E	
Consultant:	Drilled By:		
Logged By: Scott Jander	Drilling Method: CTS		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		CTS-1 0-3	100			FI	0' FILL material black-brown with tar-like staining, no odor	0		
		CTS-2 3-5	100				3' Brown Sandy CLAY with dark tar-like staining throughout, very soft, moist	15		
735	5	CTS-3 5-7	100							
		CTS-4 7-10	33							LAB
730	10	CTS-5 10-12	100							
		CTS-6 12-13	100				12' - Brown to black with tar-like staining, wet. Water			
		CTS-7 13-18	100			CL	14' - Brown with no staining noted, stiff, slightly damp	17		
725	15						15.5' Gray Silty CLAY, stiff, slightly damp			
		CTS-8 18-23	100					0		
720	20									LAB
							23' Termination of boring.			
715	25									
710										

Remarks:

715
25
710

Remarks:

APPENDIX E

Phase II Well Construction Data

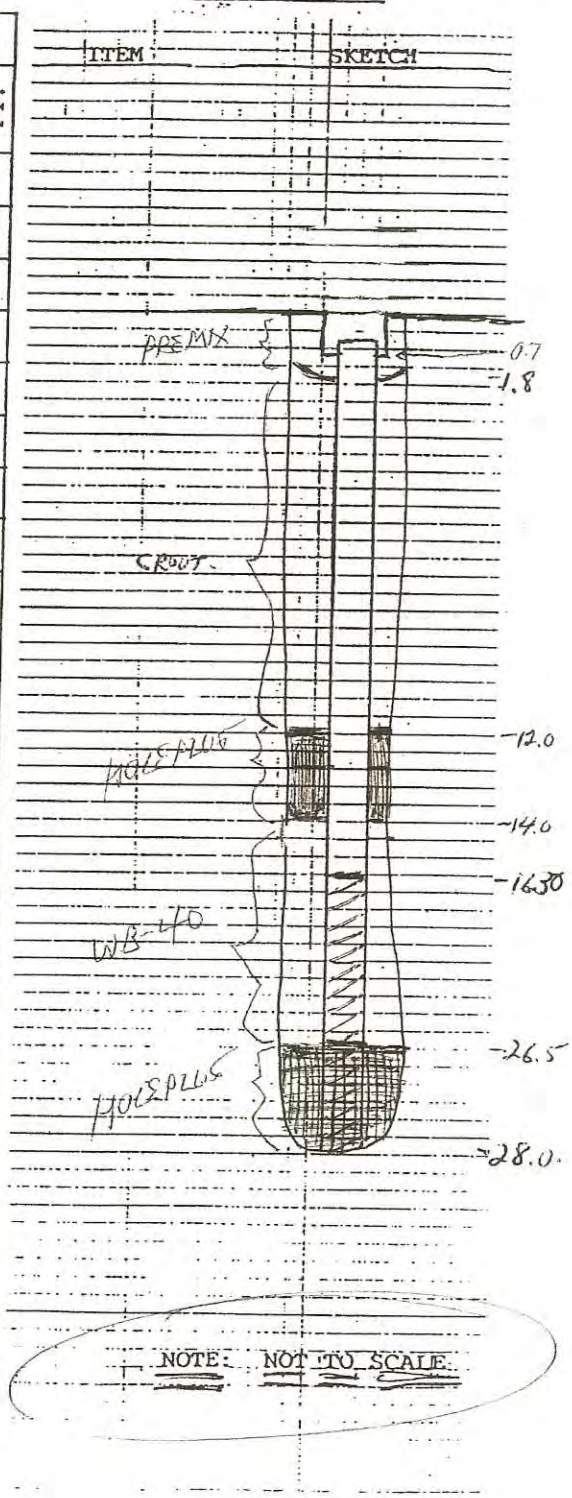
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE 1 OF 2

DATE/TIME STARTED 12-4-90 1300 COMPLETED 12-4-90 1430
PROJECT NO. 122765 PROJECT NAME IP-CHAMPAIGN, ILL.-PHASE II-A
BORING/WELL NO. UTB-01 / UMW-101 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW T. RANKER / M. HARRIS GEOLOGIST M. JEFFERIES

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING PROTECTOR		0.0		
BOTTOM OF PROTECTIVE CASING PROTECTOR	-	0.7		
TOP OF PERMANENT BOREHOLE CASING	N/A			
BOTTOM OF PERMANENT BOREHOLE CASING	N/A			
TOP OF CONCRETE		0.0		
BOTTOM OF CONCRETE	-	1.8		
TOP OF GROUT	-	1.8		
BOTTOM OF GROUT	-	12.0		
TOP OF WELL RISER	-			
TOP OF SCREEN	-	16.3		
BOTTOM OF SCREEN	-	26.5		
TOP OF PELTONITE SEAL	-	12.0		
BOTTOM OF PELTONITE SEAL	-	14.0		
TOP OF GRAVEL PACK	-	14.0		
BOTTOM OF GRAVEL PACK	-	26.5		
TOP OF NATURAL CAVE-IN NONE				
BOTTOM OF NATURAL CAVE-IN NONE				
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	-	28.0		

WELL DIAGRAM



COMMENTS

CONSTRUCTION MATERIALS

SERIAL NO. WI
PAGE 2 OF 2

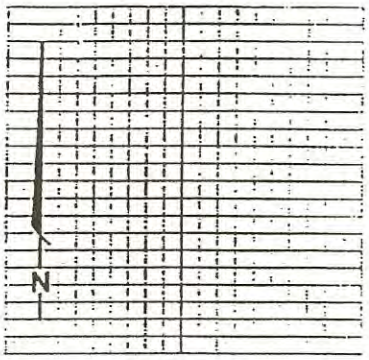
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM ALLOY LOCKING CAP: (YES) NO
DIAMETER (IN): 4" PADLOCK NO. 2132

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL: N/A
DIAMETER (IN): N/A

MONITORING WELL MATERIALS/LENGTH
WELL RISER: PVC / 15.8'
WELL SCREEN: PVC / 10.2' (INCL CAP)
WELL SCREEN SLOT SIZE: 0.01"

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: N/A
NUMBER: N/A

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5.2 x 94# = 488 #
TYPE/SIZE: WB-40 SAND

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 2 x 50# = 100 #
SIZE: BENTONITE CHIPS (HOLEPLUG)

CONCRETE BACKFILL UTILIZED: (YES) NO FOR PAD
QUANTITY: 2 x 80 # = 160 #
MIX: PREMIX + H2O

GROUT BACKFILL UTILIZED: YES NO
QUANTITY: 200# PORTLAND CEMENT + 10# BENTONITE POWDER
MIX: (2 BAGS) (½ BAG)

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:

QUANTITY: NONE QUANTITY: NONE
TYPE: TYPE:
DEPTH INTERVAL OF LOSS DEPTH INTERVAL OF LOSS

COMMENTS:

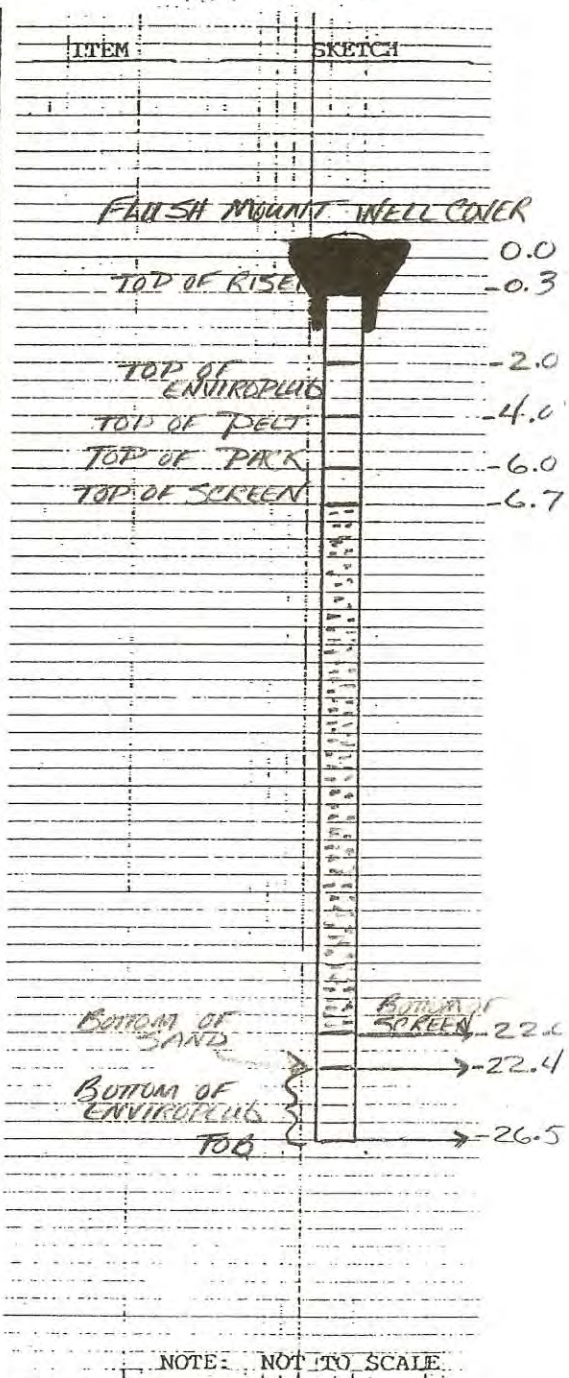
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE__OF__

DATE/TIME STARTED 11/28/90 @ 1100 COMPLETED 11/28/90 @ 1230
PROJECT NO. 122765 PROJECT NAME I.P. Champaign
BORING/WELL NO. UTB-02/UMW-102 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW HEBEL / TOEDTE GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		0'		
BOTTOM OF PROTECTIVE CASING	-	.7'		
TOP OF PERMANENT BOREHOLE CASING		N/A		
BOTTOM OF PERMANENT BOREHOLE CASING		N/A		
TOP OF CONCRETE	-	.5'		
BOTTOM OF CONCRETE	-	2.0'		
TOP OF GROUT		N/A		
BOTTOM OF GROUT		N/A		
TOP OF WELL RISER	-	0.3'		
TOP OF SCREEN	-	6.7'		
BOTTOM OF SCREEN	-	22.0'		
TOP OF PELTONITE SEAL	-	4.0'		
BOTTOM OF PELTONITE SEAL	-	6.0'		
TOP OF GRAVEL PACK	-	6.0'		
BOTTOM OF GRAVEL PACK	-	22.4'		
TOP OF ~~NATURAL CAVE-IN~~ ENVIROPLUG SEAL	-	2.0' = 22.4'		
BOTTOM OF ~~NATURAL CAVE-IN~~ ENVIROPLUG SEAL	-	4.0' = 26.5'		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	-	26.5'		

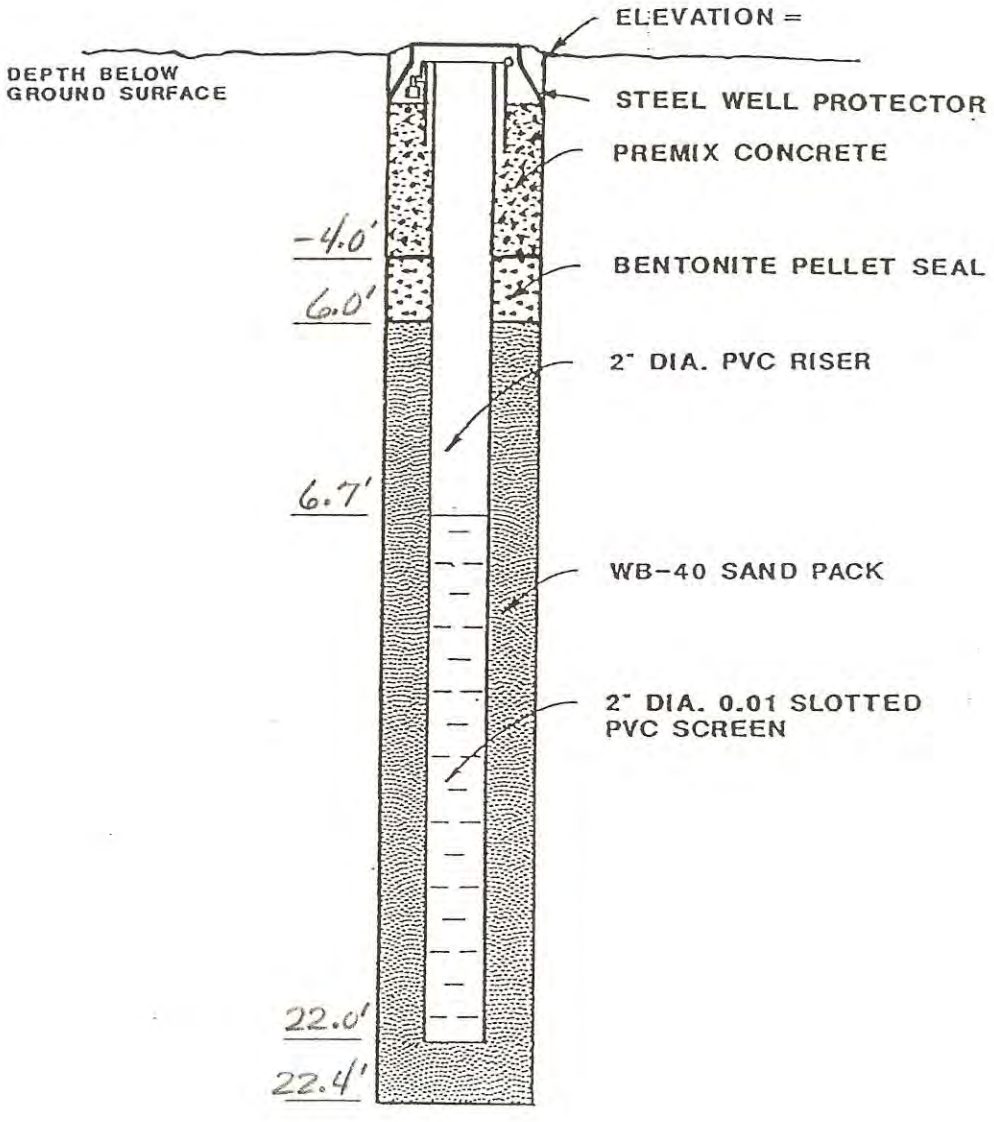
WELL DIAGRAM



COMMENTS

PROJECT NO. 122765 DRILLER HEBEL

MONITORING WELL NO. UMW-102 DATE INSTALLED 11-28-90



NOT TO SCALE

BOREHOLE DIAMETER 8" SANDPACK 16.4'

SCREEN LENGTH 15.3' RISER LENGTH 6.4'

MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE__OF__

DATE/TIME STARTED 11-30-90@0900 COMPLETED _____

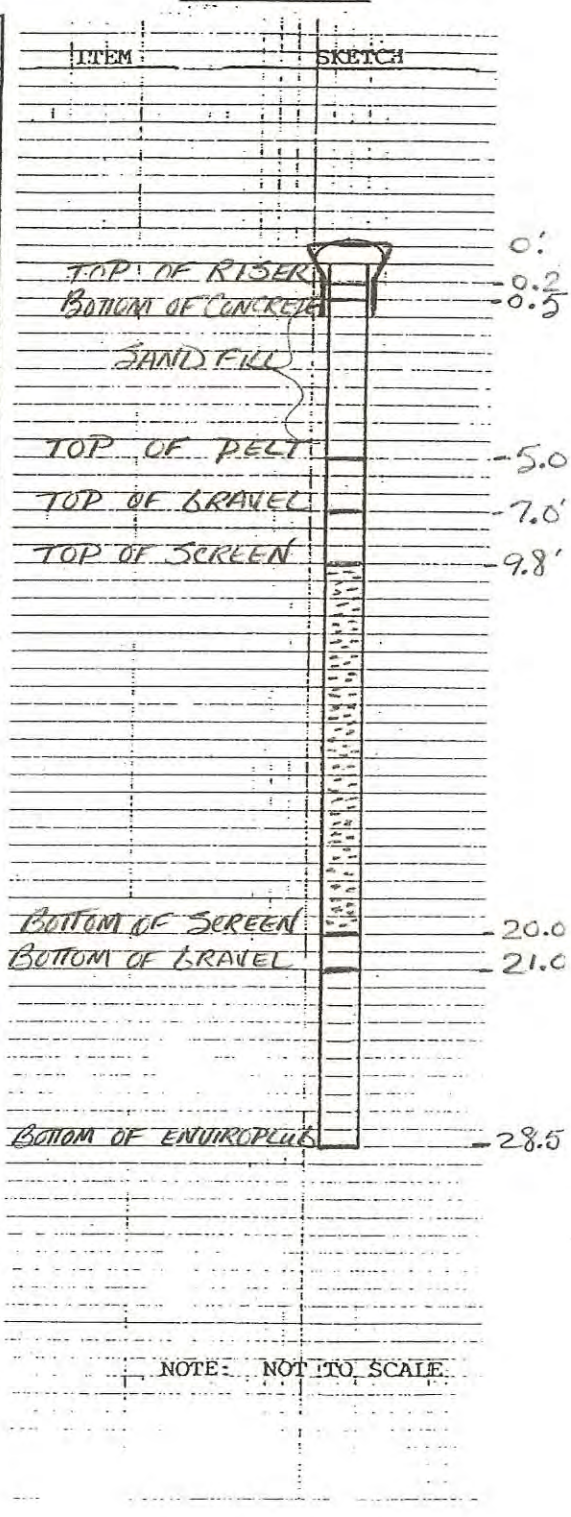
PROJECT NO. 122765 PROJECT NAME I.P. Champaign

BORING/WELL NO. UTB-03 / UMW103 MAJOR TASK 5329 SUBTASK 77

INSTALLATION CREW HEBEL / TOEDTE GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		GR		
BOTTOM OF PROTECTIVE CASING	-	0.7'		
TOP OF PERMANENT BOREHOLE CASING		N/A		
BOTTOM OF PERMANENT BOREHOLE CASING		N/A		
TOP OF CONCRETE		GR		
BOTTOM OF CONCRETE	-	0.5'		
TOP OF GROUT		N/A		
BOTTOM OF GROUT		N/A		
TOP OF WELL RISER	-	0.2'		
TOP OF SCREEN	-	9.8'		
BOTTOM OF SCREEN	-	20.0'		
TOP OF PELTONITE SEAL	-	5.0'		
BOTTOM OF PELTONITE SEAL	-	7.0'		
TOP OF GRAVEL PACK	-	7.0'		
BOTTOM OF GRAVEL PACK	-	21.0'		
TOP OF ~~NATURAL CAVE-IN~~ ENVIROPLUG	-	21.0'		
BOTTOM OF ~~NATURAL CAVE-IN~~ ENVIROPLUG	-	28.5'		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	-	28.5'		

WELL DIAGRAM



COMMENTS GR. = GRADE = 0.0'

CONSTRUCTION MATERIALS

SERIAL NO. WI_____
PAGE__OF__

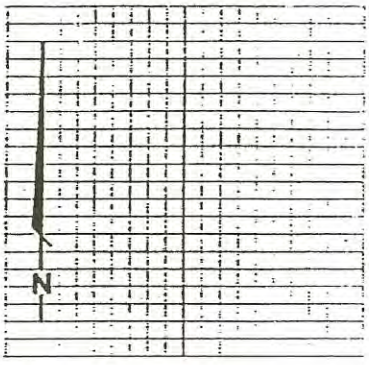
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM LOCKING CAP: (YES) NO
DIAMETER (IN): _____ PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 1 - 2" X 9.6'
WELL SCREEN: 2 - 2" X 5.1'
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: _____
NUMBER: _____

ORIENTATION:



LEGEND:

O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 4 - 100lb BAGS
TYPE/SIZE MERAMEC / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1 - 50lb. BUCKET
SIZE 1/4" PELLETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 1 - 60lb BAG
MIX: PREMIX

GROUT BACKFILL UTILIZED: YES (NO)
QUANTITY: _____
MIX: _____

FLUID INTRODUCTION

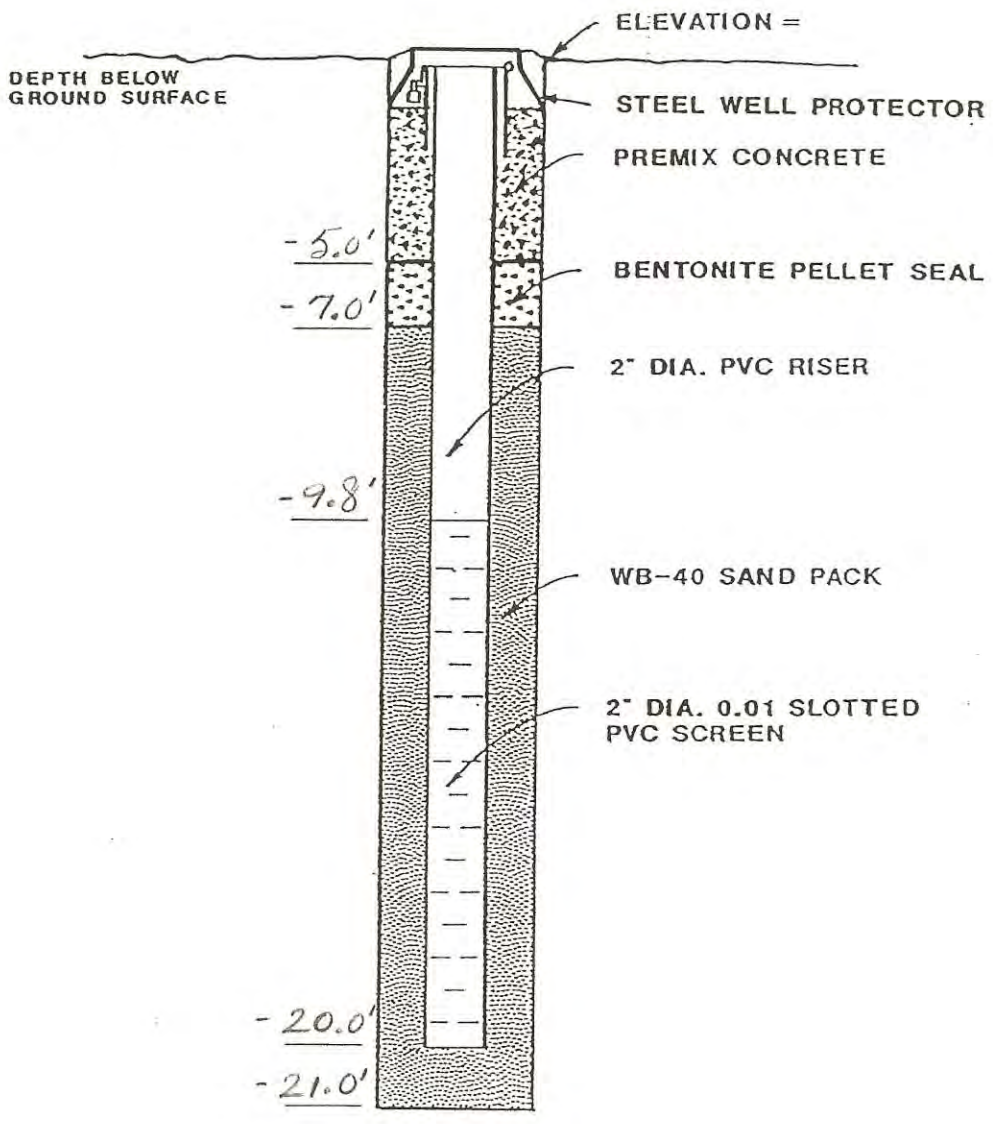
TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:

QUANTITY: _____ QUANTITY: _____
TYPE: _____ TYPE: _____
DEPTH INTERVAL OF LOSS _____ DEPTH INTERVAL OF LOSS _____

COMMENTS: 5 BAGS OF ENVIROPLUG USED TO BACKFILL HOLE FROM 21.0'-28.5'

PROJECT NO. 122765 DRILLER HEBEL

MONITORING WELL NO. UMW-103 DATE INSTALLED 11-30-90



NOT TO SCALE

BOREHOLE DIAMETER 8.5" SANDPACK 14'

SCREEN LENGTH 10.2' RISER LENGTH 9.6'

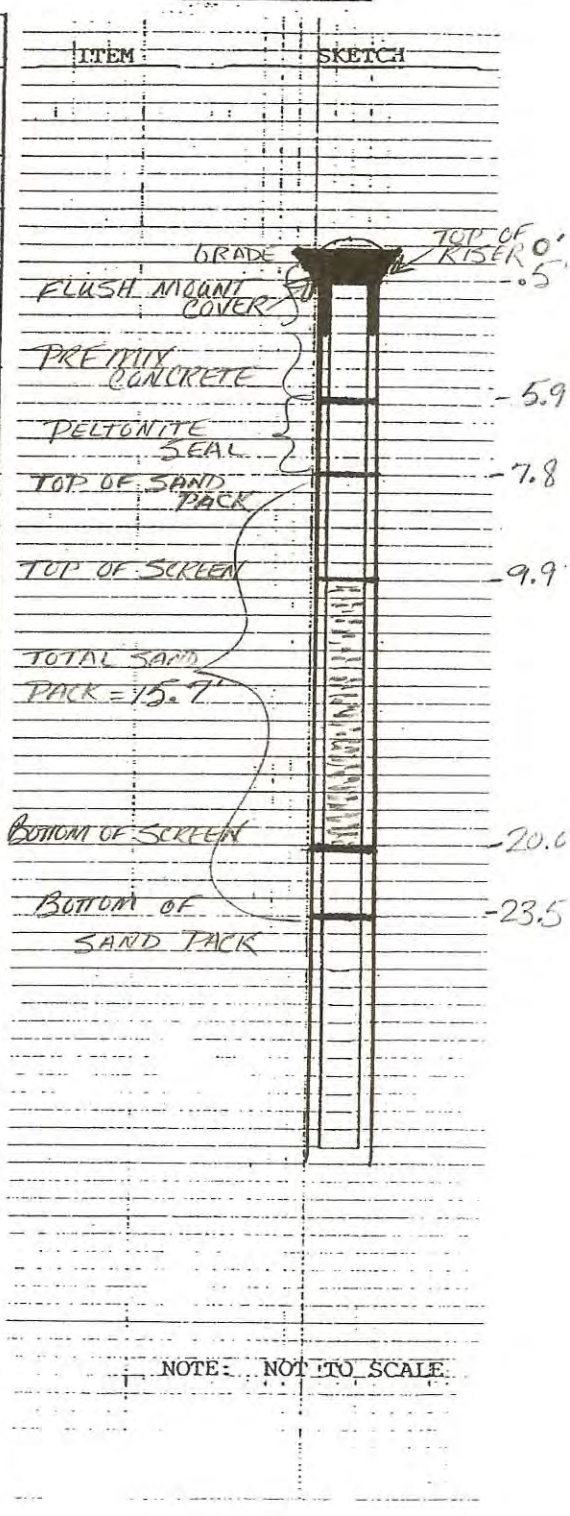
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE __ OF __

DATE/TIME STARTED 11-27-90/1400 COMPLETED 1530
PROJECT NO. 122765 PROJECT NAME I.P. Champion
BORING/WELL NO. UTB-04/UMW-104 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW HEBEL GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		N/A		
BOTTOM OF PROTECTIVE CASING		N/A		
TOP OF PERMANENT BOREHOLE CASING		N/A		
BOTTOM OF PERMANENT BOREHOLE CASING		N/A		
TOP OF CONCRETE		0		
BOTTOM OF CONCRETE	-	5.9'		
TOP OF GROUT		N/A		
BOTTOM OF GROUT		N/A		
TOP OF WELL RISER	-	.5'		
TOP OF SCREEN	-	9.9'		
BOTTOM OF SCREEN	-	20'		
TOP OF PELTONITE SEAL	-	5.9'		
BOTTOM OF PELTONITE SEAL	-	7.8'		
TOP OF GRAVEL PACK	-	7.8'		
BOTTOM OF GRAVEL PACK	-	23.5'		
TOP OF NATURAL CAVE-IN		N/A		
BOTTOM OF NATURAL CAVE-IN		N/A		
TOP OF GROUNDWATER	-	17.5'		
TOTAL DEPTH OF BOREHOLE	-	23.5'		

WELL DIAGRAM



COMMENTS

CONSTRUCTION MATERIALS

SERIAL NO. WI_____
PAGE__OF__

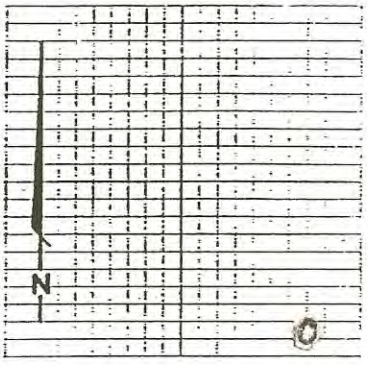
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM LOCKING CAP: (YES) NO
DIAMETER (IN):_____ PADLOCK NO._____

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL_____
DIAMETER (IN):_____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 1 - 2" X 10' 1"
WELL SCREEN: 2 - 2" X 5' 1"
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL:_____
NUMBER:_____

ORIENTATION:



LEGEND:

O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 4.5 BAGS
TYPE/SIZE MORAMEC / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1 BUCKET - 50 lb.
SIZE 1/4" PELLETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 2 BAGS = 60 lbs.
MIX: PREMIX

GROUT BACKFILL UTILIZED: YES (NO)
QUANTITY:_____
MIX:_____

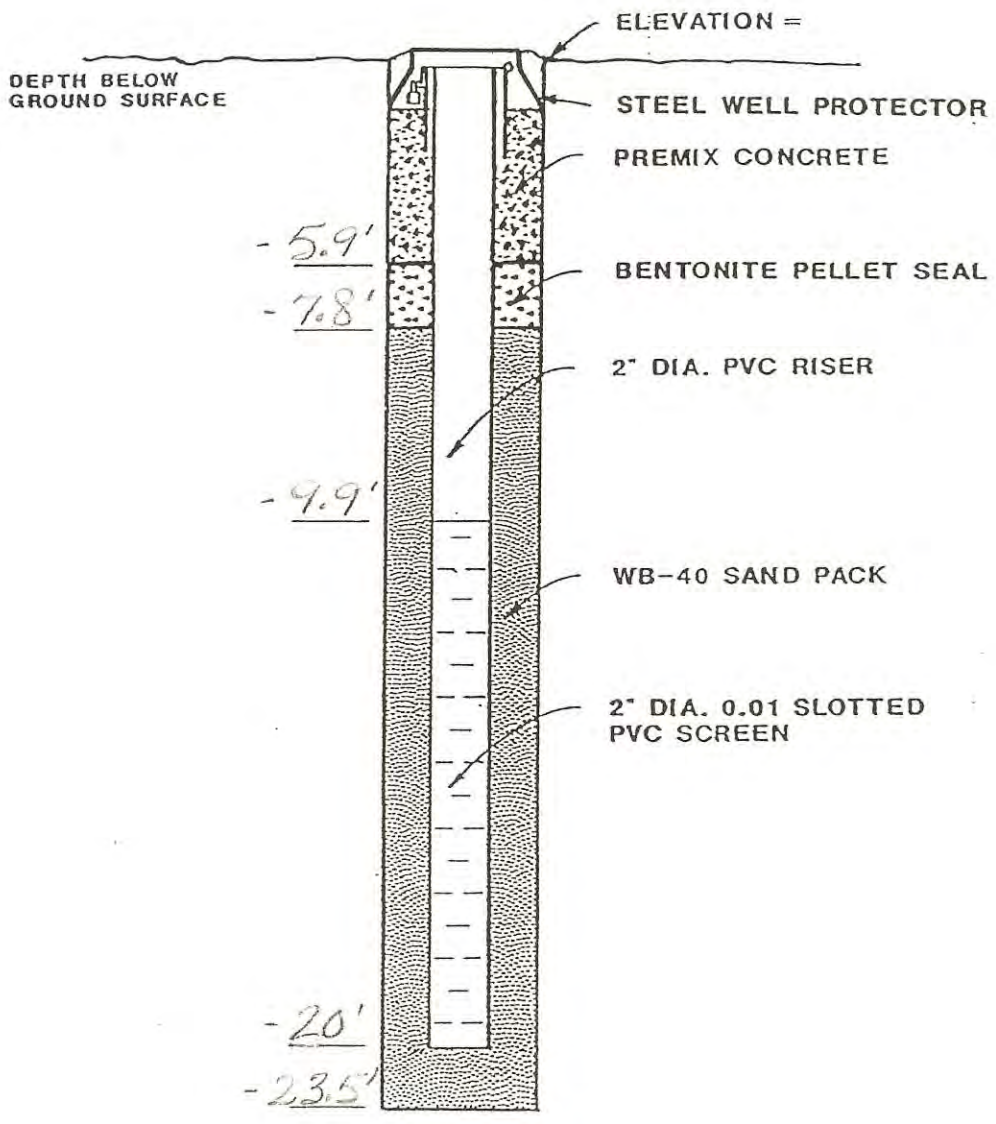
FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY:_____ QUANTITY:_____
TYPE:_____ TYPE:_____
DEPTH INTERVAL OF LOSS_____ DEPTH INTERVAL OF LOSS_____

COMMENTS:_____

PROJECT NO. 122765 DRILLER C. HILBEL

MONITORING WELL NO. UMW-104 DATE INSTALLED 11-27-90



NOT TO SCALE

BOREHOLE DIAMETER 8.5" SANDPACK 15.7'

SCREEN LENGTH 10.1' RISER LENGTH 9.3'

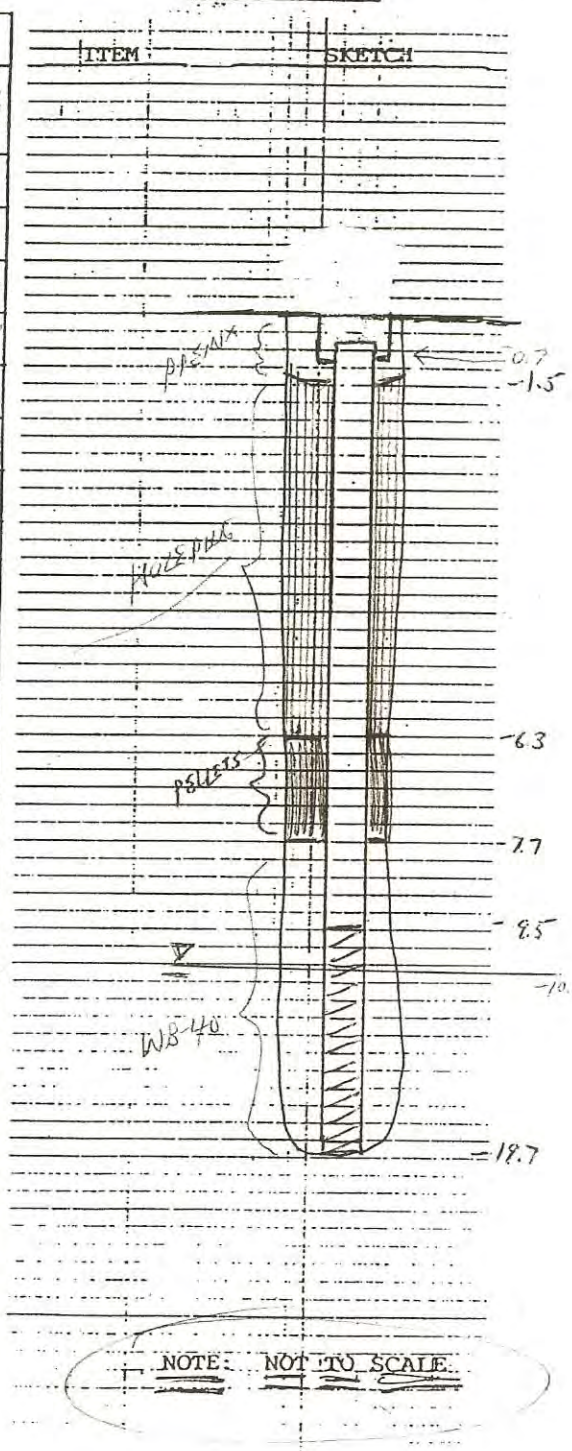
MONITORING WELL INSTALLATION

SERIAL NO. WI
PAGE 1 OF 2

DATE/TIME STARTED 12-5-90 1000 COMPLETED 12-5-90 1100
PROJECT NO. 122765 PROJECT NAME IP-CHAMPAIGN, ILL.--PHASE II-A
BORING/WELL NO. UTB-05/UMW-105 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW T. RANKER / M. HARRIS GEOLOGIST M. JEFFERIES

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING PROTECTOR	-	0.0		
BOTTOM OF PROTECTIVE CASING PROTECTOR	-	0.7		
TOP OF PERMANENT BOREHOLE CASING N/A				
BOTTOM OF PERMANENT BOREHOLE CASING N/A				
TOP OF CONCRETE		0.0		
BOTTOM OF CONCRETE	-	1.5		
TOP OF GROUT N/A				
BOTTOM OF GROUT N/A				
TOP OF WELL RISER	-			
TOP OF SCREEN	-	9.5		
BOTTOM OF SCREEN	-	17.7		
TOP OF PELTONITE SEAL	-	6.3		
BOTTOM OF PELTONITE SEAL	-	7.7		
TOP OF GRAVEL PACK	-	7.7		
BOTTOM OF GRAVEL PACK	-	17.7		
TOP OF NATURAL CAVE-IN N/A NONE				
BOTTOM OF NATURAL CAVE-IN NONE				
TOP OF GROUNDWATER	~	10.0		
TOTAL DEPTH OF BOREHOLE	-	17.7		

WELL DIAGRAM



COMMENTS

CONSTRUCTION MATERIALS

SERIAL NO. WI-
PAGE 2 OF 2

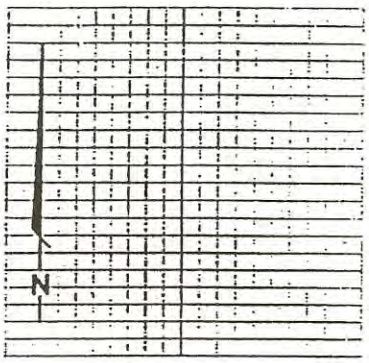
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM ALLOY LOCKING CAP: (YES) NO
DIAMETER (IN): 4" PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL N/A
DIAMETER (IN): N/A

MONITORING WELL MATERIALS/LENGTH
WELL RISER: PVC / 9.1'
WELL SCREEN: PVC / 10.2 (INCL BOTTOM PLUG)
WELL SCREEN SLOT SIZE: 0.01"

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: N/A
NUMBER: N/A

ORIENTATION:



LEGEND:

O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5 x 94# = 470 #
TYPE/SIZE WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1 x 50# = 50 #
SIZE 1/4" DIA BENTONITE PELLETS

CONCRETE BACKFILL UTILIZED: (YES) NO FOR PROTECTOR
QUANTITY: 1.5 x 80# = 120#
MIX: PREMIX + H2O

GROUT BACKFILL UTILIZED: YES (NO) HOLE PLUG USED.
QUANTITY: 2.5 x 50# = 125 #
MIX: BENTONITE CHIPS

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:

QUANTITY: NONE QUANTITY: NONE
TYPE: TYPE:
DEPTH INTERVAL OF LOSS DEPTH INTERVAL OF LOSS

COMMENTS:

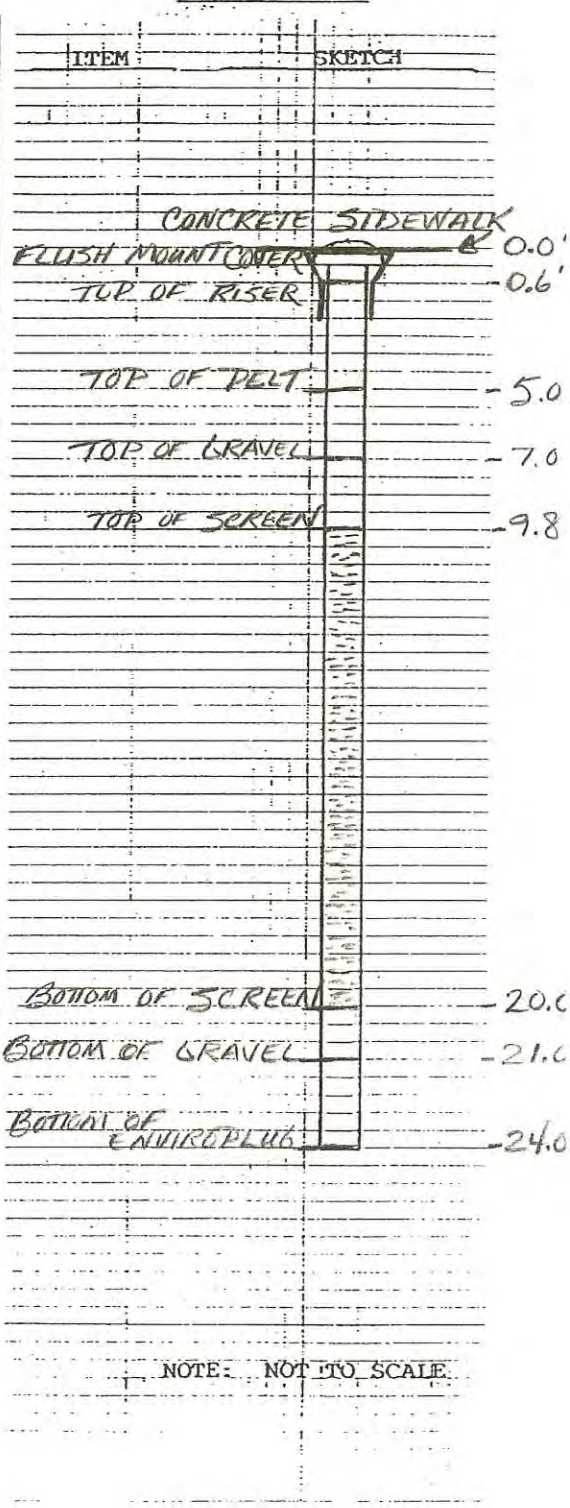
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE__OF___

DATE/TIME STARTED 11-29-90 @ 1406 COMPLETED 11-29-90 @ 1515
PROJECT NO. 122765 PROJECT NAME I. P. Champaign
BORING/WELL NO. UTB-06/UMW-106 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW HEBEL/TOEDTE GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		0'		
BOTTOM OF PROTECTIVE CASING	-	.7'		
TOP OF PERMANENT BOREHOLE CASING		N/A		
BOTTOM OF PERMANENT BOREHOLE CASING		N/A		
TOP OF CONCRETE		0'		
BOTTOM OF CONCRETE	-	5.0'		
TOP OF GROUT		N/A		
BOTTOM OF GROUT		N/A		
TOP OF WELL RISER	-	0.6'		
TOP OF SCREEN	-	9.8'		
BOTTOM OF SCREEN	-	20.0'		
TOP OF PELTONITE SEAL	-	5.0'		
BOTTOM OF PELTONITE SEAL	-	7.0'		
TOP OF GRAVEL PACK	-	7.0'		
BOTTOM OF GRAVEL PACK	-	21.0'		
TOP OF ~~NATURAL CAVE IN~~ ENVIROPLUG	-	21.0'		
BOTTOM OF ~~NATURAL CAVE IN~~ ENVIROPLUG	-	24.0'		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	-	24.0'		

WELL DIAGRAM



COMMENTS

CONSTRUCTION MATERIALS

SERIAL NO. WI_____
PAGE__OF__

WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM LOCKING CAP: (YES) NO
DIAMETER (IN): _____ PADLOCK NO. 2532

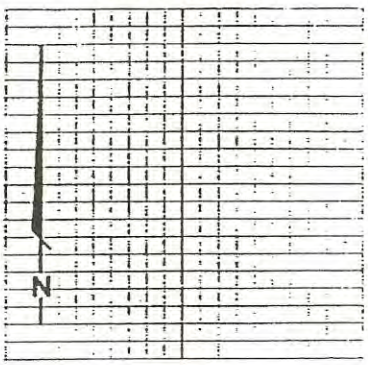
PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 1 - 2" x 9.2'
WELL SCREEN: 2 - 2" x 5.1'
WELL SCREEN SLOT SIZE: 0.010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: _____
NUMBER: _____

LEGEND:
O MONITORING WELL
● BUMPER POSTS

ORIENTATION:



GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5 BAGS
TYPE/SIZE MERAMEC / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1-50 lb BACKET
SIZE 1/4" PELLETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 2 60 lb. BAGS
MIX: PREMIX

GROUT BACKFILL UTILIZED: YES (NO)
QUANTITY: _____
MIX: _____

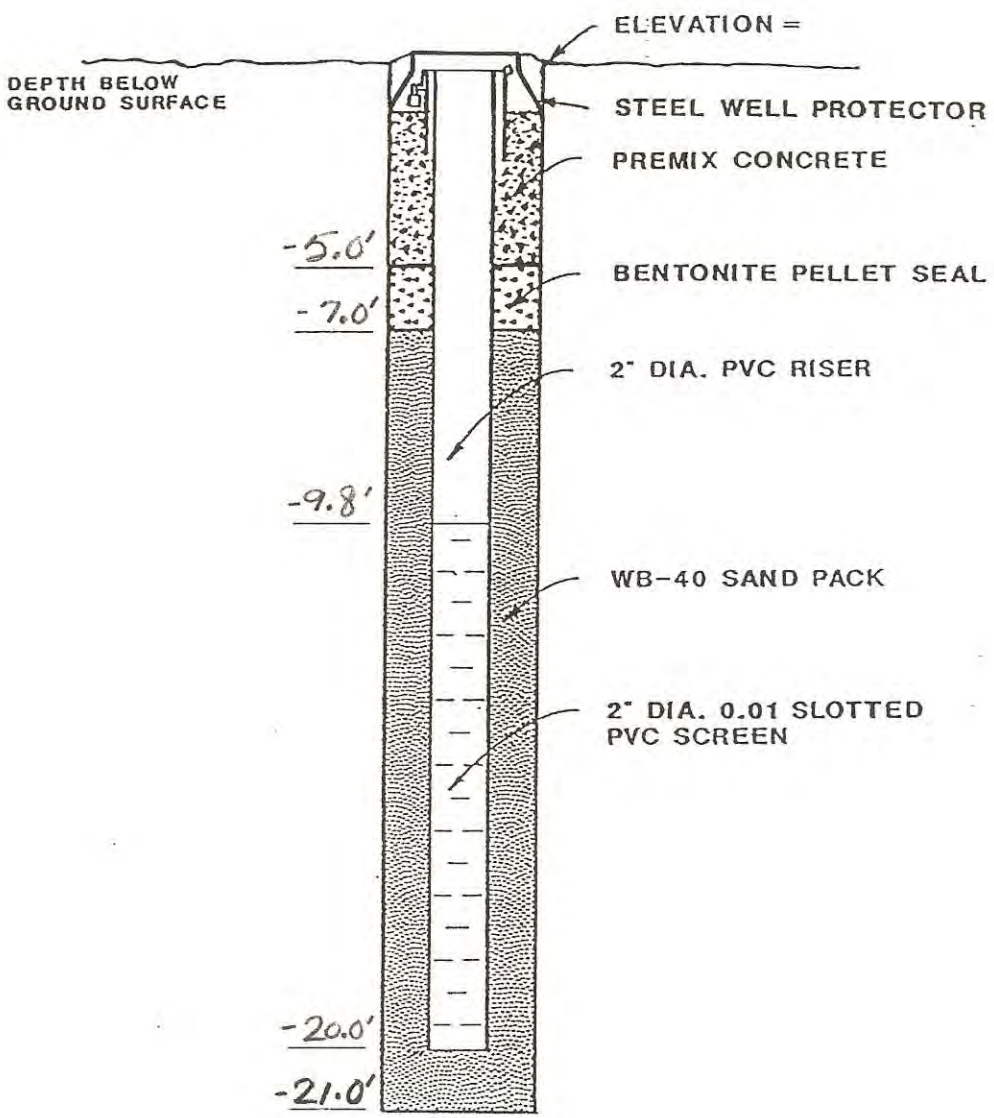
FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: _____ QUANTITY: _____
TYPE: _____ TYPE: _____
DEPTH INTERVAL OF LOSS _____ DEPTH INTERVAL OF LOSS _____

COMMENTS: 3 BAGS ENVIROPLUG USED TO BACK FILL BOREHOLE FROM 21' - 24.

PROJECT NO. 122765 DRILLER HEBEL

MONITORING WELL NO. UMW-106 DATE INSTALLED 11-29-90



NOT TO SCALE

BOREHOLE DIAMETER 8" SANDPACK 14.0'

SCREEN LENGTH 10.2' RISER LENGTH 9.2'

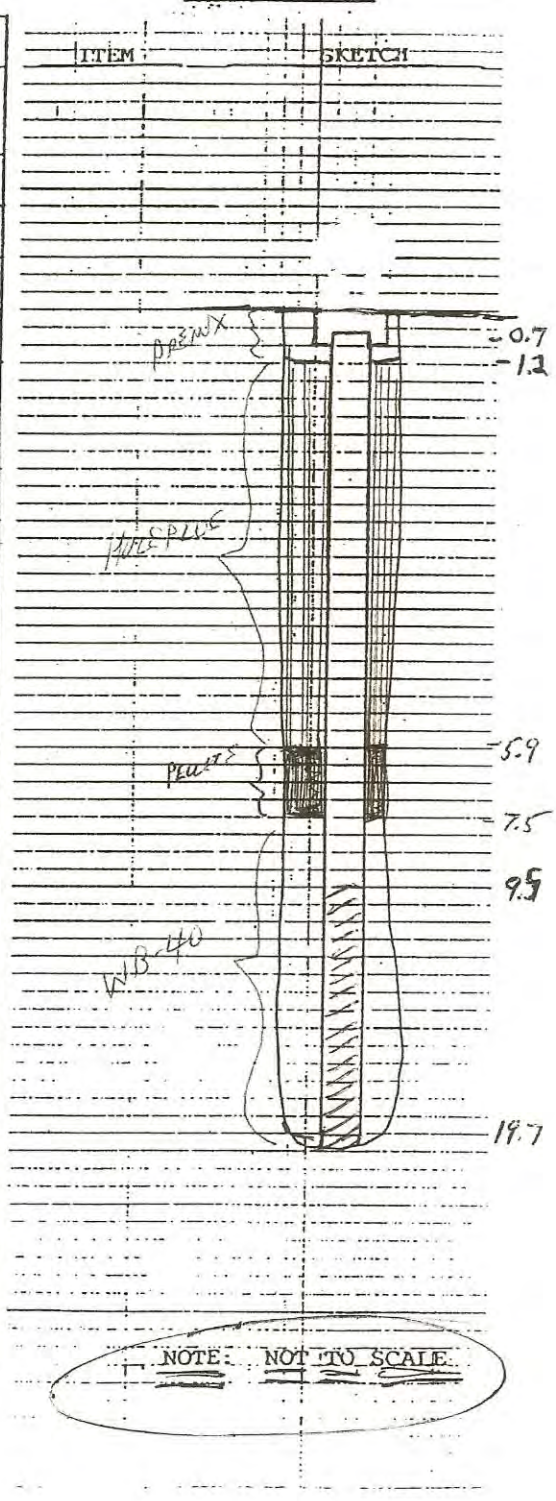
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE 1 OF 2

DATE/TIME STARTED 12-5-90; 1400 COMPLETED 12-5-90; 1445
PROJECT NO. 122765 PROJECT NAME IP-CHAMPAIGN, ILL.-PHASE II-A
BORING/WELL NO. UTB-07/UMW-107 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW J. RANKER / M. HARRIS GEOLOGIST M. JEFFERIES

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING PROTECTOR	–	0.0		
BOTTOM OF PROTECTIVE CASING PROTECTOR	–	0.7		
TOP OF PERMANENT BOREHOLE CASING	N/A			
BOTTOM OF PERMANENT BOREHOLE CASING	N/A			
TOP OF CONCRETE	–	0.0		
BOTTOM OF CONCRETE	–	1.2		
TOP OF GROUT N/A				
BOTTOM OF GROUT N/A				
TOP OF WELL RISER				
TOP OF SCREEN	–	9.5		
BOTTOM OF SCREEN	–	19.7		
TOP OF PELTONITE SEAL	–	5.9		
BOTTOM OF PELTONITE SEAL	–	7.5		
TOP OF GRAVEL PACK	–	7.5		
BOTTOM OF GRAVEL PACK	–	19.7		
TOP OF NATURAL CAVE-IN NONE				
BOTTOM OF NATURAL CAVE-IN NONE				
TOP OF GROUNDWATER	–	8.0		
TOTAL DEPTH OF BOREHOLE	–	19.7		

WELL DIAGRAM



COMMENTS

CONSTRUCTION MATERIALS

SERIAL NO. WI-
PAGE 2 OF 2

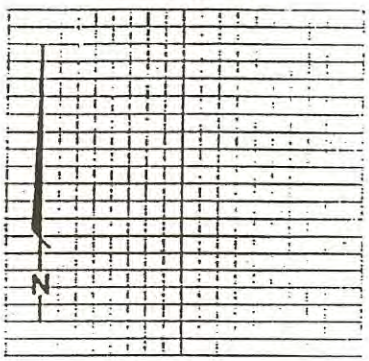
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM ALLOY LOCKING CAP: (YES) NO
DIAMETER (IN): 4" PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL N/A
DIAMETER (IN): N/A

MONITORING WELL MATERIALS/LENGTH
WELL RISER: PVC / 9'
WELL SCREEN: PVC / 10.2' (INCL. CAP)
WELL SCREEN SLOT SIZE: 0.01"

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: N/A
NUMBER: N/A

ORIENTATION:



LEGEND:

O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5 x 94# = 470#
TYPE/SIZE WB-40

PELTONITE SEAL INSTALLED: YES NO
QUANTITY: (PELLETS 1 x 50#) + ~~(POWDER)~~ = 50#
SIZE 1/4" DIA

CONCRETE BACKFILL UTILIZED: YES NO FOR PROTECTOR
QUANTITY: 1.5 x 80# = 120#
MIX: PREMIX + H_2O

GROUT BACKFILL UTILIZED: YES (NO) USED HOLE PLUG
QUANTITY: 2.5 x 50# = 125#
MIX: BENTONITE CHIPS

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:

QUANTITY: NONE QUANTITY: NONE
TYPE: TYPE:
DEPTH INTERVAL OF LOSS DEPTH INTERVAL OF LOSS

COMMENTS:

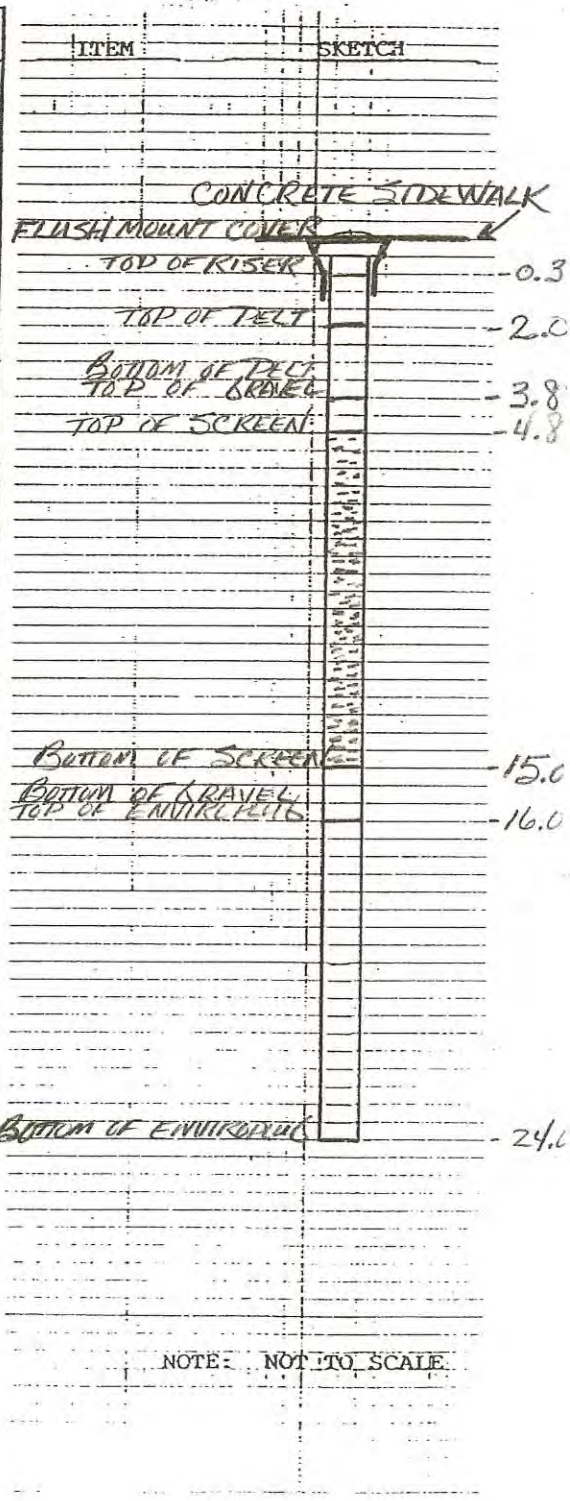
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE__OF__

DATE/TIME STARTED 11-29-90 @ 0845 COMPLETED 11-29-90 @ 1045
PROJECT NO. 122765 PROJECT NAME I. P. Champaign
BORING/WELL NO. UTB-08B/UMW108B MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW HEBEL/TOEDTE GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		0.'		
BOTTOM OF PROTECTIVE CASING	-	.7'		
TOP OF PERMANENT BOREHOLE CASING		N/A		
BOTTOM OF PERMANENT BOREHOLE CASING		N/A		
TOP OF CONCRETE		0.'		
BOTTOM OF CONCRETE	-	2.0'		
TOP OF GROUT		N/A		
BOTTOM OF GROUT		N/A		
TOP OF WELL RISER	-	0.3'		
TOP OF SCREEN	-	4.8'		
BOTTOM OF SCREEN	-	15.'		
TOP OF PELTONITE SEAL	-	2.0'		
BOTTOM OF PELTONITE SEAL	-	3.8'		
TOP OF GRAVEL PACK	-	3.8'		
BOTTOM OF GRAVEL PACK	-	16.'		
TOP OF ~~NATURAL CAVE IN~~ ENVIROPLUG	-	16.'		
BOTTOM OF ~~NATURAL CAVE IN~~ ENVIROPLUG	-	24.'		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	-	24.'		

WELL DIAGRAM



COMMENTS

CONSTRUCTION MATERIALS

SERIAL NO. WI_____
PAGE__OF__

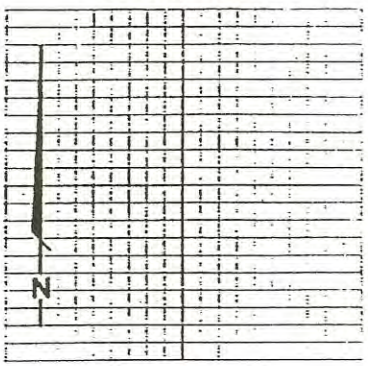
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM LOCKING CAP: (YES) NO
DIAMETER (IN): _____ PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 1 - 2" X 4.5'
WELL SCREEN: 2 - 2" x 5.1'
WELL SCREEN SLOT SIZE: 0.010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: _____
NUMBER: _____

ORIENTATION:



LEGEND:

O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5 ½ BAGS
TYPE/SIZE MERAMEC / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1 50lb BUCKET
SIZE ¼" PELLETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 1 60 lb BAG
MIX: PREMIX

GROUT BACKFILL UTILIZED: YES (NO)
QUANTITY: _____
MIX: _____

FLUID INTRODUCTION

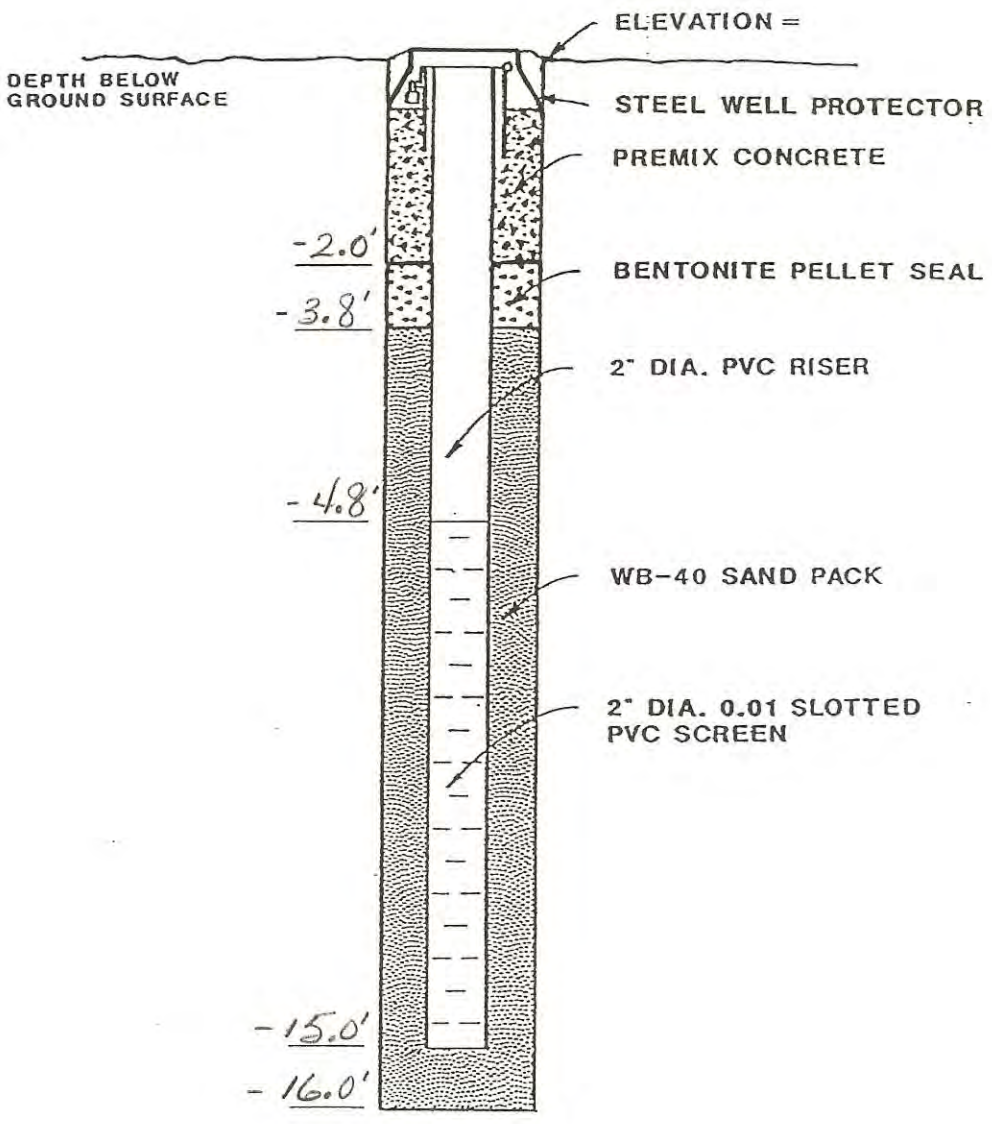
TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:

QUANTITY: _____ QUANTITY: _____
TYPE: _____ TYPE: _____
DEPTH INTERVAL OF LOSS _____ DEPTH INTERVAL OF LOSS _____

COMMENTS: 4 BAGS ENVIROPLUG USED FROM 16.0' - 24.0'

PROJECT NO. 122765 DRILLER HEBEL

MONITORING WELL NO. UMW-108B DATE INSTALLED 11-29-90



NOT TO SCALE

BOREHOLE DIAMETER 8.5" SANDPACK 12.2'

SCREEN LENGTH 10.2' RISER LENGTH 4.5'

CONSTRUCTION MATERIALS

SERIAL NO. WI _____
PAGE 1 OF 1

WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM / FLUSH MT. LOCKING CAP: (YES) NO
DIAMETER (IN): 8" PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL: _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 9.5' - 2" # 304 SS
WELL SCREEN: 10' - 2" # 304 SS
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: _____
NUMBER: _____

ORIENTATION:

LEGEND:
O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 4 (100 lb.) BAGS (11')
TYPE/SIZE: MEREMAC / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1 (50 lb.) BAG (2')
SIZE: HOLE PLUG NUGGETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: ½ BAG FOR FLUSH MT.
MIX: PREMIX

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 25 GAL (6¼')
MIX: ¼ BAG BENTONITE GEL + 2 BAGS PORTLAND CEMENT

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE
TYPE: _____
DEPTH INTERVAL OF LOSS _____

QUANTITY: _____
TYPE: _____
DEPTH INTERVAL OF LOSS _____

COMMENTS: _____

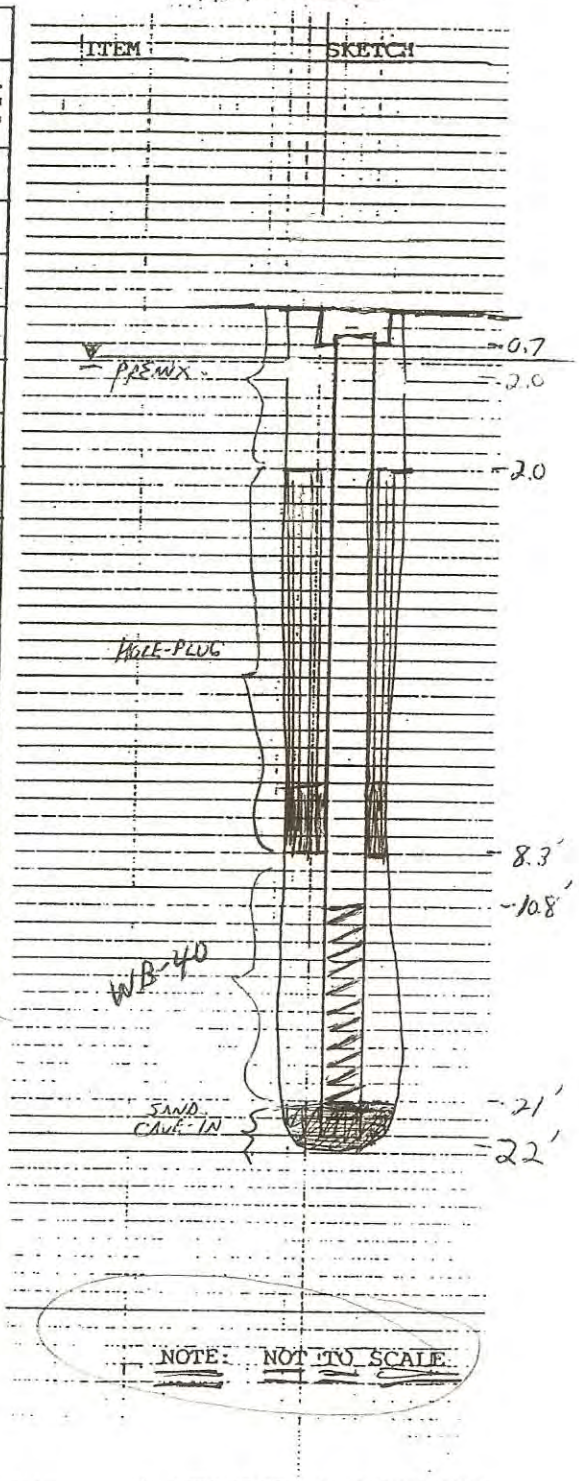
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE 1 OF 2

DATE/TIME STARTED 12-4-90 0800 COMPLETED 12-4-90 0900
PROJECT NO 122765 PROJECT NAME IP-CHAMPAIGN, ILL.--PHASE II-A
BORING/WELL NO. UIB-10/UMW-110 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW T. BANKER / M. HARRIS GEOLOGIST M. JEFFERIES

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING PROTECTOR	–	0.0		
BOTTOM OF PROTECTIVE CASING PROTECTOR	–	0.7		
TOP OF PERMANENT BOREHOLE CASING	N/A			
BOTTOM OF PERMANENT BOREHOLE CASING	N/A			
TOP OF CONCRETE		0.0		
BOTTOM OF CONCRETE	–	2.0		
TOP OF GROUT N/A				
BOTTOM OF GROUT N/A				
TOP OF WELL RISER				
TOP OF SCREEN	–	10.8		
BOTTOM OF SCREEN	–	21.0		
TOP OF PELTONITE SEAL	–	2.0		
BOTTOM OF PELTONITE SEAL	–	8.3		
TOP OF GRAVEL PACK	–	8.3		
BOTTOM OF GRAVEL PACK	–	21.0		
TOP OF NATURAL CAVE-IN	–	21		
BOTTOM OF NATURAL CAVE-IN	–	22		
TOP OF GROUNDWATER *	–	1.0		
TOTAL DEPTH OF BOREHOLE ORIGINALLY	–	22.0		

WELL DIAGRAM



COMMENTS * MEASURED. 12-4-90. 0800

SERIAL NO. WI-
PAGE 2 OF 2

CONSTRUCTION MATERIALS

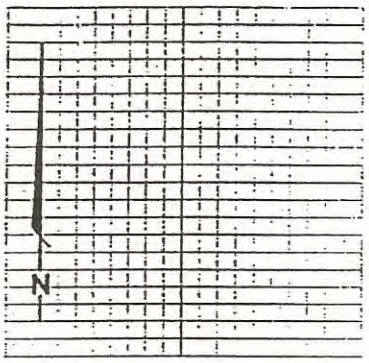
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM ALLOY LOCKING CAP: (YES) NO
DIAMETER (IN): 4" PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL: N/A
DIAMETER (IN): N/A

MONITORING WELL MATERIALS/LENGTH
WELL RISER: PVC / 10.3
WELL SCREEN: PVC / 10.2 (INCL CAP)
WELL SCREEN SLOT SIZE: 0.01"

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: N/A
NUMBER: N/A

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5.3 x 94# = 500 #
TYPE/SIZE: WB-40 SAND

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 3 x 50# = 150 #
SIZE: BENTONITE CHIPS (HOLEPLUG)

CONCRETE BACKFILL UTILIZED: (YES) NO FOR PROTECTOR
QUANTITY: 1.5 x 80 # = 120 #
MIX: POZMIX + H_2O.

GROUT BACKFILL UTILIZED: YES (NO)
QUANTITY: N/A
MIX: N/A

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:

QUANTITY: NONE QUANTITY: NONE
TYPE: TYPE:
DEPTH INTERVAL OF LOSS DEPTH INTERVAL OF LOSS

COMMENTS:

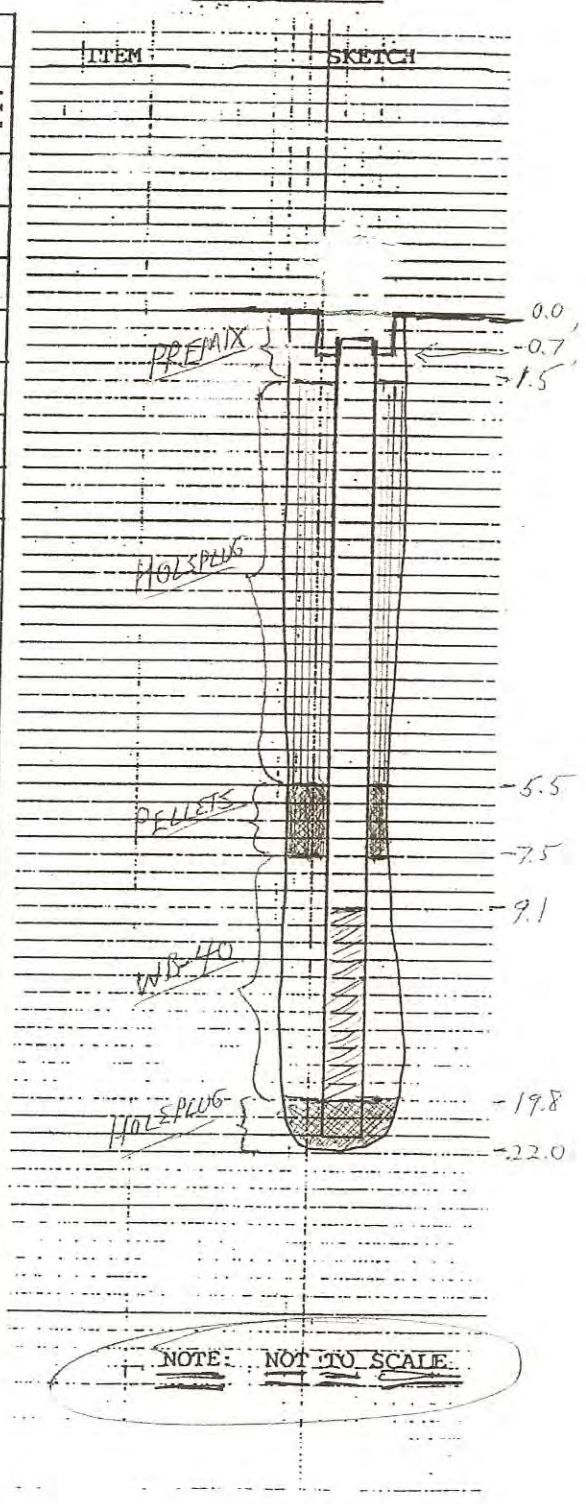
MONITORING WELL INSTALLATION

SERIAL NO. WI _____
PAGE 1 OF 2

DATE/TIME STARTED 12-7-90; 1000 COMPLETED 12-7-90; 1030
PROJECT NO. 122765 PROJECT NAME IP-CHAMPAIGN, ILL.--PHASE II-A
BORING/WELL NO. UTB-17/UMW-11 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW T. RADKER / M. HARRIS GEOLOGIST M. JEFFERIES

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING PROTECTOR		0.0		
BOTTOM OF PROTECTIVE CASING PROTECTOR		0.7		
TOP OF PERMANENT BOREHOLE CASING N/A				
BOTTOM OF PERMANENT BOREHOLE CASING N/A				
TOP OF CONCRETE	–	0.0		
BOTTOM OF CONCRETE	–	1.5		
TOP OF GROUT N/A, USED HOLEPLUG	–	1.5		
BOTTOM OF GROUT N/A, USED HOLEPLUG	–	5.5		
TOP OF WELL RISER				
TOP OF SCREEN	–	9.1		
BOTTOM OF SCREEN	–	19.8		
TOP OF PELTONITE SEAL	–	5.5		
BOTTOM OF PELTONITE SEAL	–	7.5		
TOP OF GRAVEL PACK	–	7.5		
BOTTOM OF GRAVEL PACK	–	19.8		
TOP OF NATURAL CAVE-IN NONE				
BOTTOM OF NATURAL CAVE-IN NONE				
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE ORIG. 22' BACKFILLED TO 19.8 W/ HOLEPLUG	–	19.8		

WELL DIAGRAM



COMMENTS

CONSTRUCTION MATERIALS

SERIAL NO. WI
PAGE 2 OF 2

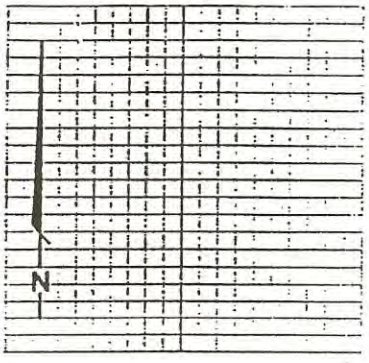
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM ALLOY LOCKING CAP: (YES) NO
DIAMETER (IN): 4" PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: YES NO
MATERIAL: N/A
DIAMETER (IN): N/A

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 5S/ 8.6'
WELL SCREEN: 5S/ 10.7' (INCL. BOTTOM CAP)
WELL SCREEN SLOT SIZE: 0.01"

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: N/A
NUMBER: N/A

ORIENTATION:



LEGEND:

O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5 x 94 = 470 #.
TYPE/SIZE WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1 x 50 # = 50 #
SIZE ¼" DIA PELLETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 1.5 x 80 # = 120 #
MIX: PREMIX + ½ O

GROUT BACKFILL UTILIZED: YES (NO) USED HOLEPLUG
QUANTITY: 2 x 50 # = 100 #
MIX: BENTONITE CHIPS

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:

QUANTITY: NONE QUANTITY: NONE
TYPE: TYPE:
DEPTH INTERVAL OF LOSS DEPTH INTERVAL OF LOSS

COMMENTS:

MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE __ OF __

DATE/TIME STARTED 12-7-90 COMPLETED 12-7-90

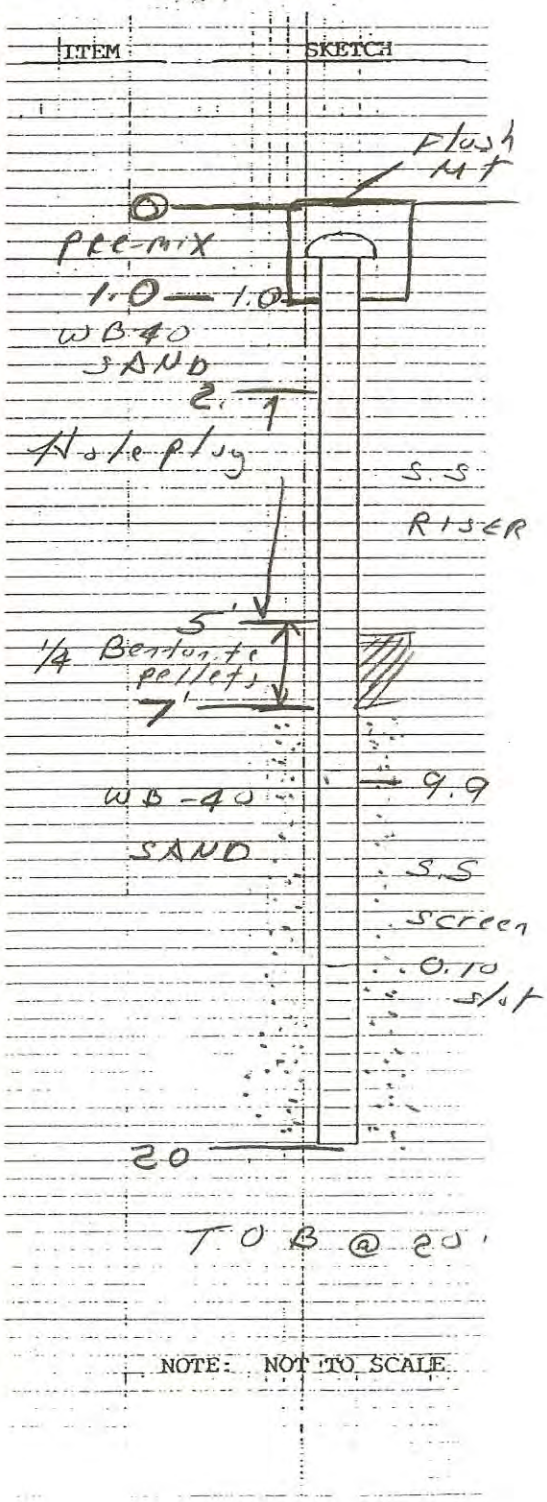
PROJECT NO. 122765 PROJECT NAME I. P. Champaign

BORING/WELL NO UTB-19 UMW-112 MAJOR TASK 5329 SUBTASK 77

INSTALLATION CREW S. Baker GEOLOGIST J. Garcia

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		0		
BOTTOM OF PROTECTIVE CASING				
TOP OF PERMANENT BOREHOLE CASING		—		
BOTTOM OF PERMANENT BOREHOLE CASING		—		
TOP OF CONCRETE		0		
BOTTOM OF CONCRETE	–	1.0		
TOP OF ~~GROUT~~ Hole plug	–	2.0		
BOTTOM OF ~~GROUT~~ Hole plug	–	5.0		
TOP OF WELL RISER	–			
TOP OF SCREEN	–	9.9		
BOTTOM OF SCREEN	–	20		
TOP OF PELTONITE SEAL	–	5		
BOTTOM OF PELTONITE SEAL	–	7		
TOP OF GRAVEL PACK	–	7		
BOTTOM OF GRAVEL PACK	–	20		
TOP OF NATURAL CAVE-IN				
BOTTOM OF NATURAL CAVE-IN		—		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	–	20.0		

WELL DIAGRAM



COMMENTS

MONITORING WELL INSTALLATION

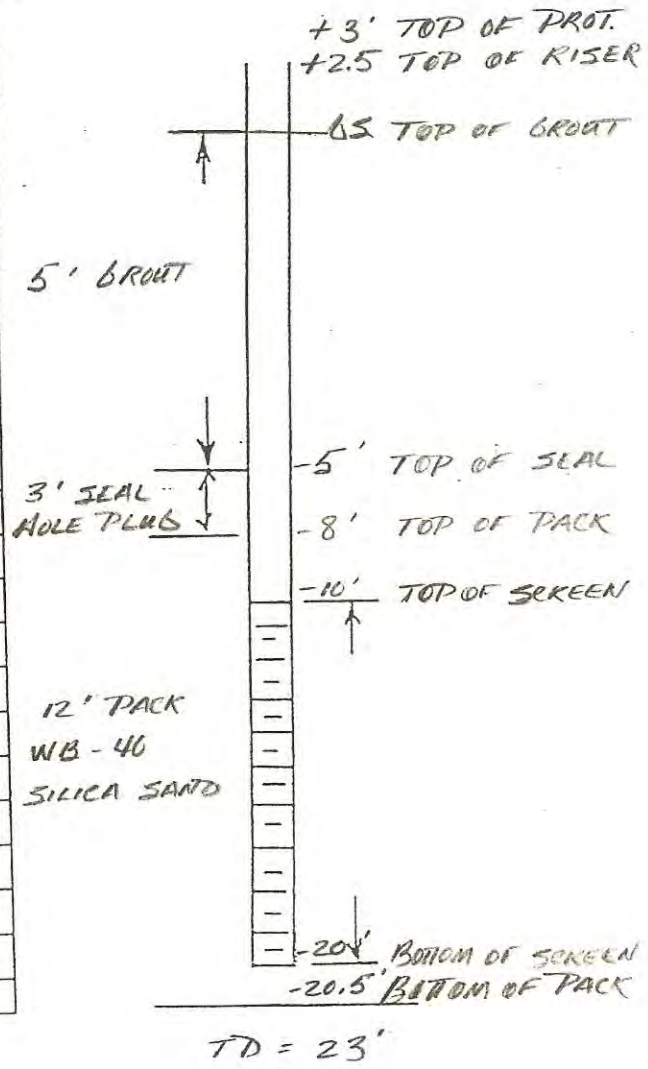
Borehole- UTB-20
WELL NO. : UMW-113

PROJECT NAME: IP-CHAMPAIGN
PROJECT NO. : 122765 PHASE: 5336 TASK: 77
DATE/TIME: STARTED: 12·11·91@1430 COMPLETED: 12·11·91@1630
INSTALLATION CREW: CRANK, THOMAS, SMITH, JANDER

DEPTHS IN REFERENCES TO GROUND SURFACE

ITEM	+/-	DEPTH FT.
TOP OF WELL PROTECTOR	+	3'
BOTTOM OF WELL PROTECTOR	-	2.5'
TOP OF PERMANENT BOREHOLE CASING		—
BOTTOM OF PERMANENT BOREHOLE CASING		—
TOP OF CONCRETE		G.S.
BOTTOM OF CONRETE	-	.5
TOP OF GROUT	-	.5'
BOTTOM OF GROUT	-	5'
TOP OF WELL RISER	+	2.5
TOP OF SCREEN	-	10'
BOTTOM OF SCREEN	-	20'
TOP OF PELTONITE SEAL	-	5'
BOTTOM OF PELTONITE SEAL	-	8'
TOP OF GRAVEL PACK	-	8'
BOTTOM OF GRAVEL PACK	-	20.5'
BOTTOM OF NATURAL CAVE-IN		N/A
TOP OF NATURAL CAVE-IN		N/A
TOP OF GROUNDWATER		
TOTAL DEPTH OF BOREHOLE	-	23'

WELL DIAGRAM



COMMENTS: BACKFILLED FROM -23' TO 20.5 W/ BENTONITE HOLE PLUG

GEOLOGIST SIGNATURE: Scott Jander

CONSTRUCTION MATERIALS

SERIAL NO. WI _____
PAGE 1 OF 1

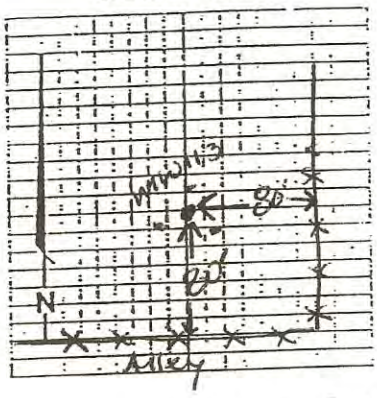
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: STEEL / ABOVE GROUND LOCKING CAP: (YES) NO
DIAMETER (IN): 4" PADLOCK NO. ~~2332~~ 2321

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 12.5' - 2" #304 SS
WELL SCREEN: 10' - 2" #304 SS
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: (YES) ~~NO~~
MATERIAL: Steel - Filled w/ sand topped w/ Premix.
NUMBER: 3

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS
~~x x x~~ - Fence.

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 4.5 (100 lb) BAGS (12½')
TYPE/SIZE WB-40 / SILICA SAND

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 2 (50 lb.) BAGS (3')
SIZE BENTONITE HOLE PLUG NUGGETS

CONCRETE BACKFILL UTILIZED: YES (NO)
QUANTITY: 1/4 Sack
MIX: Premix

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 13 GAL (5')
MIX: 1/4 BAG BENTONITE + 2 BAGS PORTLAND CEMENT

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE
TYPE: —
DEPTH INTERVAL OF LOSS —

QUANTITY: —
TYPE: —
DEPTH INTERVAL OF LOSS —

COMMENTS: —

MONITORING WELL INSTALLATION

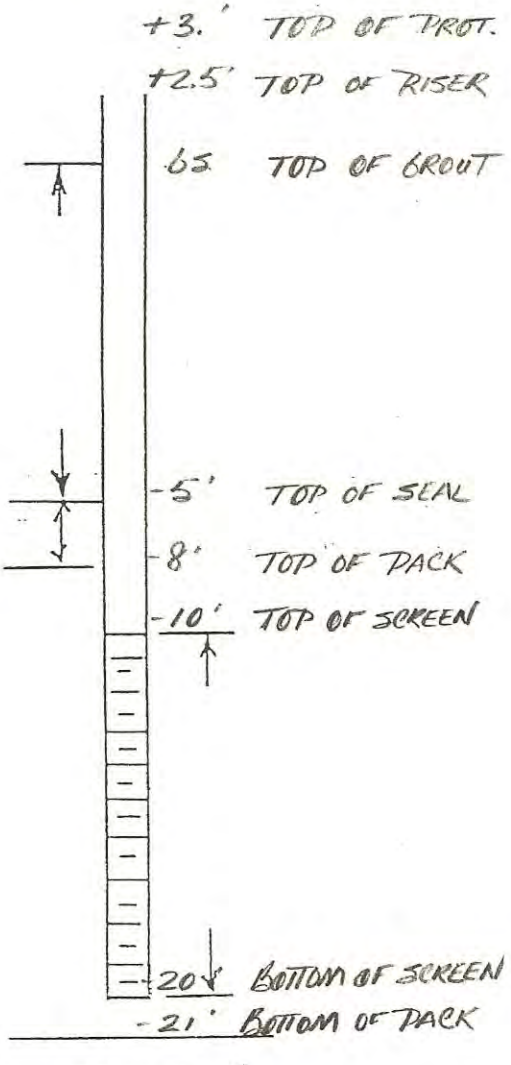
WELL NO. : UMW - 114

PROJECT NAME: IP - CHAMPAIGN
PROJECT NO. : 122765 PHASE: 5336 TASK: 77
DATE/TIME: STARTED: 12·12·91 @ 0930 COMPLETED: 12·12·91 @ 1030
INSTALLATION CREW: CRANK, THOMAS, SMITH

DEPTHS IN REFERENCES TO GROUND SURFACE

ITEM	+/-	DEPTH FT.
TOP OF WELL PROTECTOR	+	3.'
BOTTOM OF WELL PROTECTOR	-	2.5'
TOP OF PERMANENT BOREHOLE CASING		—
BOTTOM OF PERMANENT BOREHOLE CASING		—
TOP OF CONCRETE		GS
BOTTOM OF CONRETE	-	.5'
TOP OF GROUT	-	.5'
BOTTOM OF GROUT	-	5'
TOP OF WELL RISER	+	2.5'
TOP OF SCREEN	-	10'
BOTTOM OF SCREEN	-	20'
TOP OF PELTONITE SEAL	-	5'
BOTTOM OF PELTONITE SEAL	-	8'
TOP OF GRAVEL PACK	-	8'
BOTTOM OF GRAVEL PACK	-	21'
BOTTOM OF NATURAL CAVE-IN		N/A
TOP OF NATURAL CAVE-IN		N/A
TOP OF GROUNDWATER		
TOTAL DEPTH OF BOREHOLE	-	23'

WELL DIAGRAM



COMMENTS: BACKFILLED W/ HOLE PLUG FROM 23' TO 21'.

GEOLOGIST SIGNATURE: Scott Jandel

CONSTRUCTION MATERIALS

SERIAL NO. WI _____
PAGE 1 OF 1

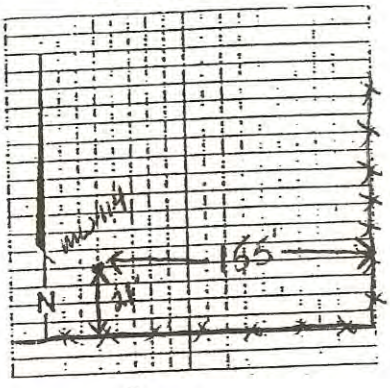
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: STEEL / ABOVE GROUND LOCKING CAP: (YES) NO
DIAMETER (IN): 4" PADLOCK NO. 2558 2321

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL: _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 12.5' - 2" #304
WELL SCREEN: 10' - 2" #304
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: (YES) (NO)
MATERIAL: Steel
NUMBER: 3

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 4½ (100 lb) BAGS (13')
TYPE/SIZE: SILICA SAND / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1½ (50 lb) BAGS (3')
SIZE: BENTONITE HOLE PLUG / NUGGETS

CONCRETE BACKFILL UTILIZED: YES (NO)
QUANTITY: ½ Foot
MIX: premix

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: _____
MIX: ¼ BAG BENTONITE GEL + 2 BAGS PORTLAND CEMENT

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE QUANTITY: —
TYPE: — TYPE: —
DEPTH INTERVAL OF LOSS — DEPTH INTERVAL OF LOSS —

COMMENTS: _____

MONITORING WELL INSTALLATION

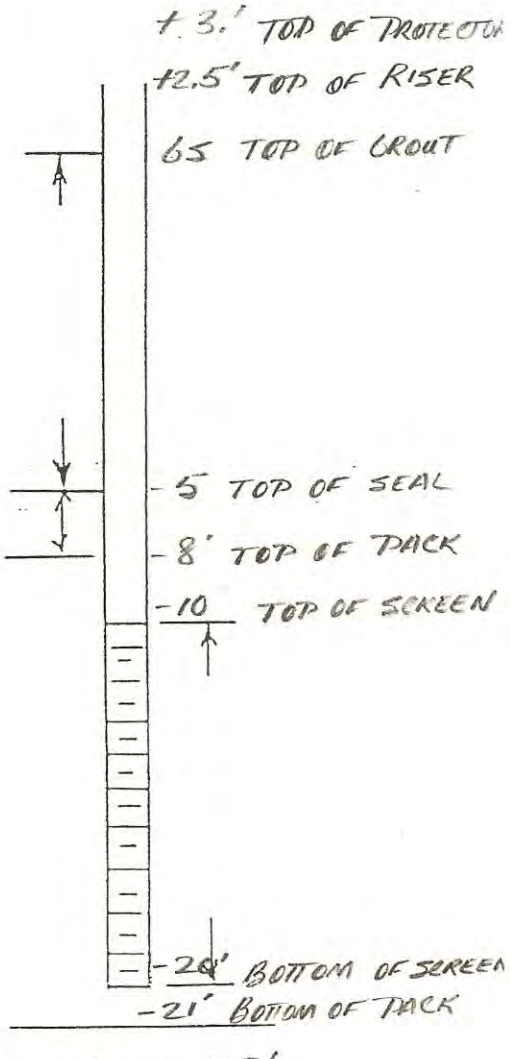
WELL NO. : UMW-115

PROJECT NAME: IP- CHAMPAIGN
PROJECT NO. : 122765 PHASE: 5336 TASK: 77
DATE/TIME: STARTED: 12·12·91 @ 1445 COMPLETED: 12·12·91 @
INSTALLATION CREW: T. CRANK, T. THOMAS, D. SMITH

DEPTHS IN REFERENCES TO GROUND SURFACE

ITEM	+/-	DEPTH FT.
TOP OF WELL PROTECTOR	+	3'
BOTTOM OF WELL PROTECTOR		
TOP OF PERMANENT BOREHOLE CASING		
BOTTOM OF PERMANENT BOREHOLE CASING		
TOP OF CONCRETE		
BOTTOM OF CONRETE		
TOP OF GROUT		6.5
BOTTOM OF GROUT	-	5
TOP OF WELL RISER	+	2.5'
TOP OF SCREEN	-	10'
BOTTOM OF SCREEN	-	20'
TOP OF PELTONITE SEAL	-	5'
BOTTOM OF PELTONITE SEAL	-	8
TOP OF GRAVEL PACK	-	8
BOTTOM OF GRAVEL PACK	-	21'
BOTTOM OF NATURAL CAVE-IN		N/A
TOP OF NATURAL CAVE-IN		N/A
TOP OF GROUNDWATER		
TOTAL DEPTH OF BOREHOLE	-	23'

WELL DIAGRAM



COMMENTS: BACKFILLED W/ HOLE PLUG FROM 23' TO 21'

GEOLOGIST SIGNATURE: Scott Jandles

CONSTRUCTION MATERIALS

SERIAL NO. WI _____
PAGE 1 OF 1

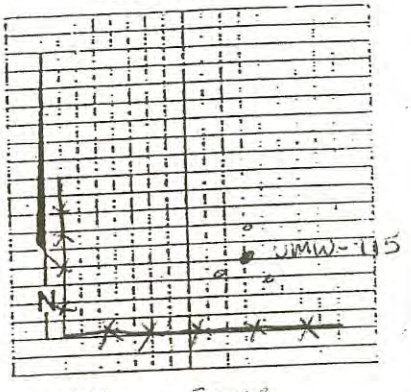
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: STEEL / ABOVE GROUND
LOCKING CAP: (YES) NO
DIAMETER (IN): 4"
PADLOCK NO. 2321

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 12.5' - 2" # 304 SS
WELL SCREEN: 10' - 2" # 304 SS
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: (YES) NO
MATERIAL: Steel
NUMBER: 3

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS

XXX - Fence
location - 78' East of Fence,
40' North of Fence.

GRAVEL PACK INSTALLED: YES NO
QUANTITY: 2 (100 lb.) BAGS (13')
TYPE/SIZE: SILICA SAND / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 4 (50 lb) BAGS (5')
SIZE: BENTONITE HOLE PLUG NUGGETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: _____
MIX: 1 BAG PREMIX

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 15 GAL
MIX: ¼ BAG BENTONITE GEL + 2 BAGS PORTLAND CEMENT

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE
QUANTITY: —
TYPE: —
TYPE: —
DEPTH INTERVAL OF LOSS —
DEPTH INTERVAL OF LOSS —

COMMENTS: _____

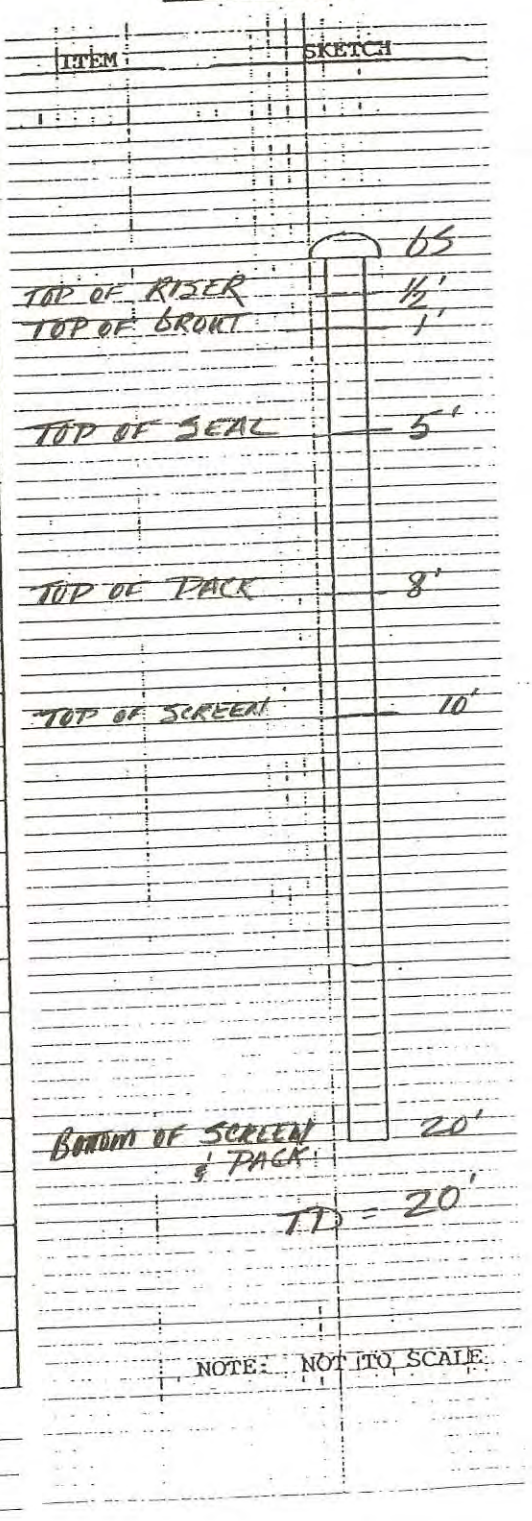
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE 1 OF 1

DATE/TIME STARTED 12.11.91 @ 0930 COMPLETED 12.11.91 @ 1030
PROJECT NO. 122765 PROJECT NAME ID - CHAMPAIGN
BORING/WELL NO. UMW-116 MAJOR TASK 5336 SUBTASK 77
U13-28
INSTALLATION CREW CRANK, THOMAS, JANDER GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING				
BOTTOM OF PROTECTIVE CASING				
TOP OF PERMANENT BOREHOLE CASING				
BOTTOM OF PERMANENT BOREHOLE CASING				
TOP OF CONCRETE	-	.75'		
BOTTOM OF CONCRETE	-	1'		
TOP OF GROUT	-	1'		
BOTTOM OF GROUT	-	5'		
TOP OF WELL RISER	-	.5'		
TOP OF SCREEN	-	10'		
BOTTOM OF SCREEN	-	20'		
TOP OF PELTONITE SEAL	-	5'		
BOTTOM OF PELTONITE SEAL	-	8'		
TOP OF GRAVEL PACK	-	8'		
BOTTOM OF GRAVEL PACK	-	20'		
TOP OF NATURAL CAVE-IN		N/A		
BOTTOM OF NATURAL CAVE-IN		N/A		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	-	20'		

WELL DIAGRAM



COMMENTS

CONSTRUCTION MATERIALS

SERIAL NO. WI_____
PAGE 1 OF 1

WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM FLUSH MOUNT LOCKING CAP: (YES) NO
DIAMETER (IN): 8" PADLOCK NO. [illegible] 2321

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL:_____
DIAMETER (IN):_____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 10' - 304 SS - 2"
WELL SCREEN: 10' - 304 SS - 2"
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL:_____
NUMBER:_____

ORIENTATION:

LEGEND:
O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 4½ (100 lb) BAGS (12')
TYPE/SIZE WIB - 40 SILICA SAND

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 1½ BAGS (50 lb.) (3')
SIZE BENTONITE HOLE PLUG (NUGGETS)

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: [illegible]
MIX:_____

GROUT BACKFILL UTILIZED: YES NO
QUANTITY: 12 GAL (4')
MIX: ½ BAG BENTONITE GEL + 2 BAGS PORTLAND CEMENT

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: None
TYPE:_____
DEPTH INTERVAL OF LOSS_____

QUANTITY:_____
TYPE:_____
DEPTH INTERVAL OF LOSS_____

COMMENTS:_____

MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE__OF__

DATE/TIME STARTED 12-5-90 @ 1530 COMPLETED _____

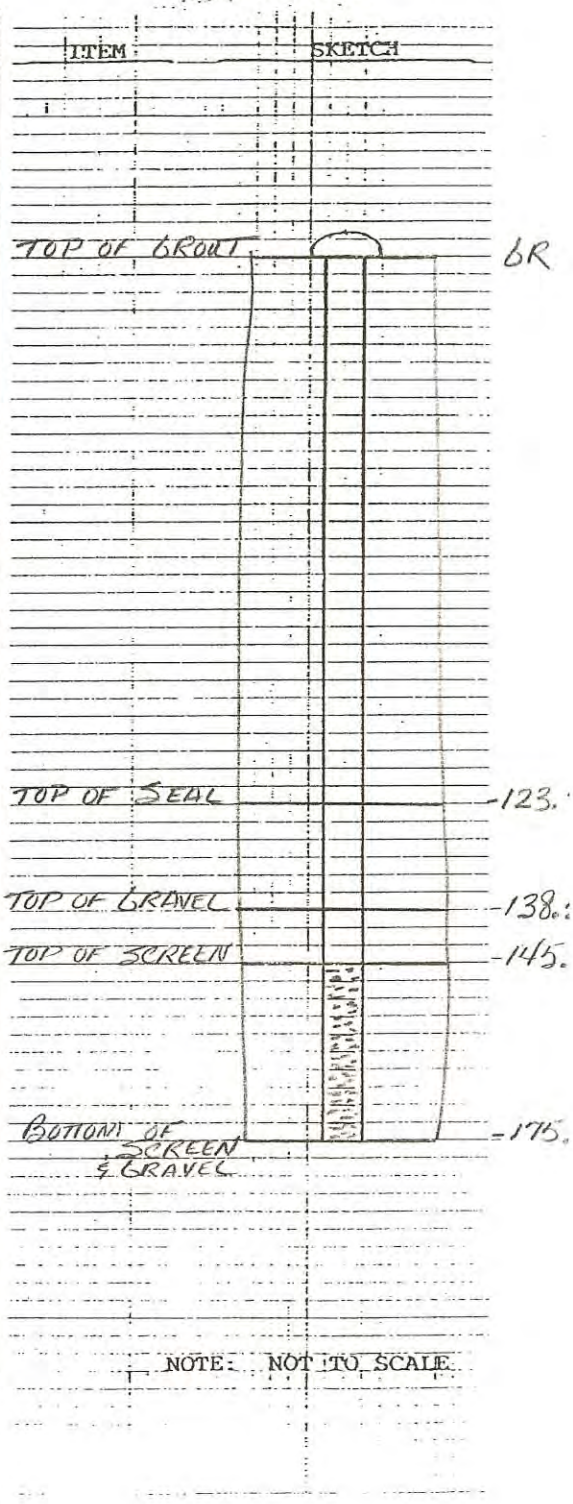
PROJECT NO. 122765 PROJECT NAME I. P. Champaign

BORING/WELL NO. UTB-11/UMW140I MAJOR TASK 5329 SUBTASK 77

INSTALLATION CREW HEBEL / TOENTE GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		GR		
BOTTOM OF PROTECTIVE CASING	-	.7'		
TOP OF PERMANENT BOREHOLE CASING	-	.7'		
BOTTOM OF PERMANENT BOREHOLE CASING	-	25.0'		
TOP OF CONCRETE		GR		
BOTTOM OF CONCRETE	-	1.5'		
TOP OF GROUT		GR		
BOTTOM OF GROUT	-	123'		
TOP OF WELL RISER	-	.4'		
TOP OF SCREEN	-	145'		
BOTTOM OF SCREEN	-	175'		
TOP OF ~~PELTONITE~~ BENTONITE SEAL	-	123'		
BOTTOM OF ~~PELTONITE~~ BENTONITE SEAL	-	138.5'		
TOP OF GRAVEL PACK	-	138.5'		
BOTTOM OF GRAVEL PACK	-	175'		
TOP OF NATURAL CAVE-IN		N/A		
BOTTOM OF NATURAL CAVE-IN		N/A		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	-	175.0'		

WELL DIAGRAM



COMMENTS GR = GRADE

CONSTRUCTION MATERIALS

SERIAL NO. WI_____
PAGE__OF__

WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM FLUSH MOUNT LOCKING CAP: (YES) NO
DIAMETER (IN): _____ PADLOCK NO. 2532

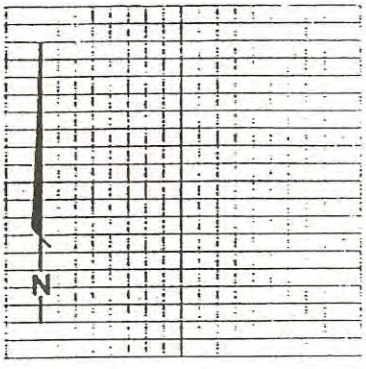
PERMANENT BOREHOLE CASING INSTALLED: (YES) NO
MATERIAL SEE CASING LOG
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 14 - 2" x 10', 1 - 2" x 5' = 145.0' PVC
WELL SCREEN: 6 - 2" x 5' = 30' PVC
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: _____
NUMBER: _____

LEGEND:
O MONITORING WELL
● BUMPER POSTS

ORIENTATION:



GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 10 - 50 lb BAGS
TYPE/SIZE PEA GRAVEL
BENTONITE
~~PELTONITE~~ SEAL INSTALLED: (YES) NO
QUANTITY: ½ BAG GEL / 30 GAL H_2O
SIZE —

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 4 - 60 lb. BAGS
MIX: PREMIX

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 1½ BAGS GEL / 8 BAGS CEMENT / 90 GAL. H_2O
MIX: 150 GAL.

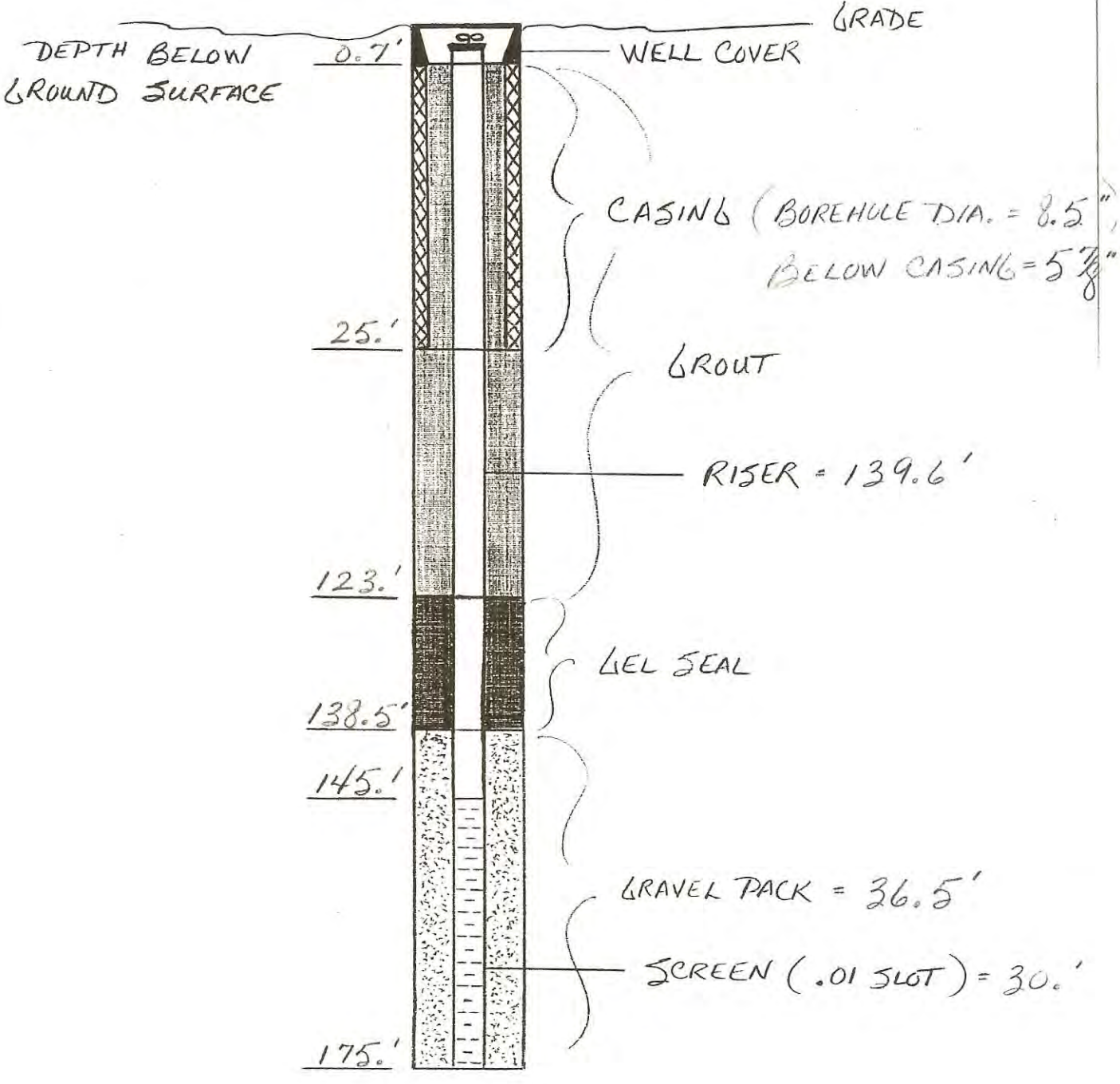
FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: _____ QUANTITY: _____
TYPE: _____ TYPE: _____
DEPTH INTERVAL OF LOSS _____ DEPTH INTERVAL OF LOSS _____

COMMENTS: _____

PROJECT # 122765 DRILLER HEBEL

MONITOR WELL # UMW-401 INSTALLED 12-4-90



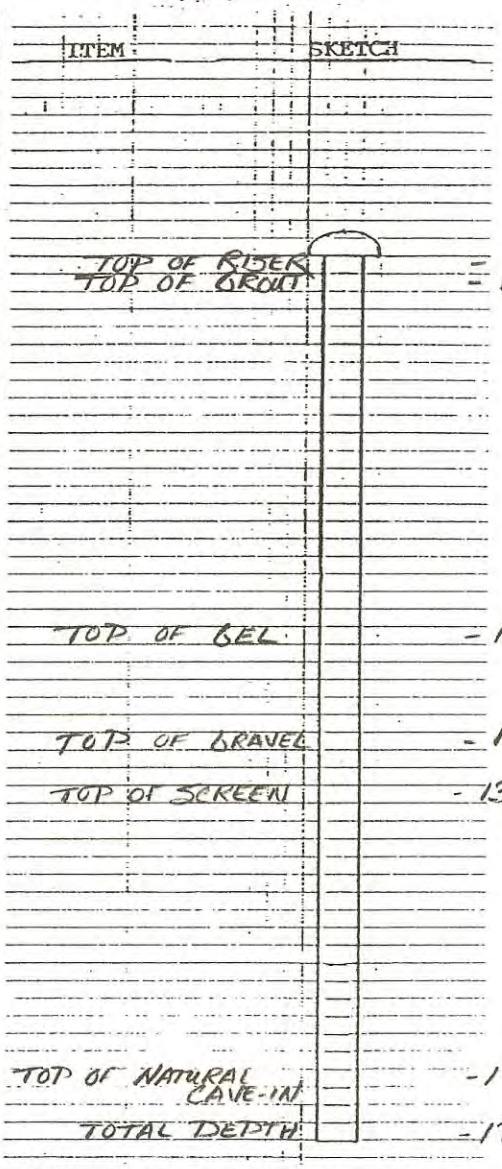
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE__OF__

DATE/TIME STARTED 12-3-90/1345 COMPLETED 12-3-90/1630
PROJECT NO. 122765 PROJECT NAME I.P. Champaign
BORING/WELL NO. UTB-12/UMW402 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW HEBEL/TOEDTE GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		GR		
BOTTOM OF PROTECTIVE CASING	–	.7'		
TOP OF PERMANENT BOREHOLE CASING	–	.5'		
BOTTOM OF PERMANENT BOREHOLE CASING	–	30.'		
TOP OF CONCRETE		GR		
BOTTOM OF CONCRETE	-	1.0		
TOP OF GROUT	-	1.0'		
BOTTOM OF GROUT	-	129.'		
TOP OF WELL RISER	-	.4'		
TOP OF SCREEN	-	139.4'		
BOTTOM OF SCREEN	-	170.0'		
TOP OF ~~PELLETONITE~~ BENTONITE SEAL	-	129.'		
BOTTOM OF ~~PELLETONITE~~ BENTONITE SEAL	-	134.'		
TOP OF GRAVEL PACK	-	134.'		
BOTTOM OF GRAVEL PACK	-	170.'		
TOP OF NATURAL CAVE-IN	-	170.'		
BOTTOM OF NATURAL CAVE-IN	-	174.5'		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE AFTER REEMING *	-	174.5'		

WELL DIAGRAM



NOTE: NOT TO SCALE

COMMENTS * BOREHOLE SQUEEZED OFF DURING FIRST WELL INSTALLATION ATTEMPT. REEMED OUT HOLE BETWEEN 30' & 175'. REINSTALLED WELL.

CONSTRUCTION MATERIALS

SERIAL NO. WI
PAGE __ OF __

WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM LOCKING CAP: (YES) NO
DIAMETER (IN): PADLOCK NO. 2532

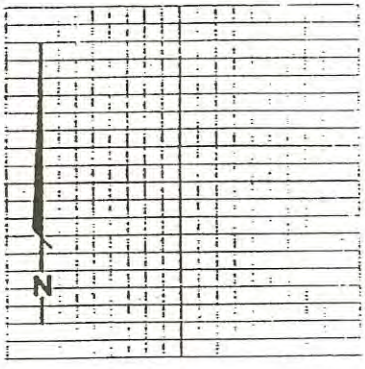
PERMANENT BOREHOLE CASING INSTALLED: (YES) NO
MATERIAL: PVC
DIAMETER (IN): 6

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 14 - 2" x 10.1 = 141.4' PVC
WELL SCREEN: 6 - 2" x 5.1 = 30.6' PVC
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL:
NUMBER:

LEGEND:
O MONITORING WELL
● BUMPER POSTS

ORIENTATION:



GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 9 BAGS - 50lb.
TYPE/SIZE: PEA GRAVEL

BENTONITE
~~PELTONITE~~ SEAL INSTALLED: (YES) NO
QUANTITY: 25 lb. BENT. GEL / 30 GAL. WATER
SIZE

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY:
MIX:

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 150 GAL.
MIX: 1.5 BAGS GEL / 8 BAGS CEMENT / 90 GAL. WATER

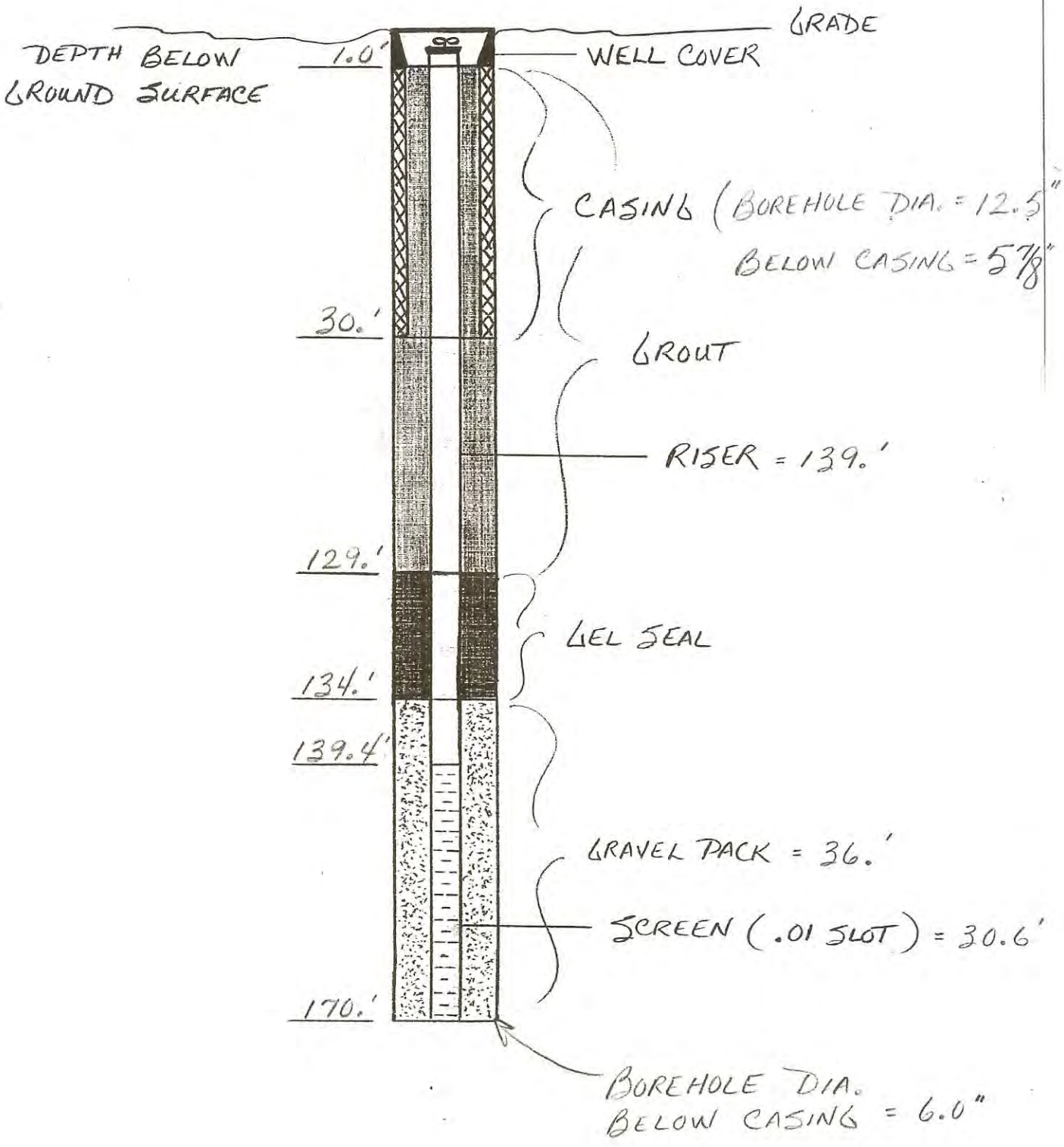
FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: QUANTITY:
TYPE: TYPE:
DEPTH INTERVAL OF LOSS DEPTH INTERVAL OF LOSS

COMMENTS:

PROJECT # 122765 DRILLER HEBEL

MONITOR WELL # UMW-402 INSTALLED 12-3-90



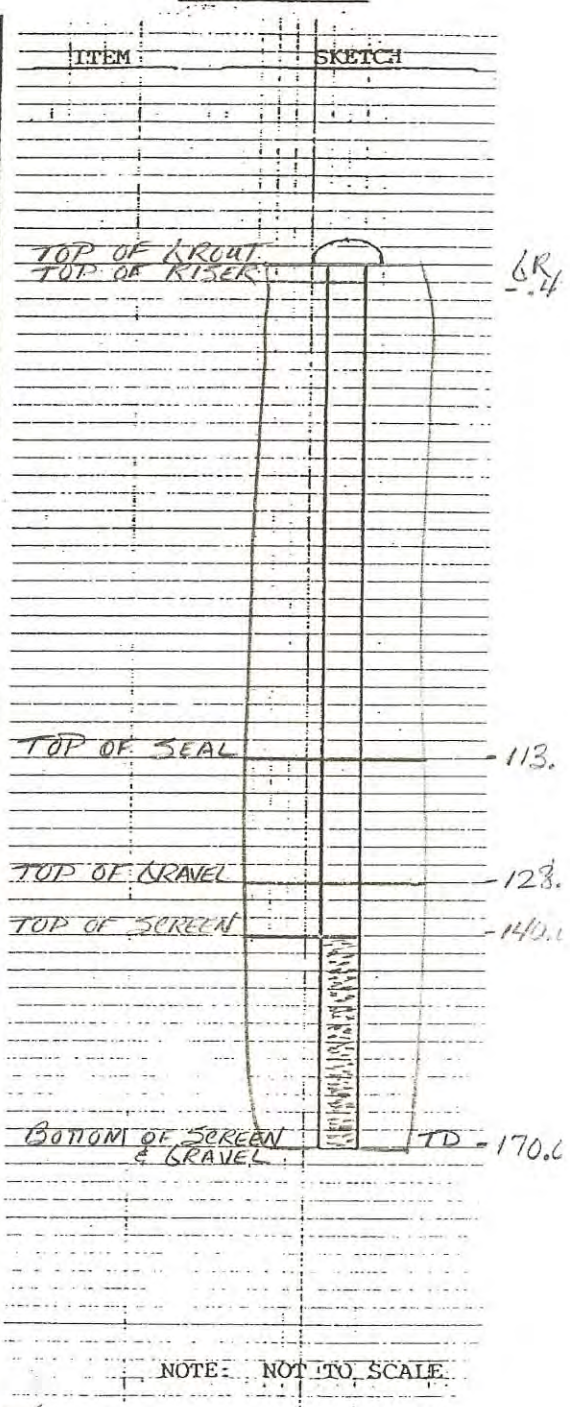
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE__OF__

DATE/TIME STARTED 12-7-90@1330 COMPLETED 12-7-90 @ 1600
PROJECT NO. 122765 PROJECT NAME I.P. Champaign
BORING/WELL NO. UTB-13/UMW403 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW HEBEL / TOEDTE GEOLOGIST S. JANDER

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	DEPTH FT.	±	DEPTH FT.
TOP OF PROTECTIVE CASING		GR		
BOTTOM OF PROTECTIVE CASING	-	.7	'	
TOP OF PERMANENT BOREHOLE CASING	-	.7	'	
BOTTOM OF PERMANENT BOREHOLE CASING	-	28.	'	
TOP OF CONCRETE		GR		
BOTTOM OF CONCRETE	-	1.5	'	
TOP OF GROUT		GR		
BOTTOM OF GROUT	-	113.	'	
TOP OF WELL RISER	-	.4	'	
TOP OF SCREEN	-	140.	'	
BOTTOM OF SCREEN	-	170.	'	
TOP OF ~~PELTONITE~~ BENTONITE SEAL	-	113.	'	
BOTTOM OF ~~PELTONITE~~ BENTONITE SEAL	-	128.	'	
TOP OF GRAVEL PACK	-	128.	'	
BOTTOM OF GRAVEL PACK	-	170.	'	
TOP OF NATURAL CAVE-IN		N/A		
BOTTOM OF NATURAL CAVE-IN		N/A		
TOP OF GROUNDWATER				
TOTAL DEPTH OF BOREHOLE	-	170.	'	

WELL DIAGRAM



COMMENTS ASSEMBLED: 30' STAINLESS SCREEN
90' " RISER
50' PVC RISER
170.0' WELL MAT.

CONSTRUCTION MATERIALS

SERIAL NO. WI
PAGE __ OF __

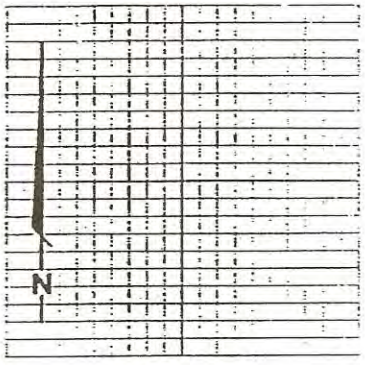
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM FLUSH MOUNT LOCKING CAP: (YES) NO
DIAMETER (IN): _____ PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: (YES) NO
MATERIAL: SEE CASING LOG
DIAMETER (IN): 6"

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 90' - STAINLESS, 50' - PVC
WELL SCREEN: 30' - STAINLESS
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: _____
NUMBER: _____

ORIENTATION:



LEGEND:

O MONITORING WELL
● BUMPER POSTS

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5 - 50 lb. BAGS / 2 - 100 lb. BAGS
TYPE/SIZE: PEA GRAVEL / WB - 40

BENTONITE ~~PELTONITE~~ SEAL INSTALLED: (YES) NO
QUANTITY: 1/3 BAG GEL / 30 GAL. H_2O
SIZE: —

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 4 - 60 lb. BAGS
MIX: PREMIX

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 2/3 BAG GEL / 4 BAGS 94 lb. BAGS CEMENT / 60 GAL. H_2O
MIX: _____

FLUID INTRODUCTION

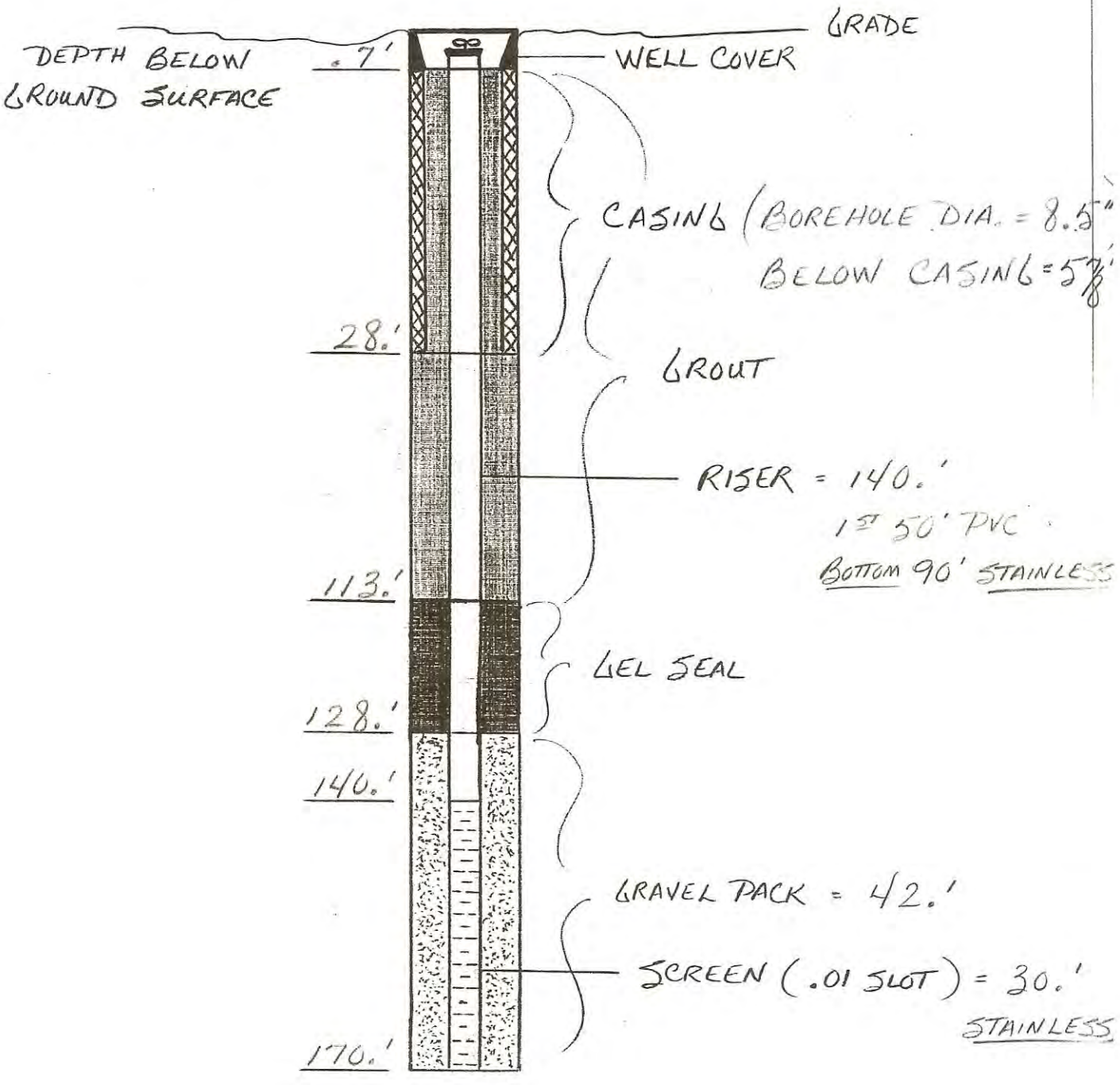
TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:

QUANTITY: _____ QUANTITY: _____
TYPE: _____ TYPE: _____
DEPTH INTERVAL OF LOSS _____ DEPTH INTERVAL OF LOSS _____

COMMENTS: _____

PROJECT # 122765 DRILLER HEBEL

MONITOR WELL # UMW-403 INSTALLED 12-7-90



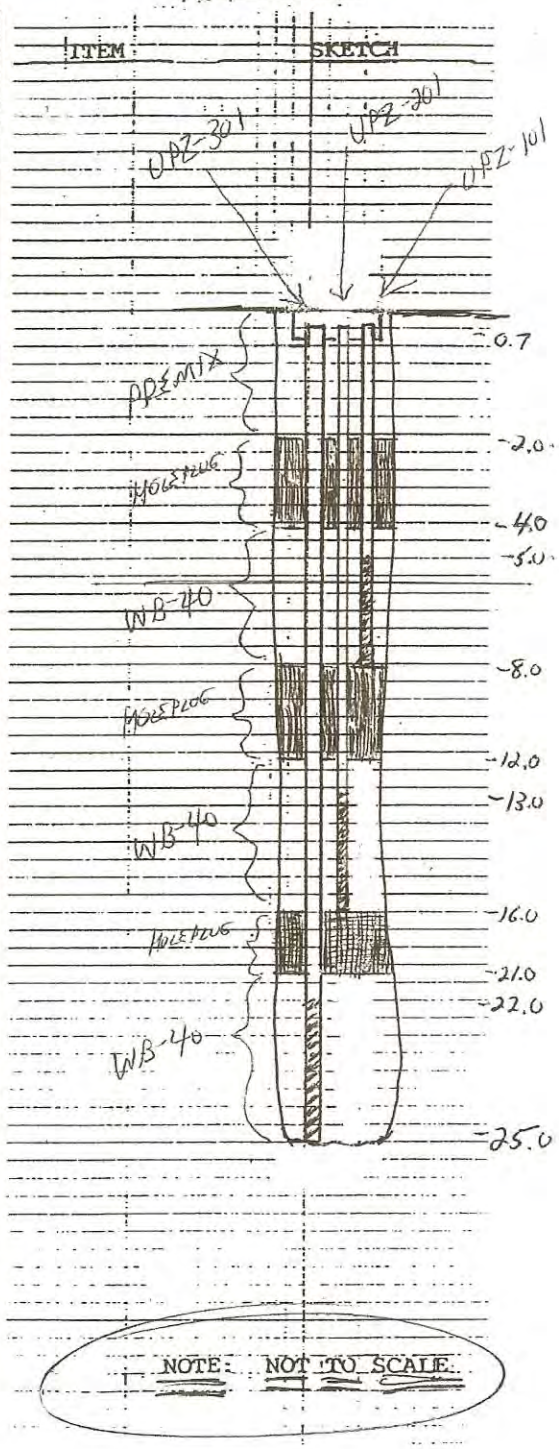
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE 1 OF 2

DATE/TIME STARTED 12-6-90; 1100 COMPLETED 12-6-90; 1145
PROJECT NO. 122765 PROJECT NAME IP-CHAMPAIGN, ILL.-PHASE II-A
BORING/WELL NO. UTB-14A / UPZ-101 UPZ-201 UPZ-301 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW T. BADILLER / M. FARRIS GEOLOGIST M. JEFFERIES

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	UPZ-101	UPZ-201	UPZ-301
TOP OF PROTECTIVE CASING PROTECTOR	–	0.0	0.0	0.0
BOTTOM OF PROTECTIVE CASING PROTECTOR	–	0.7	0.7	0.7
TOP OF PERMANENT BOREHOLE CASING N/A				
BOTTOM OF PERMANENT BOREHOLE CASING N/A				
TOP OF CONCRETE	–			
BOTTOM OF CONCRETE	–			
TOP OF GROUT N/A				
BOTTOM OF GROUT N/A				
TOP OF WELL RISER	–			
TOP OF SCREEN	–	5.0	13.0	22.0
BOTTOM OF SCREEN	–	8.0	16.0	25.0
TOP OF PELTONITE SEAL	–	2.0	8.0	16.0
BOTTOM OF PELTONITE SEAL	–	4.0	12.0	21.0
TOP OF GRAVEL PACK	–	4.0	12.0	21.0
BOTTOM OF GRAVEL PACK	–	8.0	16.0	25.0
TOP OF NATURAL CAVE-IN N/A				
BOTTOM OF NATURAL CAVE-IN N/A				
TOP OF GROUNDWATER	–	6.0		
TOTAL DEPTH OF BOREHOLE				25.0

WELL DIAGRAM



COMMENTS

SERIAL NO. WI
PAGE 2 OF 2

CONSTRUCTION MATERIALS

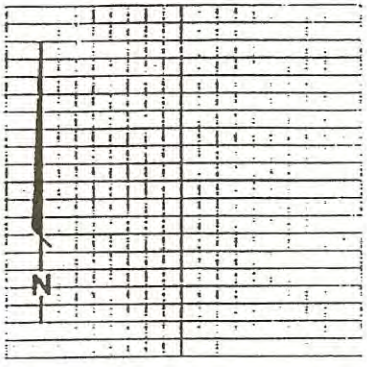
WELL PROTECTOR INSTALLED: YES NO
MATERIAL: _____ LOCKING CAP: YES NO
DIAMETER (IN): _____ PADLOCK NO. _____

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL: N/A
DIAMETER (IN): N/A

TOTAL MONITORING WELL MATERIALS/LENGTH
WELL RISER: PVC / 39'
WELL SCREEN: PVC / 9' (INCL CAP.)
WELL SCREEN SLOT SIZE: 0.01"

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: N/A
NUMBER: N/A

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS

TOTAL GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 5 x 94# = 470 #
TYPE/SIZE: WB-40 SAND

TOTAL PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 5.5 x 50 # = 275 #
SIZE: BENTONE CHIPS (HOLE PLUG)

CONCRETE BACKFILL UTILIZED: (YES) NO FOR PROTECTOR
QUANTITY: _____
MIX: _____

GROUT BACKFILL UTILIZED: YES (NO)
QUANTITY: N/A
MIX: N/A

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE
TYPE: _____
DEPTH INTERVAL OF LOSS: _____

QUANTITY: NONE
TYPE: _____
DEPTH INTERVAL OF LOSS: _____

COMMENTS: _____

MONITORING WELL INSTALLATION

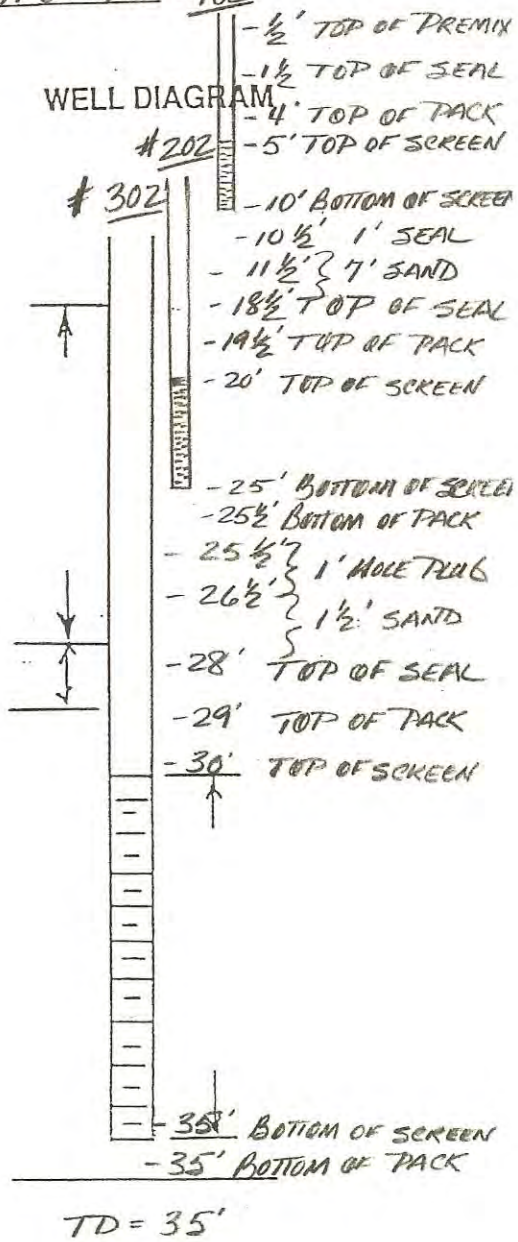
PROJECT NAME: IP-CHAMPAIGN
PROJECT NO. : 122765 PHASE: 5336 TASK: 77
DATE/TIME: STARTED: 12-13-91 @ 1030 COMPLETED: 12-13-91 @ 1615
INSTALLATION CREW: T. CRANK, T. THOMAS, S. JANDER

WELL NO. : UPZ-102
-202
-302

DEPTHS IN REFERENCES TO GROUND SURFACE

ITEM	+/-	DEPTH FT.
TOP OF WELL PROTECTOR		
BOTTOM OF WELL PROTECTOR		
TOP OF PERMANENT BOREHOLE CASING		
BOTTOM OF PERMANENT BOREHOLE CASING		
TOP OF CONCRETE		
BOTTOM OF CONRETE		
TOP OF GROUT		
BOTTOM OF GROUT		
TOP OF WELL RISER		
TOP OF SCREEN		
BOTTOM OF SCREEN		
TOP OF PELTONITE SEAL		
BOTTOM OF PELTONITE SEAL		
TOP OF GRAVEL PACK		
BOTTOM OF GRAVEL PACK		
BOTTOM OF NATURAL CAVE-IN		
TOP OF NATURAL CAVE-IN		
TOP OF GROUNDWATER		
TOTAL DEPTH OF BOREHOLE		

WELL DIAGRAM



COMMENTS: _____

GEOLOGIST SIGNATURE: Scott Jander

CONSTRUCTION MATERIALS

SERIAL NO. WI _____
PAGE 1 OF 1

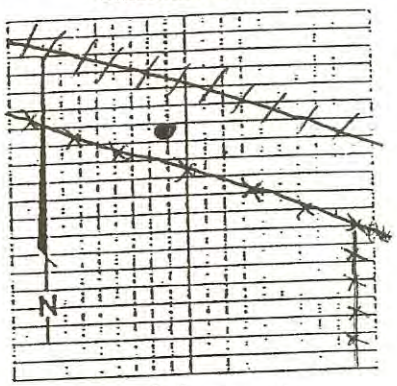
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM FLUSH MOUNT LOCKING CAP: YES (NO)
DIAMETER (IN): 8" PADLOCK NO. 2321

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL: _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 55' - 1" PVC
WELL SCREEN: 15' - 1" PVC
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: _____
NUMBER: _____

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS

+++++ - RR Tracks.
××× - Fence
● - UPZ-102, 202, 302 location.
location - 9' North of Fence.
140' from NW corner of Fencing.

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 9 (100 lb.) BAGS
TYPE/SIZE: SILICA SAND / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 3 (50 lb.) BAGS
SIZE: NUGGETS (HOLE PLUG)

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 1 (80 lb) BAG
MIX: PREMIX

GROUT BACKFILL UTILIZED: YES (NO)
QUANTITY: _____
MIX: _____

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE QUANTITY: —
TYPE: — TYPE: —
DEPTH INTERVAL OF LOSS — DEPTH INTERVAL OF LOSS —

COMMENTS: _____

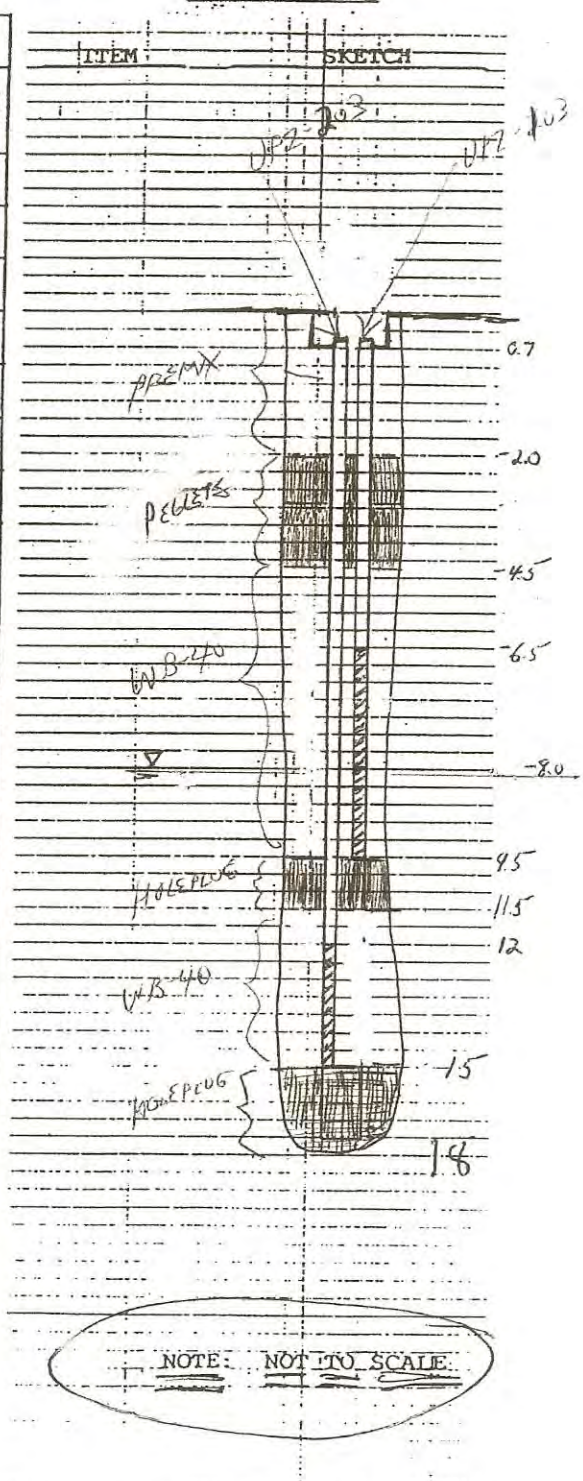
MONITORING WELL INSTALLATION

SERIAL NO. WI_____
PAGE 1 OF 2

DATE/TIME STARTED 12-6-90; 1630 COMPLETED 12-6-90; 1700
PROJECT NO. 122765 PROJECT NAME IP-CHAMPAIGN, ILL.-PHASE II-A
BORING/WELL NO. UTB-16/UPZ 103,203 MAJOR TASK 5329 SUBTASK 77
INSTALLATION CREW J. BARKER / MARC HARRIS GEOLOGIST M. JEFFERIES -

DEPTHS IN REFERENCE TO GROUND SURFACE				
ITEM	±	UPZ-103	UPZ-203	DEPTH FT.
TOP OF PROTECTIVE CASING PROTECTOR	–	0.0	0.0	
BOTTOM OF PROTECTIVE CASING PROTECTOR	–	0.7	0.7	
TOP OF PERMANENT BOREHOLE CASING	N/A			
BOTTOM OF PERMANENT BOREHOLE CASING	N/A			
TOP OF CONCRETE		0.0		
BOTTOM OF CONCRETE	–	2.0		
TOP OF GROUT N/A				
BOTTOM OF GROUT N/A				
TOP OF WELL RISER				
TOP OF SCREEN	–	6.5	12.0	
BOTTOM OF SCREEN	–	9.5	15.0	
TOP OF PELTONITE SEAL	–	2.0	9.5	
BOTTOM OF PELTONITE SEAL	–	4.5	11.5	
TOP OF GRAVEL PACK	–	4.5	11.5	
BOTTOM OF GRAVEL PACK	–	9.5	15.0	
TOP OF NATURAL CAVE-IN NONE	N/A			
BOTTOM OF NATURAL CAVE-IN NONE	N/A			
TOP OF GROUNDWATER FIRST ENCOUNTER DURING DRILLING.	≈	8'		
TOTAL DEPTH OF BOREHOLE	–	18.0		

WELL DIAGRAM



COMMENTS LOWER 3' BACKFILLED WITH HOLE PLUG

CONSTRUCTION MATERIALS

SERIAL NO. WI
PAGE 2 OF 2

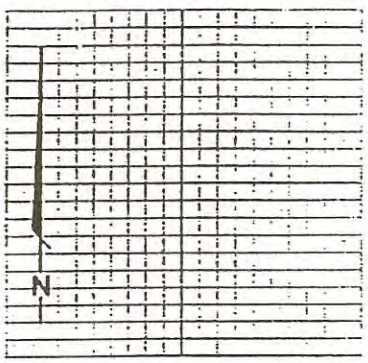
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: ALUMINUM ALLOY LOCKING CAP: (YES) NO
DIAMETER (IN): 4" PADLOCK NO. 2532

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL: N/A
DIAMETER (IN): N/A

TOTAL X MONITORING WELL MATERIALS/LENGTH
WELL RISER: PVC
WELL SCREEN: PVC / 6'
WELL SCREEN SLOT SIZE: 0.01"

BUMPER POSTS INSTALLED: YES (NO)
MATERIAL: N/A
NUMBER: N/A

ORIENTATION:



LEGEND:

O MONITORING WELL
● BUMPER POSTS

TOTAL GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 3.5 x 94# = 330 #
TYPE/SIZE: WB-40 SAND

TOTAL PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 3.75 x 50# = 190 #
SIZE: BENTONITE CHIPS (HOLE PLUG)

CONCRETE BACKFILL UTILIZED: (YES) NO FOR PROTECTOR
QUANTITY: 2 x 80# = 160 #
MIX: PREMIX + H2O

GROUT BACKFILL UTILIZED: YES (NO) BOT LINER 3' BACKFILLED W/ HOLEPLUG
QUANTITY: 2.5 x 50# = 125 #
MIX: BENTONITE CHIPS

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE QUANTITY: NONE
TYPE: TYPE:
DEPTH INTERVAL OF LOSS DEPTH INTERVAL OF LOSS

COMMENTS:

MONITORING WELL INSTALLATION

PROJECT NAME: IP - CHAMPAIGN
PROJECT NO. : 122765
DATE/TIME: STARTED: 12.14.91 @ 1545 COMPLETED: 12.14.91 @ 1730
INSTALLATION CREW: T. CRANK, T. THOMAS, D. SMITH

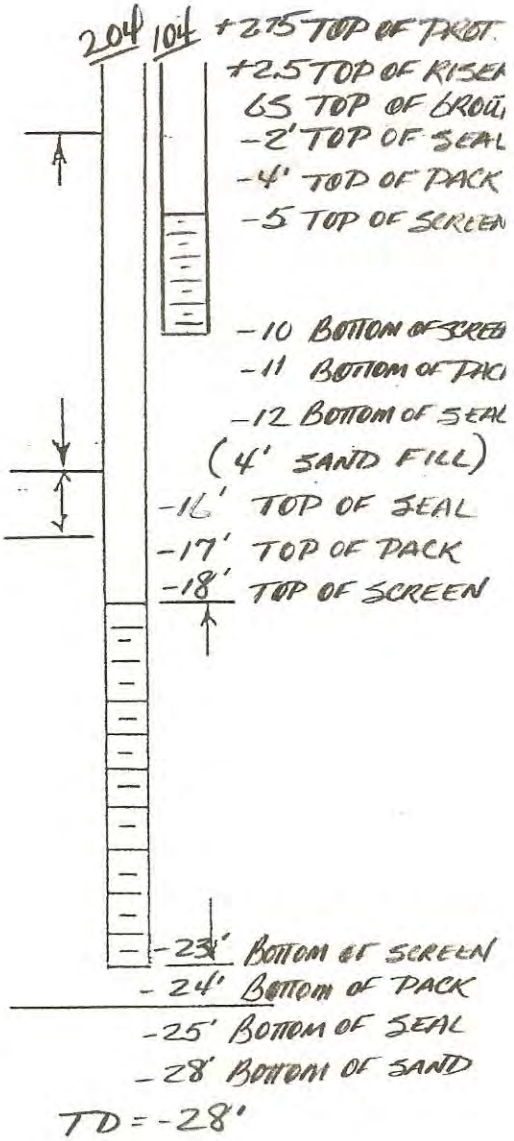
WELL NO. : UPZ - 104
- 204

PHASE: 533 TASK: 77

DEPTHS IN REFERENCES TO GROUND SURFACE

ITEM	+/-	DEPTH FT.
TOP OF WELL PROTECTOR		
BOTTOM OF WELL PROTECTOR		
TOP OF PERMANENT BOREHOLE CASING		
BOTTOM OF PERMANENT BOREHOLE CASING		
TOP OF CONCRETE		
BOTTOM OF CONRETE		
TOP OF GROUT		
BOTTOM OF GROUT		
TOP OF WELL RISER		
TOP OF SCREEN		
BOTTOM OF SCREEN		
TOP OF PELTONITE SEAL		
BOTTOM OF PELTONITE SEAL		
TOP OF GRAVEL PACK		
BOTTOM OF GRAVEL PACK		
BOTTOM OF NATURAL CAVE-IN		
TOP OF NATURAL CAVE-IN		
TOP OF GROUNDWATER		
TOTAL DEPTH OF BOREHOLE		

WELL DIAGRAM



COMMENTS: _____

GEOLOGIST SIGNATURE: Scott Jander

CONSTRUCTION MATERIALS

SERIAL NO. WI _____
PAGE 1 OF 1

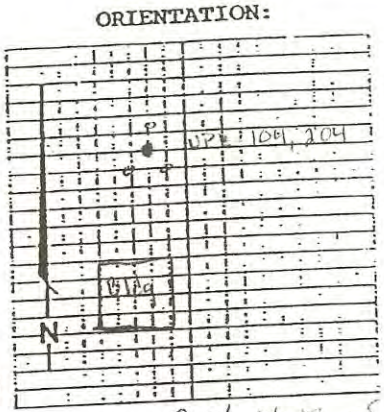
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: STEEL / ABOVE GROUND LOCKING CAP: YES (NO)
DIAMETER (IN): 4" PADLOCK NO. 2321

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 23' - 1" PVC
WELL SCREEN: 10' - 1" PVC
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: (YES) NO
MATERIAL: STEEL
NUMBER: 3

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS

location: 80' North of Bldg. 116' West of NE Bldg Corner.

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 8 (100 lb.) BAGS | 2 (100 lb.) BAGS
TYPE/SIZE: SILICA SAND / WB-40 | SILICA SAND / WB-30

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 3 (50 lb.) BAGS
SIZE: HOLE PLUG NUGGETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: .5'
MIX: PREMIX

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 2'
MIX: ¼ BAG BENTONITE GEL + 2 BAGS PORTLAND CEMENT

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: None QUANTITY: —
TYPE: — TYPE: —
DEPTH INTERVAL OF LOSS — DEPTH INTERVAL OF LOSS —

COMMENTS: _____

MONITORING WELL INSTALLATION

PROJECT NAME: TD-CHAMPAIGN
PROJECT NO. : 122765
DATE/TIME: STARTED: 12-15-91 @ 0930 COMPLETED: 12-15-91 @ 1115
INSTALLATION CREW: T. CRANK, T. THOMAS, S. JANDER

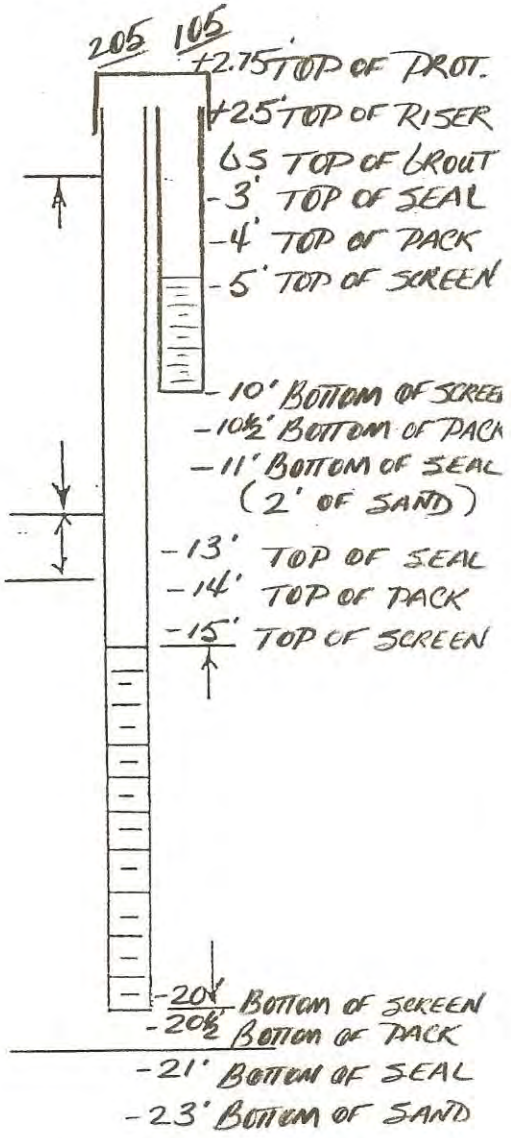
WELL NO. : UPZ-105
-205

PHASE: 5336 TASK: 77

DEPTHS IN REFERENCES TO GROUND SURFACE

ITEM	+/-	DEPTH FT.
TOP OF WELL PROTECTOR		
BOTTOM OF WELL PROTECTOR		
TOP OF PERMANENT BOREHOLE CASING		
BOTTOM OF PERMANENT BOREHOLE CASING		
TOP OF CONCRETE		
BOTTOM OF CONRETE		
TOP OF GROUT		
BOTTOM OF GROUT		
TOP OF WELL RISER		
TOP OF SCREEN		
BOTTOM OF SCREEN		
TOP OF PELTONITE SEAL		
BOTTOM OF PELTONITE SEAL		
TOP OF GRAVEL PACK		
BOTTOM OF GRAVEL PACK		
BOTTOM OF NATURAL CAVE-IN		
TOP OF NATURAL CAVE-IN		
TOP OF GROUNDWATER		
TOTAL DEPTH OF BOREHOLE		

WELL DIAGRAM



TD = -23'

COMMENTS: _____

GEOLOGIST SIGNATURE: Scott Jander

CONSTRUCTION MATERIALS

SERIAL NO. WI _____
PAGE 1 OF 1

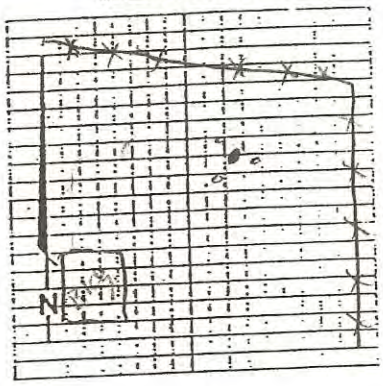
WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: STEEL / ABOVE GROUND LOCKING CAP: YES (NO)
DIAMETER (IN): 4" PADLOCK NO. 2321

PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 20' - 1" PVC
WELL SCREEN: 10' - 1" PVC
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: (YES) NO
MATERIAL: Steel
NUMBER: 3

ORIENTATION:



LEGEND:
O MONITORING WELL
● BUMPER POSTS

XXX - Fence
• - piezometer location
location- 150' west of Fence.
80' South of Fence

GRAVEL PACK INSTALLED: (YES) NO
QUANTITY: 7 (100lb.) BAGS
TYPE/SIZE SILICA SAND / 20-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 2 (50lb.) BAGS
SIZE HOLE PLUG NUGGETS

CONCRETE BACKFILL UTILIZED: (YES) NO
QUANTITY: 1/2 Foot after Grout Settled.
MIX: Premix.

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 2.5' to 3'
MIX: Bentowite & cement.

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE QUANTITY: —
TYPE: — TYPE: —
DEPTH INTERVAL OF LOSS — DEPTH INTERVAL OF LOSS —

COMMENTS: _____

MONITORING WELL INSTALLATION

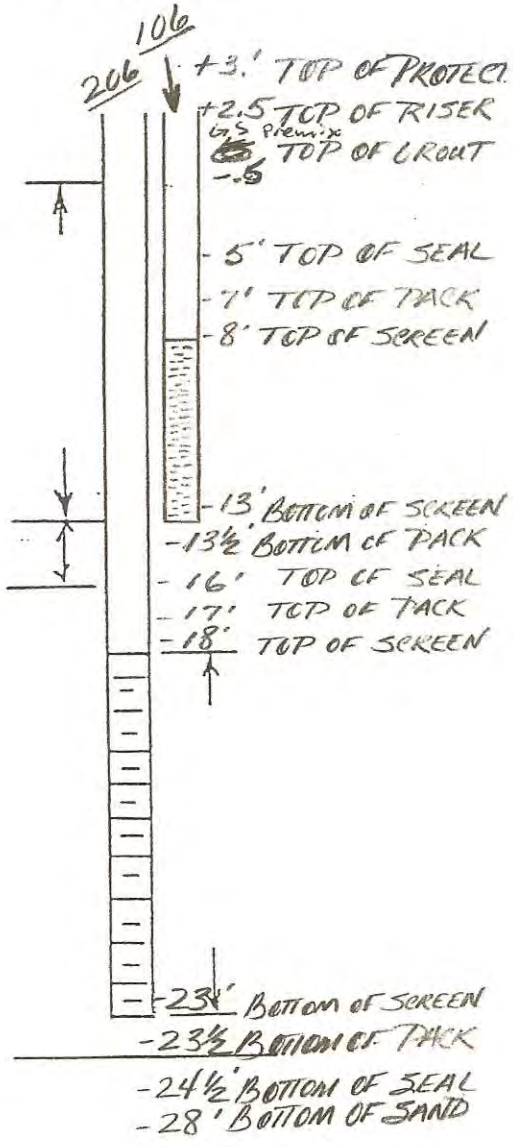
WELL NO. : UPZ-106
-206

PROJECT NAME: IP - CHAMPAIGN
PROJECT NO. : 122765 PHASE: 5336 TASK: 77
DATE/TIME: STARTED: 12.14.91@0945 COMPLETED: 12.14.91 1115
INSTALLATION CREW: Scott Sander, Tim Crank, Terry Thomas

DEPTHS IN REFERENCES TO GROUND SURFACE

ITEM	+/-	DEPTH FT.
TOP OF WELL PROTECTOR		
BOTTOM OF WELL PROTECTOR		
TOP OF PERMANENT BOREHOLE CASING		—
BOTTOM OF PERMANENT BOREHOLE CASING		—
TOP OF CONCRETE		G.S
BOTTOM OF CONRETE	-	.5'
TOP OF GROUT	-	.5'
BOTTOM OF GROUT	-	5.0'
TOP OF WELL RISER		
TOP OF SCREEN		
BOTTOM OF SCREEN		
TOP OF PELTONITE SEAL		
BOTTOM OF PELTONITE SEAL		
TOP OF GRAVEL PACK		
BOTTOM OF GRAVEL PACK		
BOTTOM OF NATURAL CAVE-IN		—
TOP OF NATURAL CAVE-IN		—
TOP OF GROUNDWATER		
TOTAL DEPTH OF BOREHOLE	-	28'

WELL DIAGRAM



COMMENTS: _____

GEOLOGIST SIGNATURE: Scott Sander

CONSTRUCTION MATERIALS

SERIAL NO. WI _____
PAGE 1 OF 1

WELL PROTECTOR INSTALLED: (YES) NO
MATERIAL: STEEL / ABOVE GROUND LOCKING CAP: YES (NO)
DIAMETER (IN): 4" PADLOCK NO. 2321

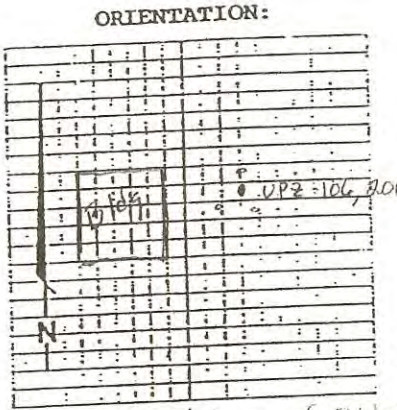
PERMANENT BOREHOLE CASING INSTALLED: YES (NO)
MATERIAL _____
DIAMETER (IN): _____

MONITORING WELL MATERIALS/LENGTH
WELL RISER: 26' - 1" PVC
WELL SCREEN: 10' - 1" PVC
WELL SCREEN SLOT SIZE: .010

BUMPER POSTS INSTALLED: (YES) NO
MATERIAL: Steel
NUMBER: 3

LEGEND:
O MONITORING WELL
● BUMPER POSTS

ORIENTATION:



location: 10' South of Bldg Corner (NE 25' East of Bldg.

GRAVEL PACK INSTALLED: YES NO
QUANTITY: 6 (100 lb.) BAGS
TYPE/SIZE: SILICA SAND / WB-40

PELTONITE SEAL INSTALLED: (YES) NO
QUANTITY: 3 (50 lb.) BAGS
SIZE: HOLE PLUG NUGGETS

CONCRETE BACKFILL UTILIZED: (YES) (NO)
QUANTITY: 1/2 Foot
MIX: Premix.

GROUT BACKFILL UTILIZED: (YES) NO
QUANTITY: 4.5'
MIX: Cement & powdered Bentonite.

FLUID INTRODUCTION

TOTAL FLUIDS INTRODUCED DURING WELL CONSTRUCTION:
QUANTITY: NONE QUANTITY: —
TYPE: — TYPE: —
DEPTH INTERVAL OF LOSS _____ DEPTH INTERVAL OF LOSS —

COMMENTS: _____

APPENDIX F

Phase II Groundwater Analytical Data Sheets

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	19-DEC-90	A220595
	Complete 11-JAN-91	PO Number PO072488
	Printed 12-JAN-91	Sampled 17-DEC-90 12:45

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE NO.: UMW-101-1290 (GRAB)
SAMPLE LOCATION:: UMW-101

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 20-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 21-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.07	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: J. GRIFFIN Analysis Date: 20-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 26-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	0.08	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN Analysis Date: 29-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	2.0	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.04	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	140	50	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	840	50	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 26-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	1.8	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.5	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	0.86	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	0.79	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	1200	0.02	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	0.65	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	20.	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	1.2	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	2.8	0.020	mg/L

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 09-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER Analysis Date: 10-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 21-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 21-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	0.058	0.050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 20-DEC-90 Instrument: GC/MS VOA Test: O510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	* 1100	50	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	* 790	50	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	* 470	50	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	* 850	50	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	95		% Rec
BROMOFLUOROBENZENE	100		% Rec

*NOTE: * RUN AT 1:10 DILUTION*

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: J. MINNIEAR, II Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 21-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	110	10	ug/L
ACENAPHTHYLENE	58	10	ug/L
ANTHRACENE	16	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L

EMS HERITAGE LABORATORIES, INC.

Lab Sample ID: A220595

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	11	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	EST 7	10	ug/L
FLUORENE	54	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	* 420	100	ug/L
NAPHTHALENE	* 1500	100	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	69	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	10	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	12	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220595

Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	EST 9	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	50		% Rec
PHENOL-D5	33		% Rec
NITROBENZENE-D5	96		% Rec
2-FLUOROBIPHENYL	90		% Rec
2,4,6-TRIBROMOPHENOL	73		% Rec
TERPHENYL-D14	93		% Rec

*NOTE: * RUN AT 1:10 DILUTION*

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

NOTE: UNIDENTIFIED PEAKS DETECTED

Sample Comments

** See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 3404.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	19-DEC-90	A220600
	Complete 11-JAN-91	PO Number P0072488
	Printed 14-JAN-91	Sampled 17-DEC-90 10:50

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UMW-102-1290 (GRAB)
SAMPLE LOCATION:: UMW-102

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 20-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 21-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: J. GRIFFIN Analysis Date: 20-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 26-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN Analysis Date: 29-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.2	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.78	0.10	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	260	50	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	BDL	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 21-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.16	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	6.3	0.020	mg/L

EMS HERITAGE LABORATORIES, INC.

Lab Sample ID: A220600

LEAD ICP SW846-6010

Analyst: M. JAO | Analysis Date: 24-DEC-90 | Instrument: ICP | Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO | Analysis Date: 24-DEC-90 | Instrument: ICP | Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	2.1	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO | Analysis Date: 24-DEC-90 | Instrument: ICP | Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.017	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO | Analysis Date: 24-DEC-90 | Instrument: ICP | Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.066	0.020	mg/L

prep blank was 0.038 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM | Analysis Date: 09-JAN-91 | Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER | Analysis Date: 10-JAN-91 | Instrument: CVAA | Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	0.0024	0.0005	mg/L

SECOND RESULT WAS BDL

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN | Analysis Date: 20-DEC-90 | Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: K. KEHOE | Analysis Date: 21-DEC-90 | Instrument: GFAA | Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220600

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 21-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	* 48	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	* 83	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	* 12	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	114		% Rec
TOLUENE-D8	105		% Rec
BROMOFLUOROBENZENE	110		% Rec

*NOTE: * ALSO DETECTED IN THE BLANK*

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: J. MINNIEAR, II Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

EMS HERITAGE LABORATORIES, INC.

Lab Sample ID: A220600

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 21-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220600

Parameter	Result	Det. Limit	Units
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	0		% Rec
PHENOL-D5	0		% Rec
NITROBENZENE-D5	91		% Rec
2-FLUOROBIPHENYL	86		% Rec
2,4,6-TRIBROMOPHENOL	33		% Rec
TERPHENYL-D14	95		% Rec

NOTE: SPIKE AND SPIKE DUPLICATE YIELDED SIMILAR SURROGATE RECOVERIES.

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

* *See Note for Parameter*
BDL *Below Detection Limit*

Sample chain of custody number 3404.

Quality Assurance Officer: D Peterson

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	18-DEC-90	A220499
	Complete 10-JAN-91	PO Number P0072488
	Printed 11-JAN-91	Sampled 16-DEC-90 16:40

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID #: UMW-103-1290
LOCATION: UMW-103
PROJECT: 122765 / I.P. CHAMPAIGN

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 19-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.35	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: S. RANKIN Analysis Date: 19-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	10	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: P. ANDERSON Analysis Date: 28-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220499

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	3.7	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: L. MATTINGLY Analysis Date: 18-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.03	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: T. BARNES Analysis Date: 26-DEC-90 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	170	125	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	82	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 20-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.36	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	0.060	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	0.067	0.020	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220499

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	58.	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	0.054	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	1.9	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.080	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.25	0.020	mg/L

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 07-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. SCROGHAM Analysis Date: 08-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 19-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 19-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	0.019	0.0050	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220499

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 19-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	120	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	* 440	50	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	22	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	* 400	50	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	108		% Rec
TOLUENE-D8	104		% Rec
BROMOFLUOROBENZENE	105		% Rec

*NOTE: * RUN AT 1:10 DILUTION*

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 27-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	160	10	ug/L
ACENAPHTHYLENE	EST 6	10	ug/L
ANTHRACENE	14	10	ug/L

Parameter	Result	Det. Limit	Units
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	12	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	56	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	EST 450	500	ug/L
NAPHTHALENE	* 2400	500	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	65	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	EST 7	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	18		% Rec
PHENOL-D5	13		% Rec
NITROBENZENE-D5	210		% Rec
2-FLUOROBIPHENYL	81		% Rec
2,4,6-TRIBROMOPHENOL	38		% Rec
TERPHENYL-D14	88		% Rec

*NOTE: * FROM 1:50 DILUTION*
NOTE: 2-METHYLNAPHTHALENE FROM 1:50 DILUTION

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: M. FRANK Analysis Date: 19-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

NOTE: UNIDENTIFIED PEAKS DETECTED

Sample Comments

* *See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 3402.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	18-DEC-90	A220502
	Complete 10-JAN-91	PO Number P0072488
	Printed 11-JAN-91	Sampled 16-DEC-90 10:15

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID #: UMW-104-1290
LOCATION: UMW-104
PROJECT: 122765 / I.P. CHAMPAIGN

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN | Analysis Date: 19-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE | Analysis Date: 20-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.03	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: S. RANKIN | Analysis Date: 19-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: C. BOYLE | Analysis Date: 20-DEC-90 | Instrument: AUTO-ANALYZER | Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN | Analysis Date: 20-DEC-90 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN | Analysis Date: 29-DEC-90 | Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.6	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: L. MATTINGLY Analysis Date: 18-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.19	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: T. BARNES Analysis Date: 26-DEC-90 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	96	25	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	BDL	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 20-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.088	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	0.37	0.020	mg/L

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.37	0.010	mg/L

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.013	0.010	mg/L

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.073	0.020	mg/L

prep blank was 0.035 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470
Analyst: M. SCROGHAM Analysis Date: 07-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470
Analyst: M. SCROGHAM Analysis Date: 08-JAN-91 Instrument: CVAA Test: M120.1. 0
Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020
Analyst: B. HAHN Analysis Date: 19-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060
Analyst: M. BAUER Analysis Date: 19-DEC-90 Instrument: GFAA Test: M103.2. 0
Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220502

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 19-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	110		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	112		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 27-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A220502**

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220502

Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	30		% Rec
PHENOL-D5	19		% Rec
NITROBENZENE-D5	70		% Rec
2-FLUOROBIPHENYL	62		% Rec
2,4,6-TRIBROMOPHENOL	42		% Rec
TERPHENYL-D14	98		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: J. MINNIEAR, II Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3402.

Quality Assurance Officer: D Peterson

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	18-DEC-90	A220503
	Complete 10-JAN-91	PO Number P0072488
	Printed 11-JAN-91	Sampled 16-DEC-90 12:45

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID #: UMW-105-1290
LOCATION: UMW-105
PROJECT: 122765 / I.P. CHAMPAIGN

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN | Analysis Date: 19-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE | Analysis Date: 20-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.10	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: S. RANKIN | Analysis Date: 19-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: C. BOYLE | Analysis Date: 20-DEC-90 | Instrument: AUTO-ANALYZER | Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN | Analysis Date: 20-DEC-90 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN | Analysis Date: 29-DEC-90 | Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.2	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: L. MATTINGLY Analysis Date: 18-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	15	10	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: T. BARNES Analysis Date: 26-DEC-90 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	130	125	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	BDL	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 20-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.12	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220503

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	0.63	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.12	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.014	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.087	0.020	mg/L

prep blank was 0.035 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 07-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. SCROGHAM Analysis Date: 08-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 19-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 19-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220503

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 19-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	99		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 28-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3′-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L

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Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	44		% Rec
PHENOL-D5	29		% Rec
NITROBENZENE-D5	81		% Rec
2-FLUOROBIPHENYL	84		% Rec
2,4,6-TRIBROMOPHENOL	70		% Rec
TERPHENYL-D14	75		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: J. MINNIEAR, II Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3402.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	18-DEC-90	A220501
	Complete 14-JAN-91	PO Number P0072488
	Printed 15-JAN-91	Sampled 16-DEC-90 16:30

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID #: UMW-106-1290
LOCATION: UMW-106
PROJECT: 122765 / I.P. CHAMPAIGN

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 19-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.22	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: S. RANKIN Analysis Date: 19-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: P. ANDERSON Analysis Date: 28-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.3	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: L. MATTINGLY Analysis Date: 18-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.04	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: T. BARNES Analysis Date: 26-DEC-90 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	420	125	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 27-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	21	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 20-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.14	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	0.64	0.020	mg/L

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.067	0.010	mg/L

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.069	0.020	mg/L

prep blank was 0.035 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470
Analyst: M. SCROGHAM Analysis Date: 07-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470
Analyst: M. SCROGHAM Analysis Date: 08-JAN-91 Instrument: CVAA Test: M120.1. 0
Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	0.00097	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020
Analyst: B. HAHN Analysis Date: 19-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060
Analyst: M. BAUER Analysis Date: 19-DEC-90 Instrument: GFAA Test: M103.2. 0
Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 19-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	109		% Rec
TOLUENE-D8	105		% Rec
BROMOFLUOROBENZENE	111		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 27-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	EST 6	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220501

Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	37		% Rec
PHENOL-D5	24		% Rec
NITROBENZENE-D5	67		% Rec
2-FLUOROBIPHENYL	78		% Rec
2,4,6-TRIBROMOPHENOL	59		% Rec
TERPHENYL-D14	89		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: R. BRANCH Analysis Date: 19-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

NOTE: UNIDENTIFIED PEAKS DETECTED

Sample Comments

BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 3402.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	18-DEC-90	A220500
	Complete 10-JAN-91	PO Number P0072488
	Printed 11-JAN-91	Sampled 16-DEC-90 14:10

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID #: UMW-107-1290
LOCATION: UMW-107
PROJECT: 122765 / I.P. CHAMPAIGN

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 19-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.97	0.10	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: S. RANKIN Analysis Date: 19-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	0.05	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: P. ANDERSON Analysis Date: 28-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	32	1.0	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: L. MATTINGLY Analysis Date: 18-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.03	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: T. BARNES Analysis Date: 26-DEC-90 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	5	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	77	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 20-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.27	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	2.1	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.19	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.013	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.087	0.020	mg/L

prep blank was 0.035 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 07-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. SCROGHAM Analysis Date: 08-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	0.00052	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 19-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 19-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220500

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 19-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	* 3600	250	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	56	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	27	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	80	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	108		% Rec

*NOTE: * RUN AT 1:50 DILUTION*

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 27-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220500

Parameter	Result	Det. Limit	Units
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	17	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			
2-FLUOROPHENOL	40		% Rec
PHENOL-D5	27		% Rec
NITROBENZENE-D5	74		% Rec
2-FLUOROBIPHENYL	77		% Rec
2,4,6-TRIBROMOPHENOL	86		% Rec
TERPHENYL-D14	86		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: R. BRANCH Analysis Date: 19-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

NOTE: UNIDENTIFIED PEAKS DETECTED

Sample Comments

* *See Note for Parameter*
BDL Below Detection Limit

Sample chain of custody number 3402.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	19-DEC-90	A220596
	Complete 11-JAN-91	PO Number P0072488
	Printed 12-JAN-91	Sampled 17-DEC-90 15:35

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UMW-108-B-1290 (GRAB)
SAMPLE LOCATION:: UMW-108-B

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN | Analysis Date: 20-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE | Analysis Date: 21-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.08	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: J. GRIFFIN | Analysis Date: 20-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN | Analysis Date: 26-DEC-90 | Instrument: AUTO-ANALYZER | Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN | Analysis Date: 20-DEC-90 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN | Analysis Date: 29-DEC-90 | Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.5	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.07	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	92	25	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	41	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 26-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.23	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	7.2	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.89	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.021	0.010	mg/L

prep blank was 0.013 mg/l

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.13	0.020	mg/L

prep blank was 0.070 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 09-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER Analysis Date: 10-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 26-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: S. GRAY Analysis Date: 03-JAN-91 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 20-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	104		% Rec
TOLUENE-D8	102		% Rec
BROMOFLUOROBENZENE	100		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: R. BRANCH Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 21-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	28		% Rec
PHENOL-D5	17		% Rec
NITROBENZENE-D5	81		% Rec
2-FLUOROBIPHENYL	59		% Rec
2,4,6-TRIBROMOPHENOL	27		% Rec
TERPHENYL-D14	95		% Rec

HYDROCARBON SCAN SW846-8000

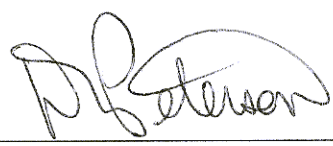
Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3404.

Quality Assurance Officer: 

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	18-DEC-90	A220498
	Complete 10-JAN-91	PO Number P0072488
	Printed 11-JAN-91	Sampled 16-DEC-90 09:30

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID #: UMW-110-1290
LOCATION: UMW-110
PROJECT: 122765 / I.P. CHAMPAIGN

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 19-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.86	0.10	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: S. RANKIN Analysis Date: 19-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	10	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: P. ANDERSON Analysis Date: 28-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	3.9	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: L. MATTINGLY Analysis Date: 18-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.05	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: T. BARNES Analysis Date: 26-DEC-90 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	270	125	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	42	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 20-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.18	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	1.5	0.020	mg/L

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	3.7	0.010	mg/L

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.093	0.020	mg/L

prep blank was 0.035 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470
Analyst: M. SCROGHAM Analysis Date: 07-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470
Analyst: M. SCROGHAM Analysis Date: 08-JAN-91 Instrument: CVAA Test: M120.1. 0
Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020
Analyst: B. HAHN Analysis Date: 19-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060
Analyst: M. BAUER Analysis Date: 19-DEC-90 Instrument: GFAA Test: M103.2. 0
Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 19-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	83	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	150	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	120	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	107		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	109		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: M. FRANK Analysis Date: 19-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220498

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 27-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	52	10	ug/L
ACENAPHTHYLENE	93	10	ug/L
ANTHRACENE	11	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	11	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	51	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	34	10	ug/L
NAPHTHALENE	* 630	50	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	56	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	EST 7	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	19-DEC-90	A220597
	Complete 11-JAN-91	PO Number P0072488
	Printed 12-JAN-91	Sampled 17-DEC-90 16:10

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE NO.: UMW-111-1290 (GRAB)
SAMPLE LOCATION:: UMW-111

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 20-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 21-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: J. GRIFFIN Analysis Date: 20-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 26-DEC-90 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN Analysis Date: 29-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.3	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	5.5	1.0	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	160	50	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	480	30	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 26-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.36	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	0.11	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	0.068	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	93.	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	0.083	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	1.7	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.12	0.010	mg/L

prep blank was 0.013 mg/l

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.28	0.020	mg/L

prep blank was 0.070 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 09-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER Analysis Date: 10-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	0.0022	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 26-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: S. GRAY Analysis Date: 03-JAN-91 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	0.015	0.0050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 21-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	* 27	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	* 7	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	109		% Rec
TOLUENE-D8	105		% Rec
BROMOFLUOROBENZENE	110		% Rec

*NOTE: * ALSO DETECTED IN THE BLANK*

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: R. BRANCH Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 21-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L

Parameter	Result	Det. Limit	Units
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	39		% Rec
PHENOL-D5	24		% Rec
NITROBENZENE-D5	87		% Rec
2-FLUOROBIPHENYL	69		% Rec
2,4,6-TRIBROMOPHENOL	61		% Rec
TERPHENYL-D14	83		% Rec

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

* *See Note for Parameter*
BDL Below Detection Limit

Sample chain of custody number 3404.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	18-DEC-90	A220504
	Complete 10-JAN-91	PO Number P0072488
	Printed 11-MAR-91	Sampled 16-DEC-90 11:15

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID #: UMW-112-1290
LOCATION: UMW-112
PROJECT: 122765 / I.P. CHAMPAIGN

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 19-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: S. RANKIN Analysis Date: 19-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN Analysis Date: 29-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

EMS HERITAGE LABORATORIES, INC.

Lab Sample ID: A220504

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON | Analysis Date: 31-DEC-90 | Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	BDL	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: L. MATTINGLY | Analysis Date: 18-DEC-90 | Instrument: AUTO-ANALYZER | Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	BDL	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: T. BARNES | Analysis Date: 26-DEC-90 | Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	130	125	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY | Analysis Date: 21-DEC-90 | Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	46	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS | Analysis Date: 20-DEC-90 | Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO | Analysis Date: 21-DEC-90 | Instrument: ICP | Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.12	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO | Analysis Date: 21-DEC-90 | Instrument: ICP | Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO | Analysis Date: 21-DEC-90 | Instrument: ICP | Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO | Analysis Date: 21-DEC-90 | Instrument: ICP | Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	0.025	0.020	mg/L

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	0.88	0.020	mg/L

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.43	0.010	mg/L

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.029	0.010	mg/L

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.10	0.020	mg/L

prep blank was 0.035 mg/l

MERCURY CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470
Analyst: M. SCROGHAM Analysis Date: 07-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470
Analyst: M. SCROGHAM Analysis Date: 08-JAN-91 Instrument: CVAA Test: M120.1. 0
Prep: MERCURY CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020
Analyst: B. HAHN Analysis Date: 19-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060
Analyst: M. BAUER Analysis Date: 19-DEC-90 Instrument: GFAA Test: M103.2. 0
Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220504

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 19-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			
DICHLOROETHANE-D4	119		% Rec
TOLUENE-D8	95		% Rec
BROMOFLUOROBENZENE	111		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: K. STONER Analysis Date: 28-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220504

Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	41		% Rec
PHENOL-D5	26		% Rec
NITROBENZENE-D5	93		% Rec
2-FLUOROBIPHENYL	96		% Rec
2,4,6-TRIBROMOPHENOL	86		% Rec
TERPHENYL-D14	93		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: M. FRANK Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3402.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	19-DEC-90	A220598
	Complete 11-JAN-91	PO Number P0072488
	Printed 12-JAN-91	Sampled 17-DEC-90 16:45

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UMW-401-1290 (GRAB)
SAMPLE LOCATION:: UMW-401

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN | Analysis Date: 20-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE | Analysis Date: 21-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: J. GRIFFIN | Analysis Date: 20-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN | Analysis Date: 26-DEC-90 | Instrument: AUTO-ANALYZER | Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN | Analysis Date: 20-DEC-90 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN | Analysis Date: 29-DEC-90 | Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	2.3	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	BDL	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	7	5	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	49	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 21-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.14	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	0.99	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.34	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 24-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.033	0.020	mg/L

prep blank was 0.038 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 09-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER Analysis Date: 10-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 20-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: K. KEHOE Analysis Date: 21-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 21-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	* 28	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220598

Parameter	Result	Det. Limit	Units
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	* 35	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	* 7	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	101		% Rec
BROMOFLUOROBENZENE	108		% Rec

*NOTE: * ALSO DETECTED IN THE BLANK*

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: J. MINNIEAR, II Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 28-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220598

Parameter	Result	Det. Limit	Units
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	40		% Rec
PHENOL-D5	23		% Rec
NITROBENZENE-D5	79		% Rec
2-FLUOROBIPHENYL	68		% Rec
2,4,6-TRIBROMOPHENOL	45		% Rec
TERPHENYL-D14	79		% Rec
ALSO DETECTED			
UNKNOWN	RT=2.56		

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

* *See Note for Parameter*
BDL Below Detection Limit
RT Retention Time

Sample chain of custody number 3404.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	18-DEC-90	A220506
	Complete 10-JAN-91	PO Number P0072488
	Printed 11-JAN-91	Sampled 16-DEC-90 17:40

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID #: UMW-402-1290
LOCATION: UMW-402
PROJECT: 122765 / I.P. CHAMPAIGN

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 19-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: S. RANKIN Analysis Date: 19-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: C. BOYLE Analysis Date: 20-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 20-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: S. RANKIN Analysis Date: 29-DEC-90 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: P. ANDERSON Analysis Date: 31-DEC-90 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	2.6	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: L. MATTINGLY Analysis Date: 18-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.39	0.10	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: T. BARNES Analysis Date: 26-DEC-90 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	50	25	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	170	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 20-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.21	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.005	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.005	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	2.8	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.91	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 21-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.06	0.020	mg/L

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 07-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. SCROGHAM Analysis Date: 08-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 19-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 19-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220506

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 19-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	108		% Rec
TOLUENE-D8	97		% Rec
BROMOFLUOROBENZENE	105		% Rec

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 21-DEC-90 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L

Parameter	Result	Det. Limit	Units
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	40		% Rec
PHENOL-D5	23		% Rec
NITROBENZENE-D5	86		% Rec
2-FLUOROBIPHENYL	74		% Rec
2,4,6-TRIBROMOPHENOL	57		% Rec
TERPHENYL-D14	91		% Rec

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: R. BRANCH Analysis Date: 20-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

HYDROCARBON SCAN SW846-8000

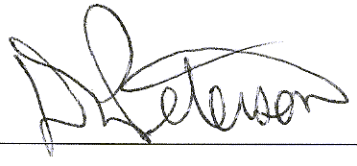
Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 3403.

Quality Assurance Officer: 

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-90	A220739
	Complete 11-JAN-91	PO Number PO072488
	Printed 12-JAN-91	Sampled 19-DEC-90 11:20

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UMW-403-1290
DESCRIPTION: UMW-403
PROJECT NUMBER: 122765

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN | Analysis Date: 21-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE | Analysis Date: 24-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH | Analysis Date: 21-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN | Analysis Date: 26-DEC-90 | Instrument: AUTO-ANALYZER | Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN | Analysis Date: 24-DEC-90 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	10	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: K. RILEY | Analysis Date: 02-JAN-91 | Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: K. RILEY Analysis Date: 04-JAN-91 Test: G203.4. 0
Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	2.3	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2
Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	BDL	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4
Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	40	25	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4
Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	130	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005
Analyst: C. THOMAS Analysis Date: 26-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M104.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.11	0.010	mg/L

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M108.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M110.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M112.3. 0
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	1.4	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.31	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.010	0.010	mg/L

prep blank was 0.011 mg/l

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.11	0.020	mg/L

prep blank was 0.067 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 09-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER Analysis Date: 10-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 21-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 21-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 02-JAN-91 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	30	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	104		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	112		% Rec

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220739

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: T. BILLE Analysis Date: 22-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 02-JAN-91 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220739

Parameter	Result	Det. Limit	Units
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	51		% Rec
PHENOL-D5	37		% Rec
NITROBENZENE-D5	58		% Rec
2-FLUOROBIPHENYL	54		% Rec
2,4,6-TRIBROMOPHENOL	80		% Rec
TERPHENYL-D14	68		% Rec

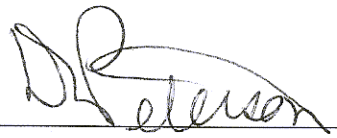
HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

Sample Comments

BDL Below Detection Limit

Quality Assurance Officer: 

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-90	A220737
	Complete 11-JAN-91	PO Number P0072488
	Printed 12-JAN-91	Sampled 19-DEC-90 09:30

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UPZ-101-1290
DESCRIPTION: UPZ-101
PROJECT NUMBER: 122765

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 21-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 24-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.56	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH Analysis Date: 21-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 26-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	0.05	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 24-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	10	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: K. RILEY Analysis Date: 02-JAN-91 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. RILEY Analysis Date: 04-JAN-91 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	BDL	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	BDL	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	350	100	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	110	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 26-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.23	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	0.021	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	8.8	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	1.7	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.011	0.010	mg/L

prep blank was 0.011 mg/l

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.12	0.020	mg/L

prep blank was 0.067 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 09-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER Analysis Date: 10-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 21-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220737

ARSENIC GFAA SW846-7060

Analyst: K. KEHOE Analysis Date: 07-JAN-91 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 28-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	200	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	200	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	30	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	200	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	107		% Rec
TOLUENE-D8	101		% Rec
BROMOFLUOROBENZENE	102		% Rec
ALSO DETECTED:			
BENZOFURAN	RT=34.12		
UNKNOWN	RT=35.64		
ETHYL METHYL BENZENE	RT=36.62		

EMS HERITAGE LABORATORIES, INC.

Lab Sample ID: A220737

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: T. BILLE Analysis Date: 22-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 02-JAN-91 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	64	10	ug/L
ACENAPHTHYLENE	120	10	ug/L
ANTHRACENE	12	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	15	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	7	10	ug/L
FLUORENE	43	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	* 240	100	ug/L
NAPHTHALENE	* 1100	100	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	50	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	EST 7	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	EST 7	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	15	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	58		% Rec
PHENOL-D5	34		% Rec
NITROBENZENE-D5	61		% Rec
2-FLUOROBIPHENYL	49		% Rec
2,4,6-TRIBROMOPHENOL	30		% Rec
TERPHENYL-D14	61		% Rec

*NOTE: * FROM 1:10 DILUTION*

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

NOTE: UNIDENTIFIED PEAKS DETECTED

Sample Comments

** See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value
RT Retention Time

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-90	A220738
	Complete 11-JAN-91	PO Number P0072488
	Printed 12-JAN-91	Sampled 19-DEC-90 09:50

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UPZ-301-1290
DESCRIPTION: UPZ-301
PROJECT NUMBER: 122765

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN Analysis Date: 21-DEC-90 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE Analysis Date: 24-DEC-90 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	4.4	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH Analysis Date: 21-DEC-90 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN Analysis Date: 26-DEC-90 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	0.05	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN Analysis Date: 24-DEC-90 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	10	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: K. RILEY Analysis Date: 02-JAN-91 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. RILEY Analysis Date: 04-JAN-91 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	32	1.0	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	BDL	0.01	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	420	100	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	5900	100	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 26-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	4.3	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.5	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	1.2	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	1.6	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 31-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	2000	2.00	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	1.5	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	37.	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	2.1	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	6.2	0.020	mg/L

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 09-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER Analysis Date: 10-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	0.0030	0.0010	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 21-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 21-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.025	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: A. WIDZISZ Analysis Date: 28-DEC-90 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	90	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	150	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	EST 210	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	30	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	200	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	104		% Rec
TOLUENE-D8	90		% Rec
BROMOFLUOROBENZENE	90		% Rec
ALSO DETECTED:			
METHYL ETHYL BENZENE	RT=35.54		
METHYL ETHYL BENZENE	RT=37.5		

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Analyst: T. BILLE Analysis Date: 22-DEC-90 Test: P233.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL ACID FRACTIONS) SW846-8270

Analyst: M. DONOFRIO Analysis Date: 02-JAN-91 Instrument: GC/MS SVOA Test: 0505.3. 0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	48	10	ug/L
ACENAPHTHYLENE	60	10	ug/L
ANTHRACENE	20	10	ug/L
BENZ(A)ANTHRACENE	EST 10	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	EST 7	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	EST 8	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	15	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLOURANTHENE	26	10	ug/L
FLUORENE	35	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	140	10	ug/L
NAPHTHALENE	* 710	100	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	71	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	21	10	ug/L
PYRIDINE	BDL	50	ug/L

Parameter	Result	Det. Limit	Units
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	19	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	13	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	60		% Rec
PHENOL-D5	47		% Rec
NITROBENZENE-D5	52		% Rec
2-FLUOROBIPHENYL	38		% Rec
2,4,6-TRIBROMOPHENOL	98		% Rec
TERPHENYL-D14	31		% Rec

*NOTE: * RUN AT 1:10 DILUTION*

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

NOTE: UNIDENTIFIED PEAKS DETECTED

Sample Comments

* *See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value
RT Retention Time

Quality Assurance Officer: D. Peterson

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	20-DEC-90	A220740
	Complete 11-JAN-91	PO Number P0072488
	Printed 12-JAN-91	Sampled 19-DEC-90 14:00

Report To

JOHN MATHES AND ASSOCIATES
KATHLEEN A. BLAINE
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ILLINOIS POWER COMPANY
ACCOUNTS PAYABLE
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE NO.: UPZ-303-1290
DESCRIPTION: UPZ-303
PROJECT NUMBER: 122765

CYANIDE DISTILLATION SW846-9010

Analyst: J. GRIFFIN | Analysis Date: 21-DEC-90 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE TOTAL (AUTOMATED) SW846-9012

Analyst: C. BOYLE | Analysis Date: 24-DEC-90 | Instrument: AUTO-ANALYZER | Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.03	0.01	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: K. SMITH | Analysis Date: 21-DEC-90 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP SW846-9066

Analyst: J. GRIFFIN | Analysis Date: 26-DEC-90 | Instrument: AUTO-ANALYZER | Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	0.02	0.01	mg/L

SULFIDE SW846-9030

Analyst: S. HALLORAN | Analysis Date: 24-DEC-90 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	10	mg/L

AMMONIA DISTILLATION EPA 350.3

Analyst: K. RILEY | Analysis Date: 02-JAN-91 | Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. RILEY Analysis Date: 04-JAN-91 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.3

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.3	0.10	mg/L

NITROGEN-NITRATE (COLORIMETRIC AUTOMATED) EPA 353.2

Analyst: C. BOYLE Analysis Date: 22-DEC-90 Instrument: AUTO-ANALYZER Test: G106.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE	0.16	0.10	mg/L

SULFATE TURBIDIMETRIC EPA 375.4

Analyst: D. JOSEPH Analysis Date: 02-JAN-91 Test: G108.5. 0

Parameter	Result	Det. Limit	Units
SULFATE	120	50	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: S. MCCROTTY Analysis Date: 21-DEC-90 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	36	10	mg/L

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Analyst: C. THOMAS Analysis Date: 26-DEC-90 Test: P132.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
BARIUM	0.21	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
IRON	2.3	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
MANGANESE	0.21	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
NICKEL	0.010	0.010	mg/L

prep blank was 0.011 mg/l

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 27-DEC-90 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005

Parameter	Result	Det. Limit	Units
ZINC	0.11	0.020	mg/L

prep blank was 0.067 mg/l

CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Analyst: M. SCROGHAM Analysis Date: 09-JAN-91 Test: P134.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: M. BAUER Analysis Date: 10-JAN-91 Instrument: CVAA Test: M120.1. 0

Prep: CVAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Analyst: B. HAHN Analysis Date: 21-DEC-90 Test: P133.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 21-DEC-90 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

VOLATILE ORGANICS SW846-8240

Analyst: H. WILLIAMS Analysis Date: 03-JAN-91 Instrument: GC/MS VOA Test: 0510.3. 0

Parameter	Result	Det. Limit	Units
ACETONE	140	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	15	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYLBENZENE	7	5	ug/L
FLUOROTRICHLOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	6	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	55	5	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	102		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	104		% Rec

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A220740

Parameter	Result	Det. Limit	Units
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	10	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	58		% Rec
PHENOL-D5	43		% Rec
NITROBENZENE-D5	34		% Rec
2-FLUOROBIPHENYL	31		% Rec
2,4,6-TRIBROMOPHENOL	80		% Rec
TERPHENYL-D14	46		% Rec

HYDROCARBON SCAN SW846-8000

Analyst: S. GATTO Analysis Date: 21-DEC-90 Instrument: GC/FID Test: 0409.0. 0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	1.3	mg/L
DIESEL FUEL	BDL	5.0	mg/L
OTHER HYDROCARBONS	BDL		mg/L

NOTE: UNIDENTIFIED PEAKS DETECTED

Sample Comments

BDL Below Detection Limit

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	27-JAN-92		A246331
	Complete: 14-FEB-92	PO Number: PO 099698	
	Printed: 16-FEB-93	Sampled: 24-JAN-92 10:15	

Report To

KATHLEEN A. BLAINE
BURLINGTON ENVIRONMENTAL
P.O. BOX 330
210 WEST SAND BANK ROAD
COLUMBIA, IL 62236-0330

Bill To

ACCOUNTS PAYABLE
ILLINOIS POWER COMPANY
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-101-0192
DESCRIPTION: WELL #UMW-101
LOCATION: IP CHAMPAIGN

VOLATILE ORGANICS SW846-8240

Analyst: R. SHAMP Analysis Date: 04-FEB-92 Instrument: GC/MS VOA Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	48	mg/kg
ACROLEIN	BDL	120	mg/kg
ACRYLONITRILE	BDL	170	mg/kg
BENZENE	14	12	mg/kg
BROMODICHLOROMETHANE	BDL	12	mg/kg
BROMOFORM	BDL	12	mg/kg
BROMOMETHANE	BDL	25	mg/kg
CARBON DISULFIDE	BDL	12	mg/kg
CARBON TETRACHLORIDE	BDL	12	mg/kg
CHLOROBENZENE	BDL	12	mg/kg
CHLOROETHANE	BDL	25	mg/kg
CHLOROFORM	BDL	12	mg/kg
CHLOROMETHANE	BDL	25	mg/kg
DIBROMOCHLOROMETHANE	BDL	12	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	12	mg/kg
DICHLORODIFLUOROMETHANE	BDL	12	mg/kg
1,1-DICHLOROETHANE	BDL	12	mg/kg
1,2-DICHLOROETHANE	BDL	12	mg/kg
1,1-DICHLOROETHENE	BDL	12	mg/kg
1,2-DICHLOROPROPANE	BDL	12	mg/kg
ETHYLBENZENE	EST 560	12	mg/kg
FLUOROTRICHLOROMETHANE	BDL	12	mg/kg
2-HEXANONE	BDL	25	mg/kg
METHYLENE CHLORIDE	BDL	12	mg/kg
METHYL ETHYL KETONE	BDL	25	mg/kg
4-METHYL-2-PENTANONE	BDL	25	mg/kg
STYRENE	BDL	12	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	12	mg/kg
TETRACHLOROETHENE	BDL	12	mg/kg
TETRAHYDROFURAN	BDL	60	mg/kg
TOLUENE	58	12	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	12	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	12	mg/kg

Parameter	Result	Det. Limit	Units
1,1,1-TRICHLOROETHANE	BDL	12	mg/kg
1,1,2-TRICHLOROETHANE	BDL	12	mg/kg
TRICHLOROETHENE	BDL	12	mg/kg
VINYL ACETATE	BDL	25	mg/kg
VINYL CHLORIDE	BDL	25	mg/kg
XYLENE (TOTAL)	710	12	mg/kg
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	*		% Rec
TOLUENE-D8	*		% Rec
BROMOFLUOROBENZENE	*		% Rec
PACKED COLUMN METHOD 8240 HAS BEEN REPLACED BY CAPILLARY COLUMN METHOD 8260 ON THIS INSTRUMENT			

1:2500 DILUTION
*** SAMPLE WILL BE RERUN AT A DILUTION DUE TO HIGH TARGET COMPOUNDS.*
** SURROGATES DILUTED OUT.*

VOLATILE ORGANICS SW846-8240
Analyst: R. SHAMP Analysis Date: 05-FEB-92 Instrument: GC/MS VOA Test: 0510.3.1

Parameter	Result	Det. Limit	Units
ACETONE	BDL	120	mg/kg
ACROLEIN	BDL	310	mg/kg
ACRYLONITRILE	BDL	440	mg/kg
BENZENE	BDL	31	mg/kg
BROMODICHLOROMETHANE	BDL	31	mg/kg
BROMOFORM	BDL	31	mg/kg
BROMOMETHANE	BDL	63	mg/kg
CARBON DISULFIDE	BDL	31	mg/kg
CARBON TETRACHLORIDE	BDL	31	mg/kg
CHLOROBENZENE	BDL	31	mg/kg
CHLOROETHANE	BDL	63	mg/kg
CHLOROFORM	BDL	31	mg/kg
CHLOROMETHANE	BDL	63	mg/kg
DIBROMOCHLOROMETHANE	BDL	31	mg/kg
CIS-1,3-DICHLOROPROPENE	BDL	31	mg/kg
DICHLORODIFLUOROMETHANE	BDL	31	mg/kg
1,1-DICHLOROETHANE	BDL	31	mg/kg
1,2-DICHLOROETHANE	BDL	31	mg/kg
1,1-DICHLOROETHENE	BDL	31	mg/kg
1,2-DICHLOROPROPANE	BDL	31	mg/kg
ETHYLBENZENE	430	31	mg/kg
FLUOROTRICHLOROMETHANE	BDL	31	mg/kg
2-HEXANONE	BDL	63	mg/kg
METHYLENE CHLORIDE	BDL	31	mg/kg
METHYL ETHYL KETONE	BDL	63	mg/kg
4-METHYL-2-PENTANONE	BDL	63	mg/kg
STYRENE	BDL	31	mg/kg
1,1,2,2-TETRACHLOROETHANE	BDL	31	mg/kg
TETRACHLOROETHENE	BDL	31	mg/kg
TETRAHYDROFURAN	BDL	150	mg/kg
TOLUENE	61	31	mg/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	31	mg/kg
TRANS-1,3-DICHLOROPROPENE	BDL	31	mg/kg
1,1,1-TRICHLOROETHANE	BDL	31	mg/kg
1,1,2-TRICHLOROETHANE	BDL	31	mg/kg

Parameter	Result	Det. Limit	Units
TRICHLOROETHENE	BDL	31	mg/kg
VINYL ACETATE	BDL	63	mg/kg
VINYL CHLORIDE	BDL	63	mg/kg
XYLENE (TOTAL)	590	31	mg/kg
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	*		% Rec
TOLUENE-D8	*		% Rec
BROMOFLUOROBENZENE	*		% Rec
PACKED COLUMN METHOD 8240 HAS BEEN REPLACED BY CAPILLARY COLUMN METHOD 8260 ON THIS INSTRUMENT			

1:6300 DILUTION
NOTE: SAMPLE WAS RERUN AT DILUTION DUE TO HIGH TARGET COMPOUNDS.
*NOTE: * SURROGATES DILUTED OUT*

GC/MS WASTE DILUTION FOR ORGANICS SW846-3580
Analyst: G. HUGHS Analysis Date: 31-JAN-92 Test: P237.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.117		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270
Analyst: M. FRANK Analysis Date: 08-FEB-92 Instrument: GC/MS SVOA Test: 0505.3.0
Prep: GC/MS WASTE DILUTION FOR ORGANICS SW846-3580 P237.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	EST 460	8.5	mg/kg
ACENAPHTHYLENE	EST 190	8.5	mg/kg
ANTHRACENE	EST 280	8.5	mg/kg
BENZ(A)ANTHRACENE	EST 260	8.5	mg/kg
BENZO(A)PYRENE	110	8.5	mg/kg
BENZO(B)FLUORANTHENE	100	8.5	mg/kg
BENZO(G,H,I)PERYLENE	97	8.5	mg/kg
BENZO(K)FLUORANTHENE	25	8.5	mg/kg
BENZYL ALCOHOL	BDL	8.5	mg/kg
BENZYLBUTYLPHTHALATE	BDL	8.5	mg/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	8.5	mg/kg
BIS(2-CHLOROETHYL)ETHER	BDL	8.5	mg/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	8.5	mg/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	8.5	mg/kg
4-BROMOPHENYLPHENYLETHER	BDL	8.5	mg/kg
CARBAZOLE	BDL	8.5	mg/kg
4-CHLOROANILINE	BDL	8.5	mg/kg
2-CHLORONAPHTHALENE	BDL	8.5	mg/kg
4-CHLOROPHENYLPHENYLETHER	BDL	8.5	mg/kg
CHRYSENE	EST 170	8.5	mg/kg
DIBENZ(A,H)ANTHRACENE	18	8.5	mg/kg
DIBENZOFURAN	63	8.5	mg/kg
1,2-DICHLOROBENZENE	BDL	8.5	mg/kg
1,3-DICHLOROBENZENE	BDL	8.5	mg/kg
1,4-DICHLOROBENZENE	BDL	8.5	mg/kg
3,3'-DICHLOROBENZIDINE	BDL	17	mg/kg
DIETHYLPHTHALATE	BDL	8.5	mg/kg
DIMETHYLPHTHALATE	BDL	8.5	mg/kg
DI-N-BUTYLPHTHALATE	BDL	8.5	mg/kg
DINITROBENZENES	BDL	8.5	mg/kg

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270

Analyst: M. FRANK Analysis Date: 08-FEB-92 Instrument: GC/MS SVOA Test: 0505.3.1

Prep: GC/MS WASTE DILUTION FOR ORGANICS SW846-3580 P237.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	15000	6600	ug/kg
ACENAPHTHYLENE	EST 5000	6600	ug/kg
ANTHRACENE	10000	6600	ug/kg
BENZ(A)ANTHRACENE	BDL	6600	ug/kg
BENZO(A)PYRENE	BDL	6600	ug/kg
BENZO(B)FLUORANTHENE	BDL	6600	ug/kg
BENZO(G,H,I)PERYLENE	BDL	6600	ug/kg
BENZO(K)FLUORANTHENE	BDL	6600	ug/kg
BENZYL ALCOHOL	BDL	6600	ug/kg
BENZYLBUTYLPHTHALATE	BDL	6600	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	6600	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	6600	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	6600	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	6600	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	6600	ug/kg
CARBAZOLE	BDL	6600	ug/kg
4-CHLOROANILINE	BDL	6600	ug/kg
2-CHLORONAPHTHALENE	BDL	6600	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	6600	ug/kg
CHRYSENE	BDL	6600	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	6600	ug/kg
DIBENZOFURAN	BDL	6600	ug/kg
1,2-DICHLOROBENZENE	BDL	6600	ug/kg
1,3-DICHLOROBENZENE	BDL	6600	ug/kg
1,4-DICHLOROBENZENE	BDL	6600	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	13000	ug/kg
DIETHYLPHTHALATE	BDL	6600	ug/kg
DIMETHYLPHTHALATE	BDL	6600	ug/kg
DI-N-BUTYLPHTHALATE	BDL	6600	ug/kg
DINITROBENZENES	BDL	6600	ug/kg
2,4-DINITROTOLUENE	BDL	6600	ug/kg
2,6-DINITROTOLUENE	BDL	6600	ug/kg
DI-N-OCTYLPHTHALATE	BDL	6600	ug/kg
FLUORANTHENE	14000	6600	ug/kg
FLUORENE	14000	6600	ug/kg
HEXACHLOROBENZENE	BDL	6600	ug/kg
HEXACHLOROBUTADIENE	BDL	6600	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	6600	ug/kg
HEXACHLOROETHANE	BDL	6600	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	6600	ug/kg
ISOPHORONE	BDL	6600	ug/kg
2-METHYLNAPHTHALENE	51000	6600	ug/kg
NAPHTHALENE	77000	6600	ug/kg
2-NITROANILINE	BDL	30000	ug/kg
3-NITROANILINE	BDL	30000	ug/kg
4-NITROANILINE	BDL	30000	ug/kg
NITROBENZENE	BDL	6600	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	6600	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	6600	ug/kg
PHENANTHRENE	35000	6600	ug/kg
2-PICOLINE	BDL	30000	ug/kg
PYRENE	24000	6600	ug/kg
PYRIDINE	BDL	30000	ug/kg
TETRACHLOROBENZENES	BDL	6600	ug/kg

500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	25-JAN-92	A246292
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 24-JAN-92 16:00

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-102-0192
DESCRIPTION: WELL UMW-102
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL | Analysis Date: 25-JAN-92 | Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	6.6	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY | Analysis Date: 27-JAN-92 | Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1300	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT | Analysis Date: 27-JAN-92 | Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	8.6	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER | Analysis Date: 27-JAN-92 | Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	18	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN | Analysis Date: 27-JAN-92 | Instrument: GC/FID | Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT | Analysis Date: 28-JAN-92 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.2
Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0
Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.5	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2
Analyst: P. ANDERSON Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.37	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038
Analyst: K. RILEY Analysis Date: 29-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	370	125	mg/L

1:25 DILUTION

PHENOLS DISTILLATION SW846-9065
Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 30-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010
Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 29-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010
Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M104.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.28	0.010	mg/L

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M108.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M110.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M112.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	BDL	0.025	mg/L

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	5.8	0.010	mg/L

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	0.012	0.010	mg/L

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.048	0.020	mg/L

prep blank was 0.084 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: E. MERRILL Analysis Date: 29-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-FEB-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 31-JAN-92 Instrument: GC/MS VOA Test: O502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L

.

Parameter	Result	Det. Limit	Units
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	30		% Rec
PHENOL-D5	19		% Rec
NITROBENZENE-D5	79		% Rec
2-FLUOROBIPHENYL	97		% Rec
2,4,6-TRIBROMOPHENOL	81		% Rec
TERPHENYL-D14	89		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 4725.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	25-JAN-92	A246293
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 24-JAN-92 15:05

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-103-0192
DESCRIPTION: WELL UMW-103
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	7.0	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 27-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	790	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 27-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	8.4	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	12	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 27-JAN-92 Instrument: GC/FID Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	* 3.6		mg/L

*NOTE: * UNKNOWN HYDROCARBON FRACTION IN THE C-6 TO C-20 BOILING POINT RANGE. ESTIMATED QUANTIFICATION BASED ON DIESEL FUEL STANDARD.*

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.2
Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0
Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	2.9	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2
Analyst: P. ANDERSON Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.27	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038
Analyst: K. RILEY Analysis Date: 29-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	130	50	mg/L
1:10 DILUTION			

PHENOLS DISTILLATION SW846-9065
Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 30-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010
Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 29-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.27	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010
Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M104.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.22	0.010	mg/L

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M108.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M110.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M112.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	1.6	0.025	mg/L

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	1.6	0.010	mg/L

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.035	0.020	mg/L

prep blank was 0.084 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: E. MERRILL Analysis Date: 29-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-FEB-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 31-JAN-92 Instrument: GC/MS VOA Test: 0502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	88	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	EST 250	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L
TOLUENE	13	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L

.

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 31-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	140	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	EST 7	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	EST 370	10	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	EST 8	10	ug/L
ANTHRACENE	17	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	49	10	ug/L
PHENANTHRENE	67	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	9	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			
2-FLUOROPHENOL	48		% Rec
PHENOL-D5	38		% Rec
NITROBENZENE-D5	101		% Rec
2-FLUOROBIPHENYL	102		% Rec
2,4,6-TRIBROMOPHENOL	92		% Rec
TERPHENYL-D14	96		% Rec

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 03-FEB-92 Instrument: GC/MS SVOA Test: 0501.3. 1

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	50	ug/L
2-CHLOROPHENOL	BDL	50	ug/L
2,4-DICHLOROPHENOL	BDL	50	ug/L
2,4-DIMETHYLPHENOL	BDL	50	ug/L
2-NITROPHENOL	BDL	50	ug/L
4-NITROPHENOL	BDL	250	ug/L
2,4-DINITROPHENOL	BDL	250	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	250	ug/L
PENTACHLOROPHENOL	BDL	250	ug/L
PHENOL	BDL	50	ug/L
ACENAPHTHENE	160	50	ug/L
BENZIDINE	BDL	100	ug/L
1,2,4-TRICHLOROBENZENE	BDL	50	ug/L
HEXACHLOROBENZENE	BDL	50	ug/L
HEXACHLOROETHANE	BDL	50	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A246293

Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	250	ug/L
PCB AROCHLOR 1221	BDL	250	ug/L
PCB AROCHLOR 1232	BDL	250	ug/L
PCB AROCHLOR 1242	BDL	250	ug/L
PCB AROCHLOR 1248	BDL	250	ug/L
PCB AROCLOR 1254	BDL	250	ug/L
PCB AROCHLOR 1260	BDL	250	ug/L
TOXAPHENE	BDL	250	ug/L
.	BDL		
SURROGATE RECOVERY	BDL		
----------	BDL		
2-FLUOROPHENOL	44		% Rec
PHENOL-D5	29		% Rec
NITROBENZENE-D5	79		% Rec
2-FLUOROBIPHENYL	99		% Rec
2,4,6-TRIBROMOPHENOL	79		% Rec
TERPHENYL-D14	118		% Rec

1:5 DILUTION

Sample Comments

* *See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 4726.

Quality Assurance Officer: _____

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	72		% Rec
TOLUENE-D8	102		% Rec
BROMOFLUOROBENZENE	96		% Rec

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 04-FEB-92 Instrument: GC/MS VOA Test: 0502.3. 1

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	100	ug/L
ACRYLONITRILE	BDL	140	ug/L
BENZENE	83	10	ug/L
BROMOFORM	BDL	10	ug/L
CARBON TETRACHLORIDE	BDL	10	ug/L
CHLOROBENZENE	BDL	10	ug/L
CHLOROETHANE	BDL	20	ug/L
2-CHLOROETHYLVINYLETHER	BDL	20	ug/L
CHLOROFORM	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	10	ug/L
BROMODICHLOROMETHANE	BDL	10	ug/L
1,1-DICHLOROETHANE	BDL	10	ug/L
1,2-DICHLOROETHANE	BDL	10	ug/L
1,1-DICHLOROETHENE	BDL	10	ug/L
1,2-DICHLOROPROPANE	BDL	10	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	10	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	10	ug/L
ETHYLBENZENE	240	10	ug/L
BROMOMETHANE	BDL	20	ug/L
CHLOROMETHANE	BDL	20	ug/L
METHYLENE CHLORIDE	BDL	10	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	10	ug/L
TETRACHLORETHENE	BDL	10	ug/L
TOLUENE	14	10	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	10	ug/L
1,1,1-TRICHLOROETHANE	BDL	10	ug/L
1,1,2-TRICHLOROETHANE	BDL	10	ug/L
TRICHLOROETHENE	BDL	10	ug/L
TRICHLOROFLUOROMETHANE	BDL	10	ug/L
VINYL CHLORIDE	BDL	20	ug/L
.			
SURROGATE RECOVERY			
DICHLOROETHANE-D4	97		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	95		% Rec

1:2 DILUTION

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: G. HUGHS Analysis Date: 28-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	23-JAN-92	A246071
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 21-JAN-92 16:00

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-105-0192
DESCRIPTION: WELL UMW-105
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL | Analysis Date: 23-JAN-92 | Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	7.1	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY | Analysis Date: 23-JAN-92 | Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	840	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT | Analysis Date: 23-JAN-92 | Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	9.4	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER | Analysis Date: 24-JAN-92 | Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	28	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN | Analysis Date: 31-JAN-92 | Instrument: GC/FID | Test: O409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT | Analysis Date: 28-JAN-92 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.2
Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0
Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	BDL	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2
Analyst: P. ANDERSON Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	5.9	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038
Analyst: K. RILEY Analysis Date: 26-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	190	50	mg/L

1:10 DILUTION

PHENOLS DISTILLATION SW846-9065
Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 28-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010
Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.06	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010
Analyst: J. VANSKYOCK Analysis Date: 28-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.059	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	0.054	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	BDL	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.045	0.020	mg/L

prep blank was 0.041 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 29-JAN-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: O502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	89		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	95		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: N. ROHADFOX Analysis Date: 28-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 30-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	66		% Rec
PHENOL-D5	47		% Rec
NITROBENZENE-D5	85		% Rec
2-FLUOROBIPHENYL	78		% Rec
2,4,6-TRIBROMOPHENOL	90		% Rec
TERPHENYL-D14	96		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 4074.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	23-JAN-92	A246069
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 21-JAN-92 14:43

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-106-0192
DESCRIPTION: WELL UMW-106
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 23-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	6.6	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 23-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	2200	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 23-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	9.5	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 24-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	65	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 26-JAN-92 Instrument: GC/FID Test: O409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.2

Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.2	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2

Analyst: P. ANDERSON Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.34	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038

Analyst: K. RILEY Analysis Date: 26-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	290	125	mg/L

1:25 DILUTION

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 28-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0

Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.29	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 28-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A246069

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.060	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	0.15	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	0.36	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.090	0.020	mg/L

prep blank was 0.041 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 29-JAN-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: O502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	84		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	98		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: R. BRANCH Analysis Date: 26-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 30-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	56		% Rec
PHENOL-D5	36		% Rec
NITROBENZENE-D5	92		% Rec
2-FLUOROBIPHENYL	94		% Rec
2,4,6-TRIBROMOPHENOL	96		% Rec
TERPHENYL-D14	103		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 4072.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	25-JAN-92	A246295
	Complete 06-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 07-FEB-92	Sampled 23-JAN-92 10:45

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-107-0192
DESCRIPTION: WELL UMW-107
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL — Analysis Date: 25-JAN-92 — Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	7.4	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY — Analysis Date: 27-JAN-92 — Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	940	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT — Analysis Date: 27-JAN-92 — Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	6.4	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER — Analysis Date: 27-JAN-92 — Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	80	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN — Analysis Date: 27-JAN-92 — Instrument: GC/FID — Test: O409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT — Analysis Date: 28-JAN-92 — Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.2

Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	44	1.0	mg/L
1:10 DILUTION			

NITRATE-NITRITE NITROGEN EPA 353.2

Analyst: P. ANDERSON Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.32	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038

Analyst: K. RILEY Analysis Date: 29-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	5	mg/L

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 30-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	0.14	0.01	mg/L

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 29-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0

Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	1.1	0.05	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M104.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.32	0.010	mg/L

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M108.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M110.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M112.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	0.45	0.025	mg/L

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	0.66	0.010	mg/L

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.042	0.020	mg/L

prep blank was 0.084 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: E. MERRILL Analysis Date: 29-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WAINESS Analysis Date: 04-FEB-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 31-JAN-92 Instrument: GC/MS VOA Test: 0502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	EST 1200	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	60	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L
TOLUENE	30	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L

.

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			

DICHLOROETHANE-D4	72		% Rec
TOLUENE-D8	99		% Rec
BROMOFLUOROBENZENE	92		% Rec

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 04-FEB-92 Instrument: GC/MS VOA Test: 0502.3. 1

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	2500	ug/L
ACRYLONITRILE	BDL	3500	ug/L
BENZENE	4800	250	ug/L
BROMOFORM	BDL	250	ug/L
CARBON TETRACHLORIDE	BDL	250	ug/L
CHLOROBENZENE	BDL	250	ug/L
CHLOROETHANE	BDL	500	ug/L
2-CHLOROETHYLVINYLETHER	BDL	500	ug/L
CHLOROFORM	BDL	250	ug/L
DIBROMOCHLOROMETHANE	BDL	250	ug/L
BROMODICHLOROMETHANE	BDL	250	ug/L
1,1-DICHLOROETHANE	BDL	250	ug/L
1,2-DICHLOROETHANE	BDL	250	ug/L
1,1-DICHLOROETHENE	BDL	250	ug/L
1,2-DICHLOROPROPANE	BDL	250	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	250	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	250	ug/L
ETHYLBENZENE	BDL	250	ug/L
BROMOMETHANE	BDL	500	ug/L
CHLOROMETHANE	BDL	500	ug/L
METHYLENE CHLORIDE	BDL	250	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	250	ug/L
TETRACHLORETHENE	BDL	250	ug/L
TOLUENE	BDL	250	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	250	ug/L
1,1,1-TRICHLOROETHANE	BDL	250	ug/L
1,1,2-TRICHLOROETHANE	BDL	250	ug/L
TRICHLOROETHENE	BDL	250	ug/L
TRICHLOROFLUOROMETHANE	BDL	250	ug/L
VINYL CHLORIDE	BDL	500	ug/L
.	BDL		
SURROGATE RECOVERY	BDL		
----------	BDL		
DICHLOROETHANE-D4	93		% Rec
TOLUENE-D8	97		% Rec
BROMOFLUOROBENZENE	90		% Rec

1:50 DILUTION

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: G. HUGHS Analysis Date: 29-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 31-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	59	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	63	10	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	65		% Rec
PHENOL-D5	53		% Rec
NITROBENZENE-D5	88		% Rec
2-FLUOROBIPHENYL	85		% Rec
2,4,6-TRIBROMOPHENOL	94		% Rec
TERPHENYL-D14	95		% Rec

Sample Comments

BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 4734.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	23-JAN-92	A246066
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 21-JAN-92 17:00

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-108-0192
DESCRIPTION: WELL UMW-108
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 23-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	6.7	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 23-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1100	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 23-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	7.7	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 24-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	46	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 31-JAN-92 Instrument: GC/FID Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	2.0	mg/L

1:2 DILUTION

AMMONIA DISTILLATION EPA 350.2
Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0
Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.4	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2
Analyst: P. ANDERSON Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.38	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038
Analyst: K. RILEY Analysis Date: 26-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	80	25	mg/L

1:5 DILUTION

PHENOLS DISTILLATION SW846-9065
Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 28-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010
Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.07	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010
Analyst: J. VANSKYOCK Analysis Date: 28-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.26	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	0.054	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	1.6	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.046	0.020	mg/L

prep blank was 0.041 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 29-JAN-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: 0502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	82		% Rec
TOLUENE-D8	93		% Rec
BROMOFLUOROBENZENE	92		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: R. BRANCH Analysis Date: 24-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 29-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	33		% Rec
PHENOL-D5	18		% Rec
NITROBENZENE-D5	93		% Rec
2-FLUOROBIPHENYL	89		% Rec
2,4,6-TRIBROMOPHENOL	94		% Rec
TERPHENYL-D14	100		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 4068.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	23-JAN-92	A246067
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 21-JAN-92 14:55

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-109-0192
DESCRIPTION: WELL UMW-109
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 23-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	7.3	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 23-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1200	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 23-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	8.1	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 24-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	22	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 31-JAN-92 Instrument: GC/FID Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	2.0	mg/L
1:2 DILUTION			

EMS HERITAGE LABORATORIES, INC.

Lab Sample ID: A246067

AMMONIA DISTILLATION EPA 350.2

Analyst: J. SMITH | Analysis Date: 28-JAN-92 | Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: L. MATTINGLY | Analysis Date: 30-JAN-92 | Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.2	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2

Analyst: P. ANDERSON | Analysis Date: 24-JAN-92 | Instrument: AUTO-ANALYZER | Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	3.2	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038

Analyst: K. RILEY | Analysis Date: 26-JAN-92 | Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	290	125	mg/L

1:25 DILUTION

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN | Analysis Date: 27-JAN-92 | Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN | Analysis Date: 28-JAN-92 | Instrument: AUTO-ANALYZER | Test: O405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN | Analysis Date: 27-JAN-92 | Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN | Analysis Date: 27-JAN-92 | Instrument: AUTO-ANALYZER | Test: G101.4. 0

Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	0.16	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK | Analysis Date: 28-JAN-92 | Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.13	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	0.11	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	BDL	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.096	0.020	mg/L

prep blank was 0.041 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 29-JAN-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: O502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	79		% Rec
TOLUENE-D8	96		% Rec
BROMOFLUOROBENZENE	97		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: R. BRANCH Analysis Date: 24-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 29-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	52		% Rec
PHENOL-D5	37		% Rec
NITROBENZENE-D5	82		% Rec
2-FLUOROBIPHENYL	82		% Rec
2,4,6-TRIBROMOPHENOL	77		% Rec
TERPHENYL-D14	105		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 4069.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	27-JAN-92	638	A246319
	Complete 11-FEB-92	PO Number P0099698	
	Printed 10-FEB-93	Sampled 25-JAN-92 08:30	

Report To

KATHLEEN A. BLAINE
JOHN MATHES AND ASSOCIATES
210 WEST SAND BANK ROAD
P.O. BOX 330
COLUMBIA, IL 62236-0330

Bill To

ACCOUNTS PAYABLE
ILLINOIS POWER COMPANY
P.O. BOX 511
DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-110-0192
DESCRIPTION: WELL # UMW-110
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: A. HILSCHER Analysis Date: 27-JAN-92 Test: G607.5.0

Parameter	Result	Det. Limit	Units
PH	6.3	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 27-JAN-92 Test: G604.4.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1000	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 27-JAN-92 Test: G800.0.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	9.6	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 28-JAN-92 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	50	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015(MOD)

Analyst: N. HEMMERLEIN Analysis Date: 30-JAN-92 Instrument: GC/FID Test: 0409.1.0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
UNKNOWN HYDROCARBON	* 11		mg/L

*NOTE: * UNKNOWN MULTICOMPONENT FRACTION IN THE C-6 TO C-20 BOILING POINT RANGE. ESTIMATED QUANTIFICATION BASED ON DIESEL FUEL STANDARD.*

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4.0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.2

Analyst: L. MATTINGLY Analysis Date: 29-JAN-92 Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: L. MATTINGLY Analysis Date: 31-JAN-92 Test: G203.4.0

Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	4.4	0.10	mg/L

NITROGEN, NITRATE-NITRITE EPA 353.2

Analyst: P. ANDERSON Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3.0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.21	0.01	mg/L

SULFATE (TURBIDIMETRIC) SW846-9038

Analyst: K. RILEY Analysis Date: 29-JAN-92 Test: G108.6.0

Parameter	Result	Det. Limit	Units
SULFATE	360	125	mg/L
1:25 DILUTION			

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 29-JAN-92 Test: P405.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 30-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7.0

Prep: PHENOLS DISTILLATION SW846-9065 P405.7.0

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 29-JAN-92 Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 29-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010 P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	0.62	0.02	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 05-FEB-92 Test: P130.5.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
BARIUM	0.12	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 06-FEB-92 Instrument: ICP Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
IRON	0.77	0.025	mg/L

LEAD ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
MANGANESE	4.4	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010 P130.5.0

Parameter	Result	Det. Limit	Units
ZINC	0.050	0.020	mg/L

prep blank was 0.052 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: E. MERRILL Analysis Date: 30-JAN-92 Test: P130.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: M. BAUER Analysis Date: 07-FEB-92 Instrument: GFAA Test: M103.2.0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020 P130.6.0

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 30-JAN-92 Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 30-JAN-92 Instrument: CVAA Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470 P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 04-FEB-92 Instrument: GC/MS VOA Test: 0502.3.0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	120	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	EST 250	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
TOLUENE	8	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	99		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	98		% Rec

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 05-FEB-92 Instrument: GC/MS VOA Test: 0502.3.1

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	100	ug/L
ACRYLONITRILE	BDL	140	ug/L
BENZENE	120	10	ug/L
BROMOFORM	BDL	10	ug/L
CARBON TETRACHLORIDE	BDL	10	ug/L
CHLOROBENZENE	BDL	10	ug/L
CHLOROETHANE	BDL	20	ug/L
2-CHLOROETHYLVINYLETHER	BDL	20	ug/L
CHLOROFORM	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	10	ug/L
BROMODICHLOROMETHANE	BDL	10	ug/L
1,1-DICHLOROETHANE	BDL	10	ug/L
1,2-DICHLOROETHANE	BDL	10	ug/L
1,1-DICHLOROETHENE	BDL	10	ug/L
1,2-DICHLOROPROPANE	BDL	10	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	10	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	10	ug/L
ETHYLBENZENE	210	10	ug/L
BROMOMETHANE	BDL	20	ug/L
CHLOROMETHANE	BDL	20	ug/L
METHYLENE CHLORIDE	BDL	10	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	10	ug/L
TETRACHLORETHENE	BDL	10	ug/L
TOLUENE	BDL	10	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	10	ug/L
1,1,1-TRICHLOROETHANE	BDL	10	ug/L
1,1,2-TRICHLOROETHANE	BDL	10	ug/L
TRICHLOROETHENE	BDL	10	ug/L
TRICHLOROFLUOROMETHANE	BDL	10	ug/L
VINYL CHLORIDE	BDL	20	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	95		% Rec
TOLUENE-D8	85		% Rec
BROMOFLUOROBENZENE	82		% Rec

1:2 DILUTION

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: G. HUGHS Analysis Date: 29-JAN-92 Test: P243.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 04-FEB-92 Instrument: GC/MS SVOA Test: 0501.3.0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625 P243.1.0

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	64	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	EST 2600	10	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
ACENAPHTHYLENE	100	10	ug/L
ANTHRACENE	14	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	49	10	ug/L
PHENANTHRENE	57	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	33		% Rec
PHENOL-D5	23		% Rec
NITROBENZENE-D5	235		% Rec
2-FLUOROBIPHENYL	79		% Rec
2,4,6-TRIBROMOPHENOL	104		% Rec
TERPHENYL-D14	87		% Rec

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 04-FEB-92 Instrument: GC/MS SVOA Test: 0501.3.1

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625 P243.1.0

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	500	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	500	ug/L
2-CHLOROPHENOL	BDL	500	ug/L
2,4-DICHLOROPHENOL	BDL	500	ug/L
2,4-DIMETHYLPHENOL	BDL	500	ug/L
2-NITROPHENOL	BDL	500	ug/L
4-NITROPHENOL	BDL	2500	ug/L
2,4-DINITROPHENOL	BDL	2500	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	2500	ug/L
PENTACHLOROPHENOL	BDL	2500	ug/L

Parameter	Result	Det. Limit	Units
PHENOL	BDL	500	ug/L
ACENAPHTHENE	BDL	500	ug/L
BENZIDINE	BDL	1000	ug/L
1,2,4-TRICHLOROBENZENE	BDL	500	ug/L
HEXACHLOROBENZENE	BDL	500	ug/L
HEXACHLOROETHANE	BDL	500	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	500	ug/L
2-CHLORONAPHTHALENE	BDL	500	ug/L
1,2-DICHLOROBENZENE	BDL	500	ug/L
1,3-DICHLOROBENZENE	BDL	500	ug/L
1,4-DICHLOROBENZENE	BDL	500	ug/L
3,3'-DICHLOROBENZIDINE	BDL	1000	ug/L
2,4-DINITROTOLUENE	BDL	500	ug/L
2,6-DINITROTOLUENE	BDL	500	ug/L
FLUORANTHENE	BDL	500	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	500	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	500	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	500	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	500	ug/L
HEXACHLOROBUTADIENE	BDL	500	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	500	ug/L
ISOPHORONE	BDL	500	ug/L
NAPHTHALENE	1900	500	ug/L
NITROBENZENE	BDL	500	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	500	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	500	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	500	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	500	ug/L
BENZYLBUTYLPHTHALATE	BDL	500	ug/L
DI-N-BUTYLPHTHALATE	BDL	500	ug/L
DI-N-OCTYLPHTHALATE	BDL	500	ug/L
DIETHYLPHTHALATE	BDL	500	ug/L
DIMETHYLPHTHALATE	BDL	500	ug/L
BENZ(A)ANTHRACENE	BDL	500	ug/L
BENZO(A)PYRENE	BDL	500	ug/L
BENZO(B)FLUORANTHENE	BDL	500	ug/L
BENZO(K)FLUORANTHENE	BDL	500	ug/L
CHRYSENE	BDL	500	ug/L
ACENAPHTHYLENE	BDL	500	ug/L
ANTHRACENE	BDL	500	ug/L
BENZO(G,H,I)PERYLENE	BDL	500	ug/L
FLUORENE	BDL	500	ug/L
PHENANTHRENE	BDL	500	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	500	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	500	ug/L
PYRENE	BDL	500	ug/L
ALDRIN	BDL	500	ug/L
DIELDRIN	BDL	500	ug/L
CHLORDANE	BDL	2500	ug/L
4,4'-DDD	BDL	500	ug/L
4,4'-DDE	BDL	500	ug/L
4,4'-DDT	BDL	500	ug/L
ALPHA-ENDOSULFAN	BDL	500	ug/L
BETA-ENDOSULFAN	BDL	500	ug/L
ENDOSULFAN SULFATE	BDL	500	ug/L
ENDRIN	BDL	500	ug/L
ENDRIN ALDEHYDE	BDL	500	ug/L

Parameter	Result	Det. Limit	Units
HEPTACHLOR	BDL	500	ug/L
HEPTACHLOR EPOXIDE	BDL	500	ug/L
ALPHA-BHC	BDL	500	ug/L
BETA-BHC	BDL	500	ug/L
DELTA-BHC	BDL	500	ug/L
GAMMA-BHC (LINDANE)	BDL	500	ug/L
PCB AROCHLOR 1016	BDL	2500	ug/L
PCB AROCHLOR 1221	BDL	2500	ug/L
PCB AROCHLOR 1232	BDL	2500	ug/L
PCB AROCHLOR 1242	BDL	2500	ug/L
PCB AROCHLOR 1248	BDL	2500	ug/L
PCB AROCLOR 1254	BDL	2500	ug/L
PCB AROCHLOR 1260	BDL	2500	ug/L
TOXAPHENE	BDL	2500	ug/L
.	BDL		
SURROGATE RECOVERY	BDL		
----------	BDL		
2-FLUOROPHENOL	**		% Rec
PHENOL-D5	**		% Rec
NITROBENZENE-D5	**		% Rec
2-FLUOROBIPHENYL	**		% Rec
2,4,6-TRIBROMOPHENOL	**		% Rec
TERPHENYL-D14	**		% Rec

*** DILUTED OUT*
1:50 DILUTION

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
BDL Below Detection Limit
EST Estimated Value

Sample chain of custody number 4730.

IDEM Drinking Water Certification Number C-49-01
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500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

WILLIAM WITTS, ILLINOIS POWER COMPANY
500 SOUTH 27TH STREET P.O. BOX 511, DECATUR, IL 62525

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	23-JAN-92	A246070
	Complete 05-FEB-92	PO Number P0072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 21-JAN-92 15:50

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-111-0192
DESCRIPTION: WELL UMW-111
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL — Analysis Date: 23-JAN-92 — Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	7.0	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY — Analysis Date: 23-JAN-92 — Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1400	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT — Analysis Date: 23-JAN-92 — Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	9.8	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER — Analysis Date: 24-JAN-92 — Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	61	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN — Analysis Date: 26-JAN-92 — Instrument: GC/FID — Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT — Analysis Date: 28-JAN-92 — Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A246070

AMMONIA DISTILLATION EPA 350.2

Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	BDL	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2

Analyst: P. ANDERSON Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	2.7	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038

Analyst: K. RILEY Analysis Date: 26-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	94	25	mg/L

1:5 DILUTION

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 28-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0

Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 28-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

EMS HERITAGE LABORATORIES, INC.

Lab Sample ID: A246070

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.099	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	0.023	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	0.046	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	0.017	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.059	0.020	mg/L

prep blank was 0.041 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 29-JAN-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: O502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	89		% Rec
TOLUENE-D8	93		% Rec
BROMOFLUOROBENZENE	95		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: N. ROHADFOX Analysis Date: 28-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 30-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	64		% Rec
PHENOL-D5	45		% Rec
NITROBENZENE-D5	85		% Rec
2-FLUOROBIPHENYL	83		% Rec
2,4,6-TRIBROMOPHENOL	85		% Rec
TERPHENYL-D14	95		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 4073.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	23-JAN-92	A246072
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 21-JAN-92 17:35

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-112-0192
DESCRIPTION: WELL UMW-112
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 23-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	6.6	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 23-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	980	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 23-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	8.5	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 24-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	26	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 26-JAN-92 Instrument: GC/FID Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	2.0	mg/L

AMMONIA DISTILLATION EPA 350.2

Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.2	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2

Analyst: P. ANDERSON Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.55	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038

Analyst: K. RILEY Analysis Date: 26-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	140	50	mg/L
1:10 DILUTION			

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 28-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0

Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 28-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.12	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	0.029	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	0.19	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.045	0.020	mg/L

prep blank was 0.041 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 29-JAN-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: 0502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Lab Sample ID: A246072

Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	85		% Rec
TOLUENE-D8	100		% Rec
BROMOFLUOROBENZENE	94		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: G. HUGHS Analysis Date: 28-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 30-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	10	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	10	ug/L
4,4'-DDD	BDL	50	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	58		% Rec
PHENOL-D5	43		% Rec
NITROBENZENE-D5	85		% Rec
2-FLUOROBIPHENYL	84		% Rec
2,4,6-TRIBROMOPHENOL	69		% Rec
TERPHENYL-D14	101		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 4075.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	25-JAN-92	A246296
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 23-JAN-92 11:45

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-113-0192
DESCRIPTION: WELL UMW-113
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	6.9	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 27-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	990	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 27-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	8.2	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 27-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	47	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 02-FEB-92 Instrument: GC/FID Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

AMMONIA DISTILLATION EPA 350.2

Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	7.5	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2

Analyst: P. ANDERSON Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.40	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038

Analyst: K. RILEY Analysis Date: 29-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	160	50	mg/L

1:10 DILUTION

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 30-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 29-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0

Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	1.5	0.05	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: E. MERRILL Analysis Date: 29-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-FEB-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 04-FEB-92 Instrument: GC/MS VOA Test: 0502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L

.

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	104		% Rec
TOLUENE-D8	97		% Rec
BROMOFLUOROBENZENE	92		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: G. HUGHS Analysis Date: 29-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 31-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	EST 6	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L

Sample Comments

Sample chain of custody number 4735.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	25-JAN-92	A246300
	Complete 07-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 08-FEB-92	Sampled 23-JAN-92 13:15

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-114-0192
DESCRIPTION: WELL UMW-114
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	7.2	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 27-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1100	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 27-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	8.8	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 29-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	200	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 28-JAN-92 Instrument: GC/FID Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	* 10		mg/L

*NOTE: * UNKNOWN HYDROCARBON FRACTION IN THE C-6 TO C-20 BOILING POINT RANGE. ESTIMATED QUANTIFICATION BASED ON DIESEL FUEL STANDARD.*

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	2.0	mg/L

1:2 DILUTION

AMMONIA DISTILLATION EPA 350.2
Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0
Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	14	1.0	mg/L

1:10 DILUTION

NITRATE-NITRITE NITROGEN EPA 353.2
Analyst: P. ANDERSON Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.39	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038
Analyst: K. RILEY Analysis Date: 29-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	29	25	mg/L

1:5 DILUTION

PHENOLS DISTILLATION SW846-9065
Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 30-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010
Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 29-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	3.6	0.25	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 05-FEB-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.48	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 06-FEB-92 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	1.3	0.025	mg/L

LEAD ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	0.70	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	0.023	0.010	mg/L

ZINC ICP SW846-6010

Analyst: A. HILSCHER Analysis Date: 05-FEB-92 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.058	0.020	mg/L

prep blank was 0.052 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: E. MERRILL Analysis Date: 29-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-FEB-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 31-JAN-92 Instrument: GC/MS VOA Test: 0502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	EST 940	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	EST 1800	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
TOLUENE	EST 320	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	70		% Rec
TOLUENE-D8	95		% Rec
BROMOFLUOROBENZENE	96		% Rec

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 05-FEB-92 Instrument: GC/MS VOA Test: 0502.3. 1

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	1000	ug/L
ACRYLONITRILE	BDL	1400	ug/L
BENZENE	3300	100	ug/L
BROMOFORM	BDL	100	ug/L
CARBON TETRACHLORIDE	BDL	100	ug/L
CHLOROBENZENE	BDL	100	ug/L
CHLOROETHANE	BDL	200	ug/L
2-CHLOROETHYLVINYLETHER	BDL	200	ug/L
CHLOROFORM	BDL	100	ug/L
DIBROMOCHLOROMETHANE	BDL	100	ug/L
BROMODICHLOROMETHANE	BDL	100	ug/L
1,1-DICHLOROETHANE	BDL	100	ug/L
1,2-DICHLOROETHANE	BDL	100	ug/L
1,1-DICHLOROETHENE	BDL	100	ug/L
1,2-DICHLOROPROPANE	BDL	100	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	100	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	100	ug/L
ETHYLBENZENE	1800	100	ug/L
BROMOMETHANE	BDL	200	ug/L
CHLOROMETHANE	BDL	200	ug/L
METHYLENE CHLORIDE	BDL	100	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	100	ug/L
TETRACHLORETHENE	BDL	100	ug/L
TOLUENE	400	100	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	100	ug/L
1,1,1-TRICHLOROETHANE	BDL	100	ug/L
1,1,2-TRICHLOROETHANE	BDL	100	ug/L
TRICHLOROETHENE	BDL	100	ug/L
TRICHLOROFLUOROMETHANE	BDL	100	ug/L
VINYL CHLORIDE	BDL	200	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	94		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	101		% Rec

1:20 DILUTION

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: G. HUGHS Analysis Date: 29-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 31-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	73	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	EST 8	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	EST 4400	10	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
ACENAPHTHYLENE	58	10	ug/L
ANTHRACENE	13	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	36	10	ug/L
PHENANTHRENE	53	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	EST 9	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	52		% Rec
PHENOL-D5	48		% Rec
NITROBENZENE-D5	205		% Rec
2-FLUOROBIPHENYL	96		% Rec
2,4,6-TRIBROMOPHENOL	119		% Rec
TERPHENYL-D14	91		% Rec

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 03-FEB-92 Instrument: GC/MS SVOA Test: 0501.3. 1

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	500	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	500	ug/L
2-CHLOROPHENOL	BDL	500	ug/L
2,4-DICHLOROPHENOL	BDL	500	ug/L
2,4-DIMETHYLPHENOL	BDL	500	ug/L
2-NITROPHENOL	BDL	500	ug/L
4-NITROPHENOL	BDL	2500	ug/L
2,4-DINITROPHENOL	BDL	2500	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	2500	ug/L
PENTACHLOROPHENOL	BDL	2500	ug/L

Parameter	Result	Det. Limit	Units
PHENOL	BDL	500	ug/L
ACENAPHTHENE	BDL	500	ug/L
BENZIDINE	BDL	1000	ug/L
1,2,4-TRICHLOROBENZENE	BDL	500	ug/L
HEXACHLOROBENZENE	BDL	500	ug/L
HEXACHLOROETHANE	BDL	500	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	500	ug/L
2-CHLORONAPHTHALENE	BDL	500	ug/L
1,2-DICHLOROBENZENE	BDL	500	ug/L
1,3-DICHLOROBENZENE	BDL	500	ug/L
1,4-DICHLOROBENZENE	BDL	500	ug/L
3,3'-DICHLOROBENZIDINE	BDL	1000	ug/L
2,4-DINITROTOLUENE	BDL	500	ug/L
2,6-DINITROTOLUENE	BDL	500	ug/L
FLUORANTHENE	BDL	500	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	500	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	500	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	500	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	500	ug/L
HEXACHLOROBUTADIENE	BDL	500	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	500	ug/L
ISOPHORONE	BDL	500	ug/L
NAPHTHALENE	6300	500	ug/L
NITROBENZENE	BDL	500	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	500	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	500	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	500	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	500	ug/L
BENZYLBUTYLPHTHALATE	BDL	500	ug/L
DI-N-BUTYLPHTHALATE	BDL	500	ug/L
DI-N-OCTYLPHTHALATE	BDL	500	ug/L
DIETHYLPHTHALATE	BDL	500	ug/L
DIMETHYLPHTHALATE	BDL	500	ug/L
BENZ(A)ANTHRACENE	BDL	500	ug/L
BENZO(A)PYRENE	BDL	500	ug/L
BENZO(B)FLUORANTHENE	BDL	500	ug/L
BENZO(K)FLUORANTHENE	BDL	500	ug/L
CHRYSENE	BDL	500	ug/L
ACENAPHTHYLENE	BDL	500	ug/L
ANTHRACENE	BDL	500	ug/L
BENZO(G,H,I)PERYLENE	BDL	500	ug/L
FLUORENE	BDL	500	ug/L
PHENANTHRENE	BDL	500	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	500	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	500	ug/L
PYRENE	BDL	500	ug/L
ALDRIN	BDL	500	ug/L
DIELDRIN	BDL	500	ug/L
CHLORDANE	BDL	2500	ug/L
4,4'-DDD	BDL	500	ug/L
4,4'-DDE	BDL	500	ug/L
4,4'-DDT	BDL	500	ug/L
ALPHA-ENDOSULFAN	BDL	500	ug/L
BETA-ENDOSULFAN	BDL	500	ug/L
ENDOSULFAN SULFATE	BDL	500	ug/L
ENDRIN	BDL	500	ug/L
ENDRIN ALDEHYDE	BDL	500	ug/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A246300

Parameter	Result	Det. Limit	Units
HEPTACHLOR	BDL	500	ug/L
HEPTACHLOR EPOXIDE	BDL	500	ug/L
ALPHA-BHC	BDL	500	ug/L
BETA-BHC	BDL	500	ug/L
DELTA-BHC	BDL	500	ug/L
GAMMA-BHC (LINDANE)	BDL	500	ug/L
PCB AROCHLOR 1016	BDL	2500	ug/L
PCB AROCHLOR 1221	BDL	2500	ug/L
PCB AROCHLOR 1232	BDL	2500	ug/L
PCB AROCHLOR 1242	BDL	2500	ug/L
PCB AROCHLOR 1248	BDL	2500	ug/L
PCB AROCLOR 1254	BDL	2500	ug/L
PCB AROCHLOR 1260	BDL	2500	ug/L
TOXAPHENE	BDL	2500	ug/L
.	BDL		
SURROGATE RECOVERY	BDL		
----------	BDL		
2-FLUOROPHENOL	**		% Rec
PHENOL-D5	**		% Rec
NITROBENZENE-D5	**		% Rec
2-FLUOROBIPHENYL	**		% Rec
2,4,6-TRIBROMOPHENOL	**		% Rec
TERPHENYL-D14	**		% Rec

1:50 DILUTION
*** DILUTED OUT***

Sample Comments

* *See Note for Parameter*
** *See Note for Parameter*
BDL *Below Detection Limit*
EST *Estimated Value*

Sample chain of custody number 4077.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	25-JAN-92	A246299
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 23-JAN-92 14:00

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-115-0192
DESCRIPTION: WELL UMW-115
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL | Analysis Date: 25-JAN-92 | Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	6.7	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY | Analysis Date: 27-JAN-92 | Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1800	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT | Analysis Date: 27-JAN-92 | Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	8.2	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER | Analysis Date: 28-JAN-92 | Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	88	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN | Analysis Date: 28-JAN-92 | Instrument: GC/FID | Test: O409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT | Analysis Date: 28-JAN-92 | Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	2.0	mg/L

1:2 DILUTION

AMMONIA DISTILLATION EPA 350.2

Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0

Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	22	1.0	mg/L
1:10 DILUTION			

NITRATE-NITRITE NITROGEN EPA 353.2

Analyst: P. ANDERSON Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.30	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038

Analyst: K. RILEY Analysis Date: 29-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	730	250	mg/L
1:50 DILUTION			

PHENOLS DISTILLATION SW846-9065

Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066

Analyst: J. GRIFFIN Analysis Date: 30-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0

Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	0.06	0.01	mg/L

CYANIDE DISTILLATION SW846-9010

Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

Analyst: J. GRIFFIN Analysis Date: 29-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0

Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	1.8	0.10	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

BARIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M104.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.048	0.010	mg/L

CADMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M108.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M110.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M112.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M115.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	8.0	0.025	mg/L

LEAD ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M116.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M119.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	3.8	0.010	mg/L

NICKEL ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	0.030	0.010	mg/L

ZINC ICP SW846-6010
Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M139.3. 0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.034	0.020	mg/L

prep blank was 0.084 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: E. MERRILL Analysis Date: 29-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-FEB-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	0.0055	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 31-JAN-92 Instrument: GC/MS VOA Test: O502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	9	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	7	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L

.

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	73		% Rec
TOLUENE-D8	97		% Rec
BROMOFLUOROBENZENE	92		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: N. ROHADFOX Analysis Date: 29-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 31-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	41		% Rec
PHENOL-D5	28		% Rec
NITROBENZENE-D5	83		% Rec
2-FLUOROBIPHENYL	80		% Rec
2,4,6-TRIBROMOPHENOL	104		% Rec
TERPHENYL-D14	86		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 4076.

Quality Assurance Officer: _____

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	23-JAN-92	A246064
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 21-JAN-92 10:00

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-116-0192
DESCRIPTION: WELL UMW-116
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 23-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	6.9	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 23-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1100	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 23-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	9.6	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 24-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	63	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 31-JAN-92 Instrument: GC/FID Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	2.0	mg/L

1:2 DILUTION

AMMONIA DISTILLATION EPA 350.2
Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0
Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.2	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2
Analyst: P. ANDERSON Analysis Date: 24-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	2.4	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038
Analyst: K. RILEY Analysis Date: 26-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	240	125	mg/L

1:25 DILUTION

PHENOLS DISTILLATION SW846-9065
Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 28-JAN-92 Instrument: AUTO-ANALYZER Test: 0405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010
Analyst: M. GAUGHAN Analysis Date: 27-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010
Analyst: J. VANSKYOCK Analysis Date: 28-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	25		mL
FINAL WEIGHT OR VOLUME	25		mL

BARIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M104.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
BARIUM	0.11	0.010	mg/L

CADMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M108.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M110.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COPPER ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M112.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M115.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
IRON	0.022	0.020	mg/L

LEAD ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M116.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

MANGANESE ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M119.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
MANGANESE	0.30	0.010	mg/L

NICKEL ICP SW846-6010

Analyst: M. JAO Analysis Date: 03-FEB-92 Instrument: ICP Test: M122.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

ZINC ICP SW846-6010

Analyst: M. JAO Analysis Date: 29-JAN-92 Instrument: ICP Test: M139.3. 0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010

Parameter	Result	Det. Limit	Units
ZINC	0.045	0.020	mg/L

prep blank was 0.041 mg/l

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 29-JAN-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	0.0056	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 29-JAN-92 Instrument: GC/MS VOA Test: 0502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L
.			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	83		% Rec
TOLUENE-D8	95		% Rec
BROMOFLUOROBENZENE	97		% Rec

SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Analyst: N. ROHADFOX Analysis Date: 24-JAN-92 Test: P243.1. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Liters
FINAL VOLUME	1		mL

SEMI-VOLATILE PRIORITY POLLUTANTS (BASE/NEUTRAL ACID FRACTIONS) EPA 625

Analyst: J. MINNIEAR, II Analysis Date: 29-JAN-92 Instrument: GC/MS SVOA Test: 0501.3. 0

Prep: SEMI-VOLATILE EXTRACTION (NEUTRAL/BASE/ACID FRACTIONS) EPA 625

Parameter	Result	Det. Limit	Units
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
ACENAPHTHENE	BDL	10	ug/L
BENZIDINE	BDL	20	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIMETHYLAMINE	BDL	10	ug/L
N-NITROSO-DIPROPYLAMINE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	49		% Rec
PHENOL-D5	34		% Rec
NITROBENZENE-D5	82		% Rec
2-FLUOROBIPHENYL	92		% Rec
2,4,6-TRIBROMOPHENOL	75		% Rec
TERPHENYL-D14	99		% Rec

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	25-JAN-92	A246297
	Complete 05-FEB-92	PO Number PO072488-CHAMPAIGN
	Printed 06-FEB-92	Sampled 23-JAN-92 17:20

Report To	Bill To
JOHN MATHES AND ASSOCIATES KATHLEEN A. BLAINE 210 WEST SAND BANK ROAD P.O. BOX 330 COLUMBIA, IL 62236-0330	ILLINOIS POWER COMPANY ACCOUNTS PAYABLE P.O. BOX 511 DECATUR, IL 62525

Sample Description

SAMPLE ID: UMW-401-0192
DESCRIPTION: WELL UMW-401
LOCATION: CHAMPAIGN

PH (AQUEOUS) SW846-9040

Analyst: H. RANDALL Analysis Date: 25-JAN-92 Test: G607.5. 0

Parameter	Result	Det. Limit	Units
PH	7.4	0.1	Std. Units

SPECIFIC CONDUCTANCE SW846-9050

Analyst: L. MATTINGLY Analysis Date: 27-JAN-92 Test: G604.4. 0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	570	1.0	umHOS/cm

DISSOLVED OXYGEN EPA 360.1

Analyst: K. BLAHUT Analysis Date: 27-JAN-92 Test: G800.0. 0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	8.9	0.1	mg/L

CHEMICAL OXYGEN DEMAND EPA 410.4

Analyst: K. FULLMER Analysis Date: 28-JAN-92 Test: G301.1. 0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	16	10	mg/L

HYDROCARBON SCAN BY GC:FID SW846-8015 MOD

Analyst: N. HEMMERLEIN Analysis Date: 28-JAN-92 Instrument: GC/FID Test: 0409.1. 0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	1.25	mg/L
GASOLINE	BDL	0.25	mg/L
OTHER HYDROCARBONS	BDL		mg/L

SULFIDE SW846-9030

Analyst: K. BLAHUT Analysis Date: 28-JAN-92 Test: G110.4. 0

Parameter	Result	Det. Limit	Units
SULFIDE	BDL	1.0	mg/L

EMS HERITAGE LABORATORIES, INC. Lab Sample ID: A246297

AMMONIA DISTILLATION EPA 350.2
Analyst: J. SMITH Analysis Date: 28-JAN-92 Test: P203.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3
Analyst: L. MATTINGLY Analysis Date: 30-JAN-92 Test: G203.4. 0
Prep: AMMONIA DISTILLATION EPA 350.2

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	3.1	0.10	mg/L

NITRATE-NITRITE NITROGEN EPA 353.2
Analyst: P. ANDERSON Analysis Date: 27-JAN-92 Instrument: AUTO-ANALYZER Test: G113.3. 0

Parameter	Result	Det. Limit	Units
NITROGEN, NITRATE-NITRITE	0.45	0.01	mg/L

SULFATE TURBIDIMETRIC METHOD SW846-9038
Analyst: K. RILEY Analysis Date: 29-JAN-92 Test: G108.6. 0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	5	mg/L

PHENOLS DISTILLATION SW846-9065
Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P405.7. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

PHENOLS 4AAP (AUTOMATED) SW846-9066
Analyst: J. GRIFFIN Analysis Date: 30-JAN-92 Instrument: AUTO-ANALYZER Test: O405.7. 0
Prep: PHENOLS DISTILLATION SW846-9065

Parameter	Result	Det. Limit	Units
PHENOLS	BDL	0.01	mg/L

CYANIDE DISTILLATION SW846-9010
Analyst: M. GAUGHAN Analysis Date: 28-JAN-92 Test: P101.4. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: J. GRIFFIN Analysis Date: 29-JAN-92 Instrument: AUTO-ANALYZER Test: G101.4. 0
Prep: CYANIDE DISTILLATION SW846-9010

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.01	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3010
Analyst: J. VANSKYOCK Analysis Date: 31-JAN-92 Test: P130.5. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Analyst: E. MERRILL Analysis Date: 29-JAN-92 Test: P130.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 04-FEB-92 Instrument: GFAA Test: M103.2. 0

Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: P. SIMS Analysis Date: 27-JAN-92 Test: P131.6. 0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7470

Analyst: P. SIMS Analysis Date: 28-JAN-92 Instrument: CVAA Test: M120.1. 0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0005	mg/L

VOLATILE PRIORITY POLLUTANTS EPA 624

Analyst: T. WIEGAND Analysis Date: 31-JAN-92 Instrument: GC/MS VOA Test: O502.3. 0

Parameter	Result	Det. Limit	Units
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
2-CHLOROETHYLVINYLETHER	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYLBENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CHLOROMETHANE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLORETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	10	ug/L

.

EMS HERITAGE LABORATORIES, INC. **Lab Sample ID: A246297**

Parameter	Result	Det. Limit	Units
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
PYRENE	BDL	10	ug/L
ALDRIN	BDL	10	ug/L
DIELDRIN	BDL	10	ug/L
CHLORDANE	BDL	50	ug/L
4,4'-DDD	BDL	10	ug/L
4,4'-DDE	BDL	10	ug/L
4,4'-DDT	BDL	10	ug/L
ALPHA-ENDOSULFAN	BDL	10	ug/L
BETA-ENDOSULFAN	BDL	10	ug/L
ENDOSULFAN SULFATE	BDL	10	ug/L
ENDRIN	BDL	10	ug/L
ENDRIN ALDEHYDE	BDL	10	ug/L
HEPTACHLOR	BDL	10	ug/L
HEPTACHLOR EPOXIDE	BDL	10	ug/L
ALPHA-BHC	BDL	10	ug/L
BETA-BHC	BDL	10	ug/L
DELTA-BHC	BDL	10	ug/L
GAMMA-BHC (LINDANE)	BDL	10	ug/L
PCB AROCHLOR 1016	BDL	50	ug/L
PCB AROCHLOR 1221	BDL	50	ug/L
PCB AROCHLOR 1232	BDL	50	ug/L
PCB AROCHLOR 1242	BDL	50	ug/L
PCB AROCHLOR 1248	BDL	50	ug/L
PCB AROCLOR 1254	BDL	50	ug/L
PCB AROCHLOR 1260	BDL	50	ug/L
TOXAPHENE	BDL	50	ug/L
.			
SURROGATE RECOVERY			

2-FLUOROPHENOL	58		% Rec
PHENOL-D5	46		% Rec
NITROBENZENE-D5	89		% Rec
2-FLUOROBIPHENYL	93		% Rec
2,4,6-TRIBROMOPHENOL	82		% Rec
TERPHENYL-D14	102		% Rec

Sample Comments

BDL Below Detection Limit

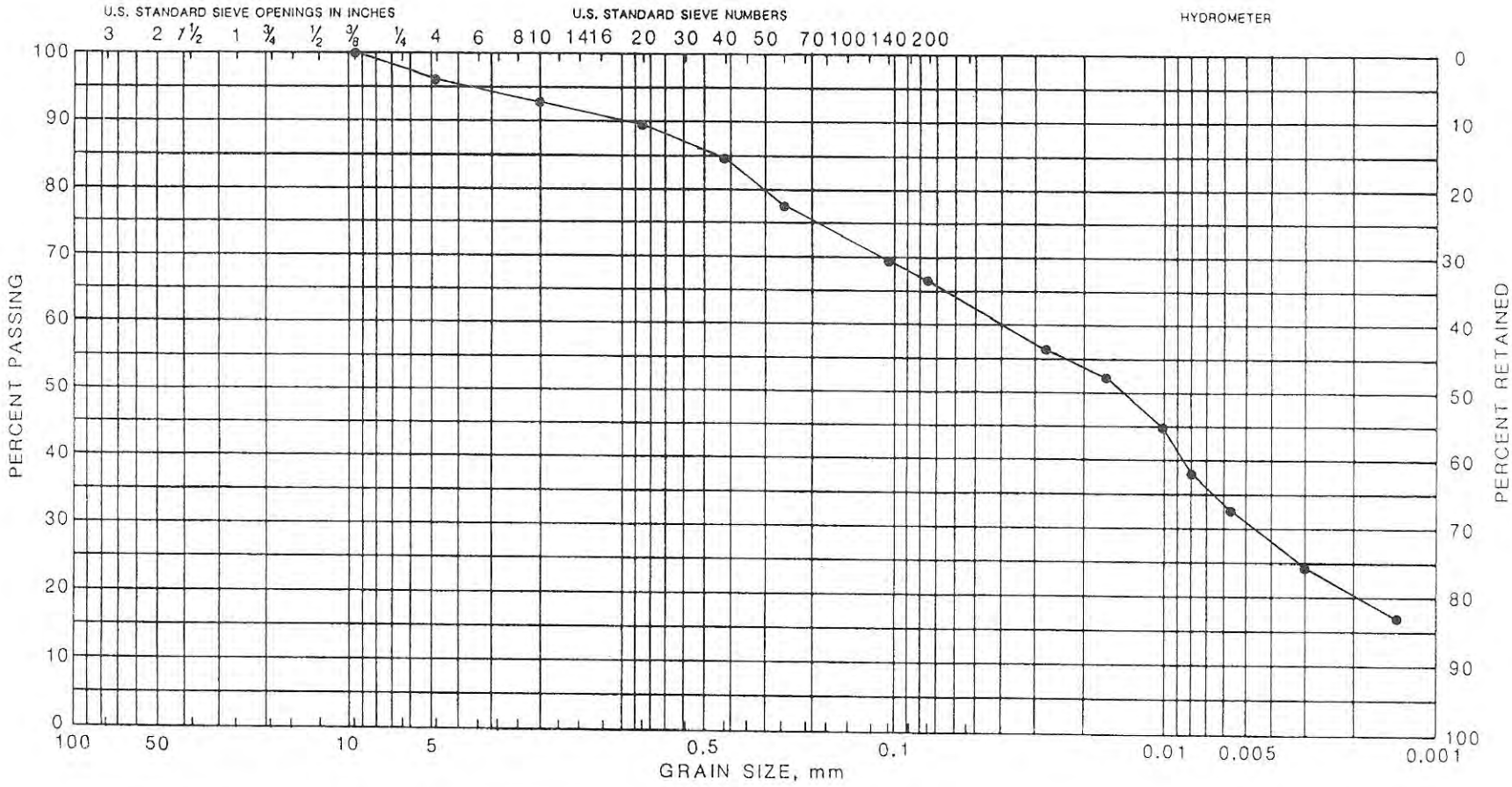
Sample chain of custody number 4736.

Quality Assurance Officer: _____

APPENDIX G

Physical Testing Laboratory Data

PARTICLE SIZE ANALYSIS



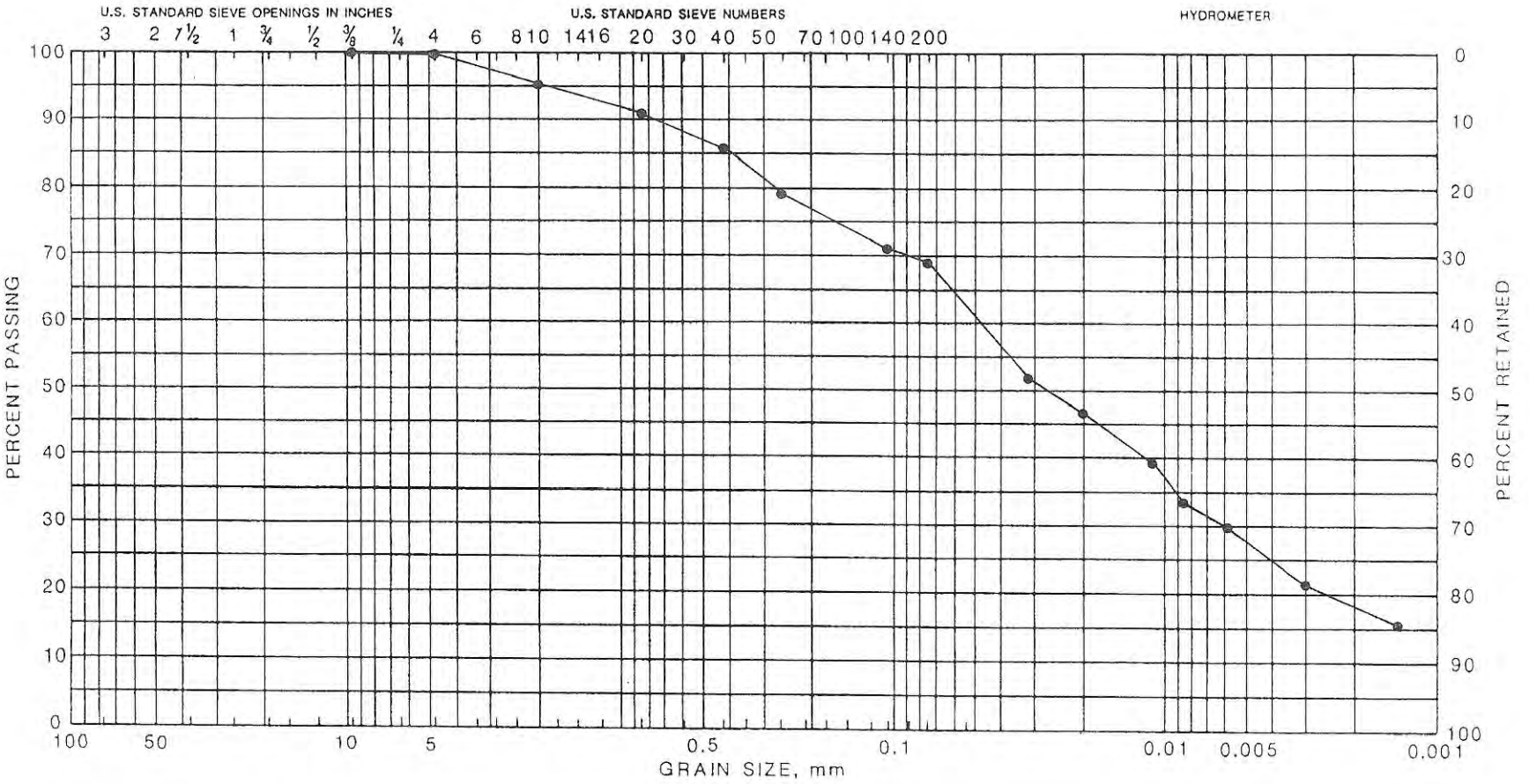
GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

JOB NO. 122765 PROJECT ILLINOIS POWER - CHAMPAIGN, ILLINOIS

CURVE	BORING	SAMPLE	DEPTH,Ft.	DESCRIPTION
1	UTB-02	S-4, J-3	14.5-15.0	Gray Sandy CLAY Trace Gravel, CL

LIQUID LIMIT = 21
PLATIC LIMIT = 12

PARTICLE SIZE ANALYSIS



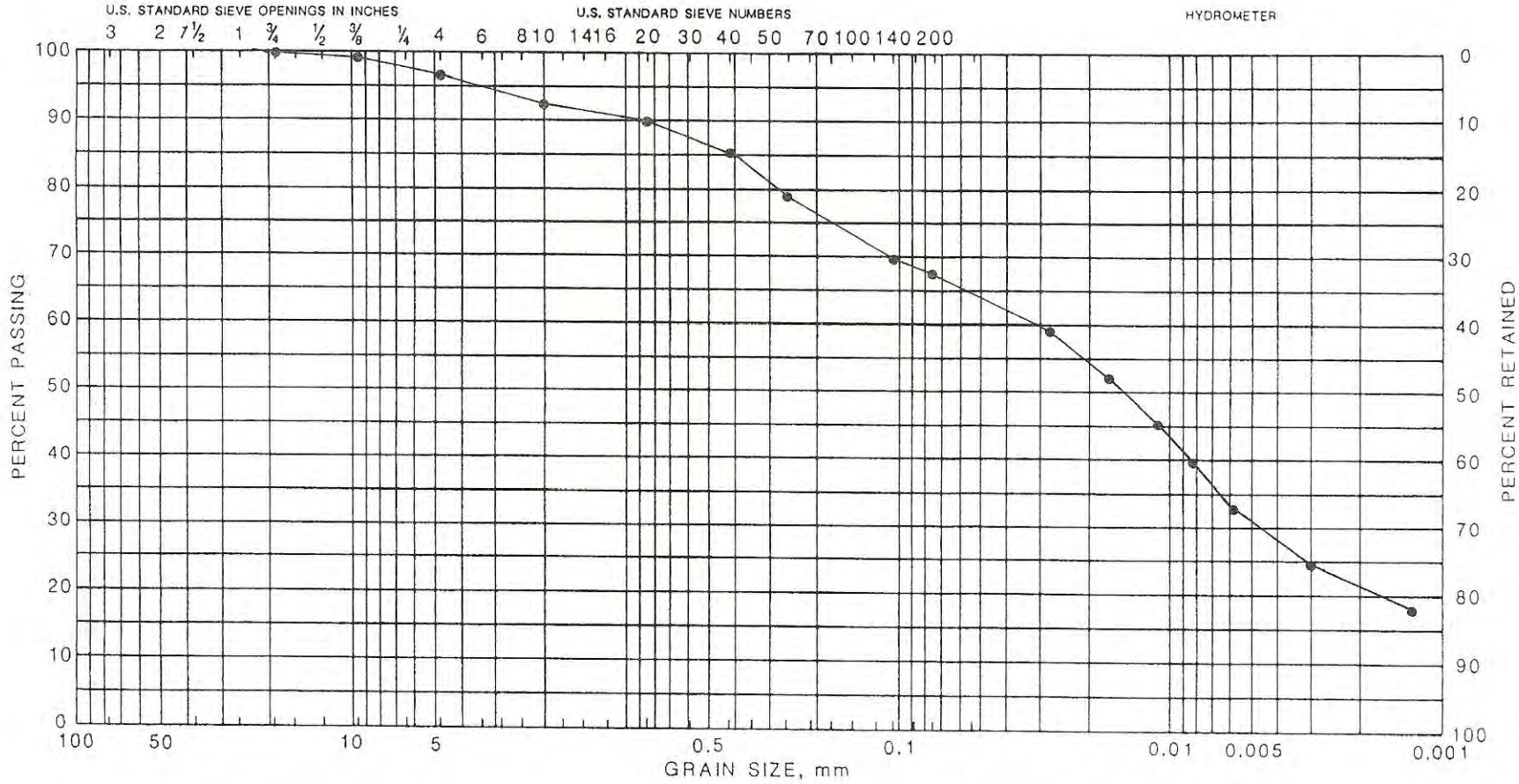
GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

JOB NO. 122765 PROJECT ILLINOIS POWER - CHAMPAIGN, ILLINOIS

CURVE	BORING	SAMPLE	DEPTH,Ft.	DESCRIPTION
2	UTB-6	S-5, J-3	20.0-20.5	Gray Sandy CLAY, CL

LIQUID LIMIT = 21
PLASTIC LIMIT = 12

PARTICLE SIZE ANALYSIS



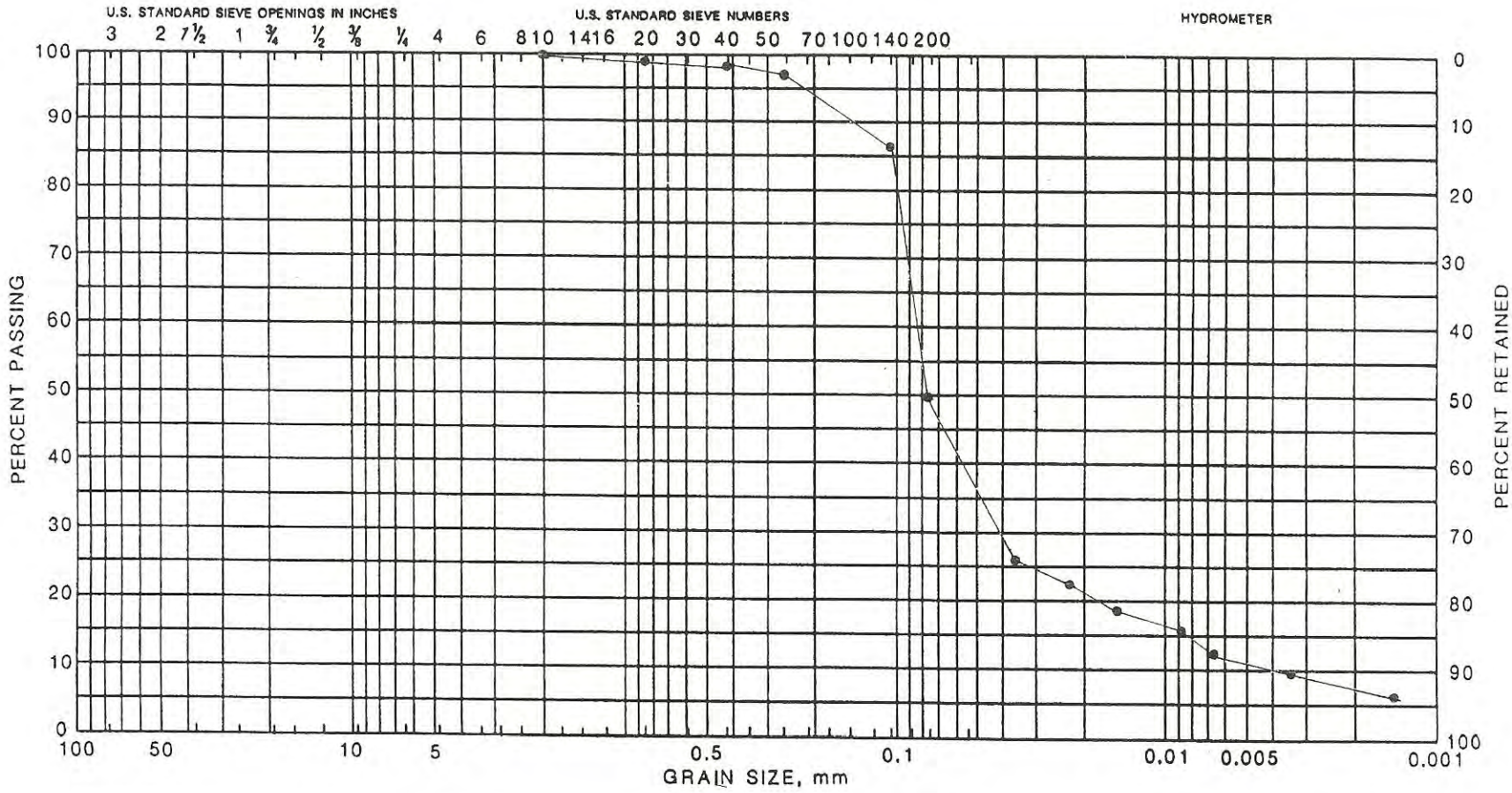
GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

JOB NO. 122765 PROJECT ILLINOIS POWER - CHAMPAIGN, ILLINOIS

CURVE	BORING	SAMPLE	DEPTH,Ft.	DESCRIPTION
3	UTB-7	ST-2, J-3	14.0-14.5	Gray Sandy CLAY Trace Gravel, CL

LIQUID LIMIT = 22
PLASTIC LIMIT = 11

PARTICLE SIZE ANALYSIS



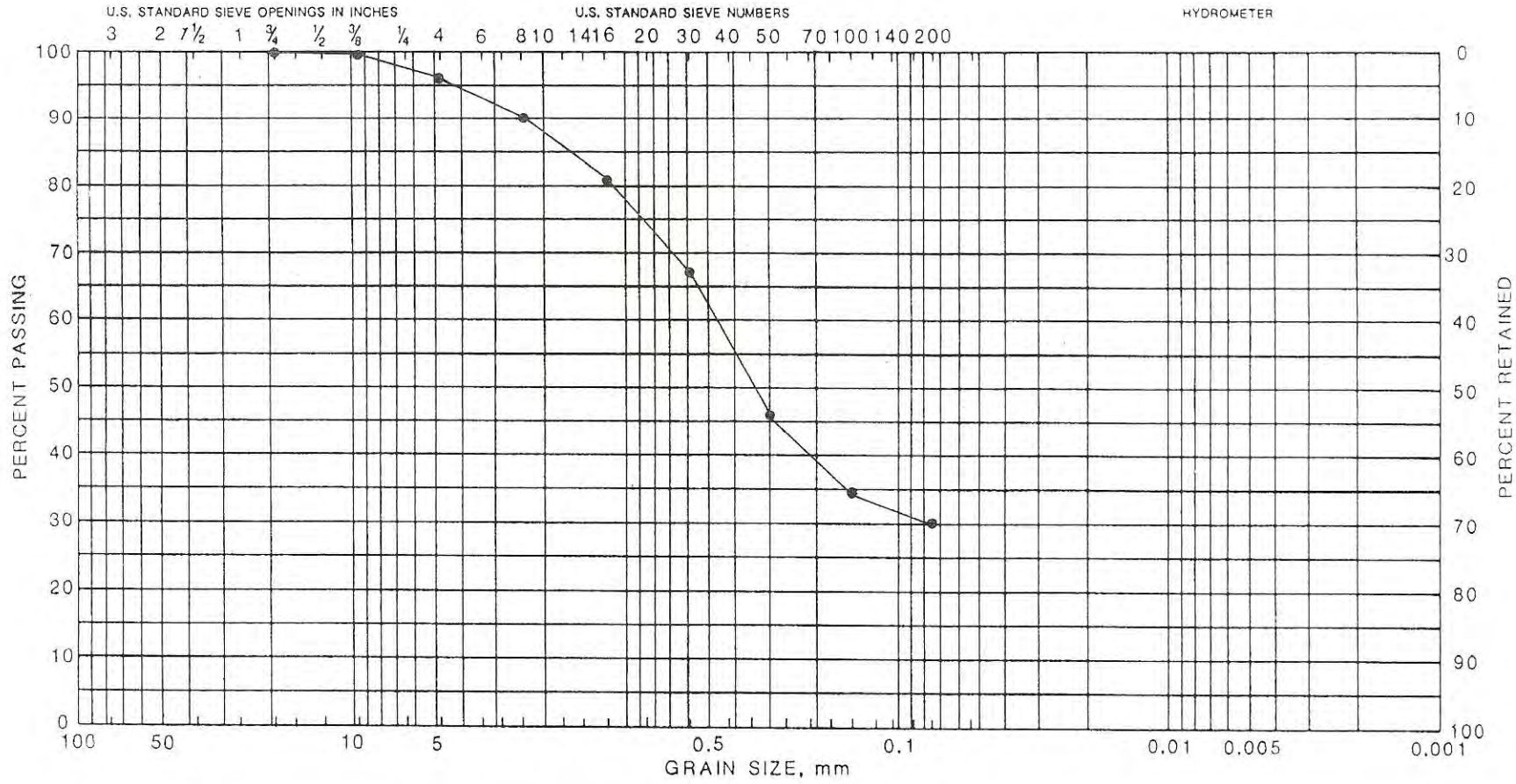
GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

JOB NO. 122765 PROJECT ILLINOIS POWER - CHAMPAIGN, ILLINOIS

CURVE	BORING	SAMPLE	DEPTH,Ft.	DESCRIPTION
4	UTB-11	S-1	150.5-151.5	Brown Clayey SAND, SC

NON-PLASTIC

PARTICLE SIZE ANALYSIS



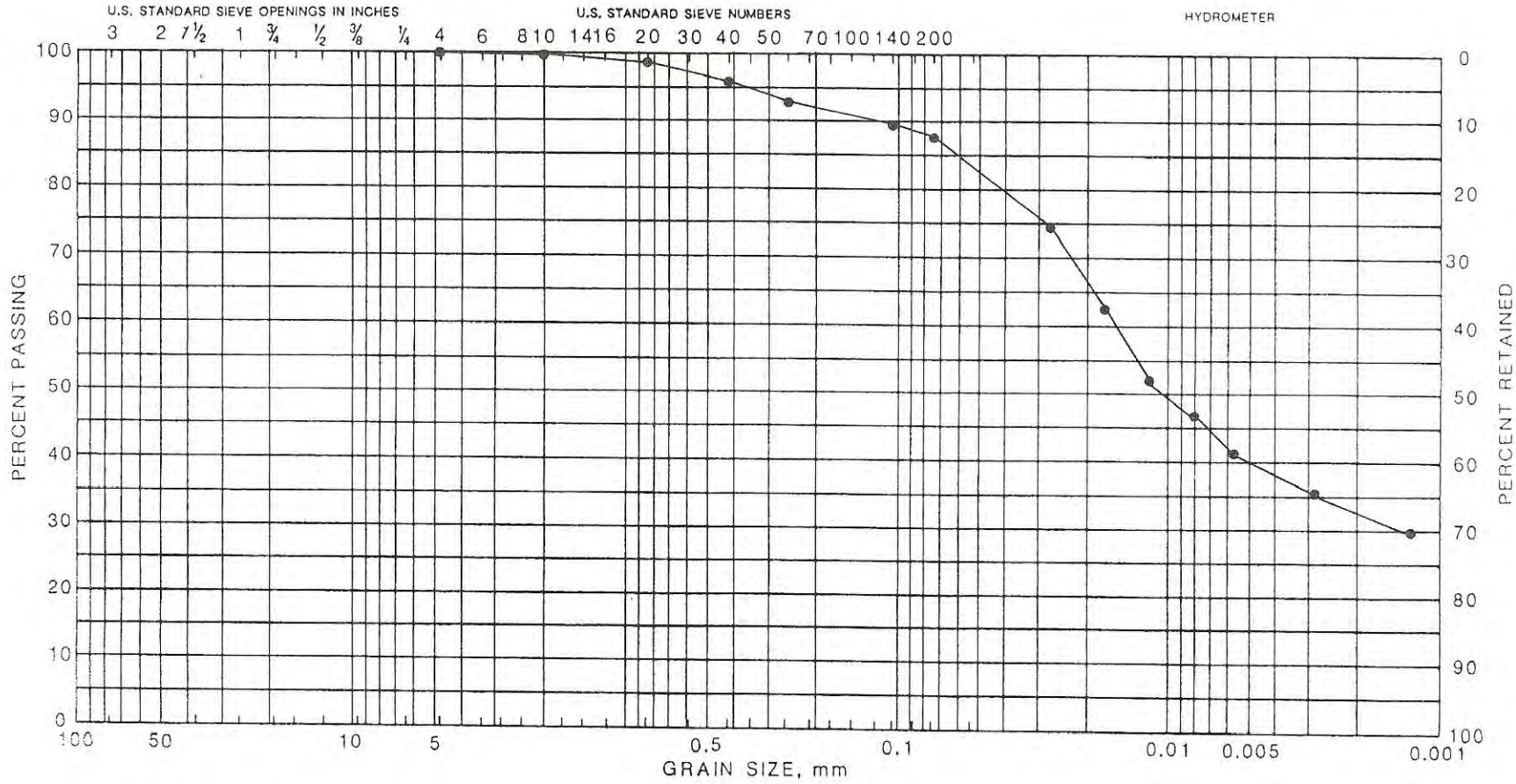
GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

JOB NO. 112765 PROJECT ILLINOIS POWER - CHAMPAIGN, ILLINOIS

CURVE	BORING	SAMPLE	DEPTH,Ft.	DESCRIPTION
5	UTB-12	S-1	174.5-176.5	Brown Clayey SAND Trace Gravel, SC

NON-PLASTIC

PARTICLE SIZE ANALYSIS



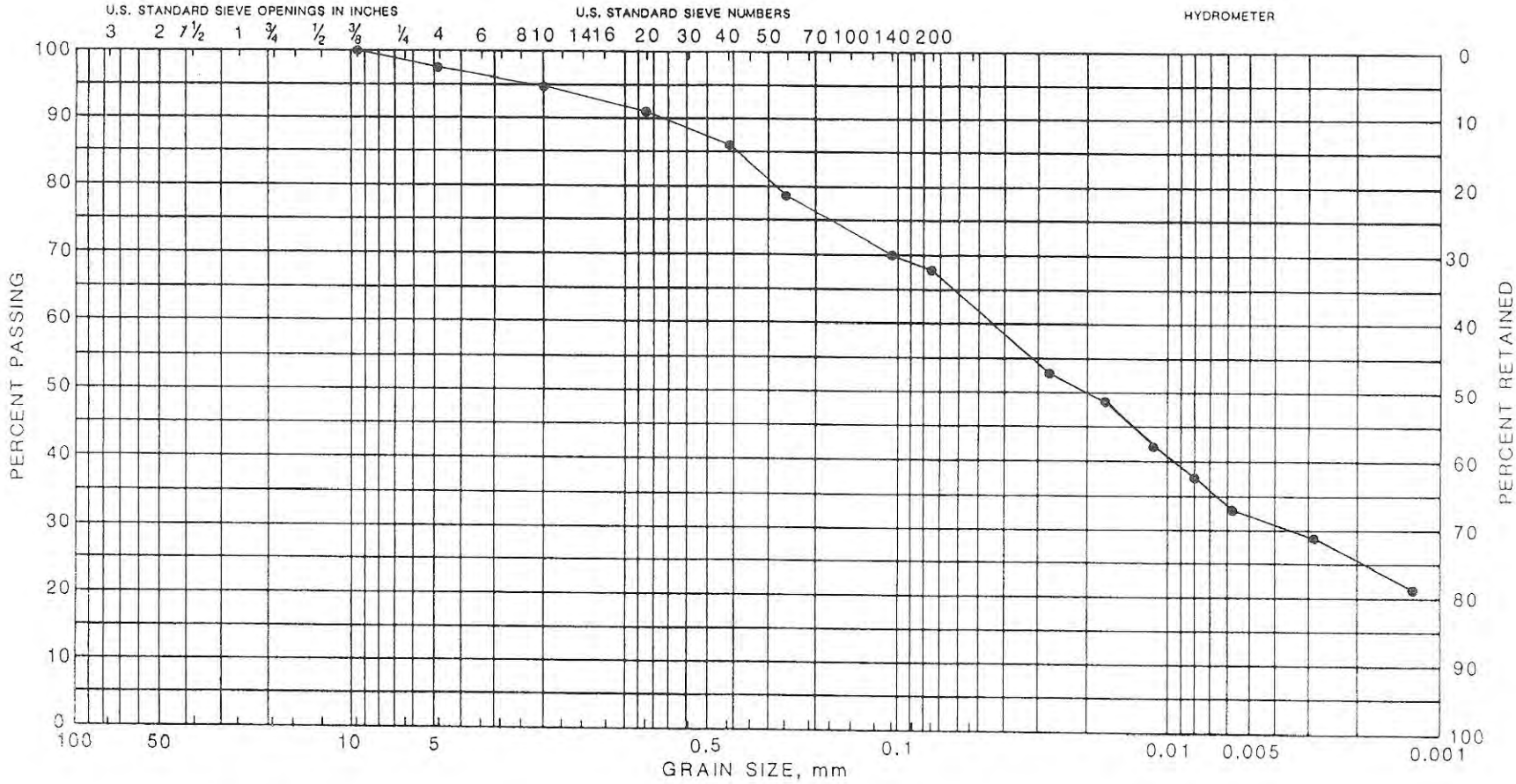
GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

JOB NO. 122765 PROJECT ILLINOIS POWER - CHAMPAIGN, ILLINOIS

CURVE	BORING	SAMPLE	DEPTH,Ft.	DESCRIPTION
6	UTB-13	ST-1, J-2	3.5-4.0	Gray-Brown CLAY w/Silt Trace Sand, CH

LIQUID LIMIT = 50
PLASTIC LIMIT = 19

PARTICLE SIZE ANALYSIS



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

JOB NO. 122765 PROJECT ILLINOIS POWER - CHAMPAIGN, ILLINOIS

CURVE	BORING	SAMPLE	DEPTH,Ft.	DESCRIPTION
7	UTB-19	ST-1, J-3	14.0-14.5	Gray Sandy CLAY Trace Gravel, CL

LIQUID LIMIT = 24
PLASTIC LIMIT = 13

APPENDIX H

Supplemental SI Boring and Test Pit Logs

Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Borehole No.: CHPH-200

Project Name: IP - Champaign Former MGP	Ground Elev.: 0.00'	Datum: Not Surveyed
Project Number: 17324	X Coordinate: 2589.00	Y Coordinate: 4775.00
Date(s) Drilled: 12/17/96 - 12/17/96	Total Depth: 16.00'	Borehole Dia.: 1.00in
Consultant: Kelron	Location: Southwest Corner of Site	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
0		CS-1 0-4				FI	Dark brown, FILL, Silty CLAY with coal fragments, cinders, worm burrows, moist		TOC
						CL	Light brown Silty CLAY, trace gravel, iron-oxide mottling		
-5	5	CS-2 4-8							TOC
						SC	Brown Clayey SAND with gravel		
						CL	Light gray Silty CLAY, light brown iron-oxide mottling, wet		
		CS-3 8-12							
-10	10						Dark gray staining with slight hydrocarbon odor		
		CS-4 12-16					Light gray Silty CLAY with gravel, light to medium brown iron-oxide mottling Black petroleum-filled fracture present @ 12 - 12.5 feet		
-15	15						Dary gray Sandy CLAY trace gravel, hard, stiff		TOC
							Probehole Terminated - 16 Feet		
-20	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Borehole No.: CHPH-201

Project Name: IP – Champaign Former MGP	Ground Elev.: 0.00'	Datum: Not Surveyed
Project Number: 17324	X Coordinate: 2953.00	Y Coordinate: 4791.00
Date(s) Drilled: 12/17/96 – 12/17/96	Total Depth: 16.00'	Borehole Dia: 1.00in
Consultant: Kelron	Location: Southeast Corner of Site	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
0		CS-1 0-4				FI	Brown, FILL, Silty CLAY with cinders and limestone gravel		TOC
						CL	Dark brown Silty CLAY, trace sand and gravel, roots, fractures, iron-oxide mottling		
		CS-2 4-8					light gray with brown mottling and iron-oxide staining on fractures		
-5	5					SC	Light brown Clayey SAND, trace gravel, wet		
						CL	Light brown CLAY with sand and gravel, gray mottling		
		CS-3 8-12					brown mottling along fractures		
-10	10					SC	Light gray Clayey SAND		TOC
						CL	Light gray CLAY with gravel and brown mottling along fractures		
		CS-4 12-16				SP	Gray fine to medium SAND		
						CL	Brown CLAY, trace sand and gravel, gray mottling		
-15	15						light gray with trace brown mottling		TOC
							Probehole Terminated – 16 Feet		
-20	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Borehole No.: CHPH-202

Project Name: IP - Champaign Former MGP	Ground Elev.: 0.00'	Datum: Not Surveyed
Project Number: 17324	X Coordinate: 2970.00	Y Coordinate: 4984.00
Date(s) Drilled: 12/17/96 - 12/17/96	Total Depth: 16.00'	Borehole Dia.: 1.00in
Consultant: Kelron	Location: Northeast Corner of Site	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
0		CS-1 0-4				FI	Brown, FILL, CINDERS, BRICK, COAL		TOC
		CS-2 4-8				CH	Brown-gray CLAY, wet, coal tar stains and oil in fractures		
-5	5								
		CS-3 8-12				CL	light gray with brown mottling, coal tar staining and oil Light gray CLAY, trace silt brownish-green with light gray mottling		
-10	10								TOC
		CS-4 12-16							
-15	15						Light gray CLAY with sand and gravel and gray-green mottling		TOC
							Probehole Terminated - 16 Feet		
-20	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Borehole No.: CHPH-203

Project Name: IP – Champaign Former MGP	Ground Elev.: 0.00'	Datum: Not Surveyed
Project Number: 17324	X Coordinate: 2579.00	Y Coordinate: 5096.00
Date(s) Drilled: 12/17/96 – 12/17/96	Total Depth: 16.00'	Borehole Dia.: 1.00in
Consultant: Keiron	Location: Northwest Corner of Site	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
0		CS-1 0-4				FI	Dark brown to black, FILL, CINDERS, BRICK, COAL, CONCRETE		TOC
		CS-2 4-8					Black FILL, SAND, GRAVEL, CINDERS, slight coal tar odor		
-5	5								
		CS-3 8-12				CL	Gray-black Silty CLAY with brown mottling, slight coal tar odor		
-10	10					SC	Light gray Sandy CLAY with gravel, extensive brown mottling and iron-oxide staining, slight coal tar odor		TOC
		CS-4 12-16				CL	Green-gray Silty CLAY with sand and gravel		
-15	15								TOC
							Probehole Terminated – 16 Feet		
-20	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-300

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 3030.42	Y Coordinate: 4901.79
Date(s) Drilled: 03/10/97 – 03/10/97	Total Depth: 18.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Crovens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
		CS-1 0-4				FI	Brown FILL with silty clay, sand, gravel, concrete, organics, moist		
						CL	Brown silty CLAY brown–gray with black mottling light gray with brown mottling, moist		
	5	CS-2 4-6							
		CS-3 6-8							
		CS-4 8-10					light gray with gray–green mottling		
	10	CS-5 10-12				SC SP CL SP	Brown fine to medium SAND and clayey SAND, trace gravel Gray medium to coarse SAND, wet–saturated, coal tar odor Sandy CLAY Medium to coarse SAND, coal tar odor		LAB
		CS-6 12-14				CL	2–inch SAND layer with gravel and coal tar ganglia @ 11.1 to 11.3 Light brown Silty CLAY with sand, trace gravel, no coal tar odors coal tar in factures		
		CS-7 14-16					coal tar odors (no visible coal tar)		
	15					SP CL	Brown fine to medium SAND, 1/4–inch coal–tar saturated lens Light brown silty CLAY		
		CS-8 16-18					Light gray–green CLAY, stiff		
							Probehole Terminated – 18 feet		
	20								

Remarks. LAB – Indicates sample collected for laboratory analysis.

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-301

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 3012.92	Y Coordinate: 4944.38
Date(s) Drilled: 03/10/97 – 03/10/97	Total Depth: 14.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
							Not sample collected to 6 feet		
	5	CS-1 6-8				CL	Light gray CLAY with brown mottling		
		CS-2 8-10					cool tar odor		
	10	CS-3 10-12					Medium gray silty CLAY, trace gravel, coal tar odor two fine sand lenses present @ 11 feet (thickness less than 1/10-inch)		
		CS-4 12-14					gray-green with sand and gravel, very stiff		
	15						Probehole Terminated – 14 feet		
	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-302

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 3007.81	Y Coordinate: 4944.35
Date(s) Drilled: 03/10/97 – 03/10/97	Total Depth: 16.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Crovens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
	0	CS-1 0-4				FI	Black FILL, silty clay, coal, high organics		
							faint coal tar odor		
		CS-2 4-8				CL	Light to medium gray CLAY, faint coal tar odor		
	5								
		CS-3 8-12					with brown mottling, no coal tar odor		
	10						medium gray with faint coal tar odor CLAY with sand and gravel		
		CS-4 12-16					Silty CLAY with sand and gravel, coal tar odor		
	15						Probehole Terminated – 16 feet		
	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-303

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 2998.89	Y Coordinate: 4966.81
Date(s) Drilled: 03/11/97 – 03/11/97	Total Depth: 16.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
		CS-1 0-4				FI	Brown to black FILL with silty clay, rock, coal, cinders, concrete		
						CL	Medium gray silty CLAY		
							CLAY with silt, stiff		
		CS-4 4-8					light gray with minor brown mottling, plastic		
	5								
		CS-5 8-12							
	10					SC	Clayey SAND and GRAVEL with coal tar blebs		
						CL	Gray-green silty CLAY with sand and gravel, faint coal tar odor		LAB
		CS-6 12-16					no coal tar odor		
						SP	Fine to medium SAND, wet-saturated		
	15					CL	Medium to coarse SAND and GRAVEL with coal tar ganglia		
							Light gray CLAY with brown mottling, no coal tar odor		LAB
							Probehole Terminated – 16 feet		
	20								

Remarks: LAB – Indicates sample collected for laboratory analysis.

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-304

Project Name: IP - Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 3021.27	Y Coordinate: 4856.62
Date(s) Drilled: 03/11/97 - 03/11/97	Total Depth: 18.00'	Borehole Dia.: 1.50in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Crovens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
		CS-1 0-4				FI	Brown to black FILL silty clay, brick, coal, high organics, moist		
						CL	Brown silty CLAY, trace sand		
	5	CS-2 6-10					light gray grading to gray-green with brown mottling		
	10	CS-3 10-14					with sand and gravel, dry, stiff		
	15	CS-4 14-18					medium gray		
							Probehole Terminated - 18 feet		
	20								

Remarks: Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-305

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 3027.14	Y Coordinate: 4876.24
Date(s) Drilled: 03/11/97 – 03/11/97	Total Depth: 18.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
							No sample collected to 6 feet		
	5	CS-1 6-10				CL	Light gray CLAY with brown mottling, moist		
							Sandy CLAY, faint coal tar odor		
							Gray–green silty CLAY with gravel, no coal tar odor		
	10	CS-2 10-14					stiff		
		CS-3 14-18				SC	Clayey fine SAND, trace gravel, wet–saturated		
	15					CL	Silty CLAY, trace sand and gravel, stiff		
							medium gray		
							Probehole Terminated – 18 feet		
	20								

Remarks.

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-306

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 3032.56	Y Coordinate: 4890.23
Date(s) Drilled: 03/11/97 - 03/11/97	Total Depth: 17.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
							No sample collected to 6 feet		
	5	CS-1 6-10				CL	Light gray CLAY with brown mottling, moist		
						SC	Gray-green clayey fine to medium SAND, trace gravel, wet-saturated, faint coal tar odor		
	10	CS-2 10-14					Medium SAND with clay, trace gravel		
						CL	Gray-green silty CLAY, trace sand and gravel, stiff, no coal tar odor		
		CS-3 14-17				SC	Medium to coarse SAND with clay, trace gravel, wet-saturated, no coal tar odor		
	15					CL	Silty CLAY, trace sand and gravel, moist, stiff		LAB
							Probehole Terminated – 17 feet		
	20								

Remarks. LAB – Indicates sample collected for laboratory analysis.

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-307

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 2989.08	Y Coordinate: 4926.58
Date(s) Drilled: 03/11/97 – 03/11/97	Total Depth: 6.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
							No sample collected to 4 feet		
	5	CS-1 4-6				CL	Light gray CLAY with brown mottling, moist, coal tar odor saturated with coal tar on half of sample closer to sewer coal tar odor		LAB
							Probehole Terminated – 6 feet		
	10								
	15								
	20								

Remarks: LAB – Indicates sample collected for laboratory analysis.

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-308

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 2987.80	Y Coordinate: 4922.56
Date(s) Drilled: 03/11/97 – 03/11/97	Total Depth: 6.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
							No sample collected to 4 feet		
	5	CS-1 4-6				FI	FILL, tan sand mixed with clay, sewer line backfill, no coal tar odor		
						CL	Light gray CLAY with brown mottling, viscous coal tar present in fractures		
							Probehole Terminated – 6 feet		
	10								
	15								
	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHPH-309

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 2987.57	Y Coordinate: 4917.17
Date(s) Drilled: 03/11/97 – 03/11/97	Total Depth: 8.00'	Borehole Dia.: 1.00in
Consultant: Philip Environmental	Location: Along Sixth Avenue Right of Way	
Drilled By: Philip Environmental	Drilling Method: RECON System	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
							No sample collected to 4 feet		
	5	CS-1 4-8				FI	FILL, sandy clay overlying 2–inches of solid brick VOID space – sampler dropped 6 inches		
						CL	Light gray CLAY with brown mottling, viscous coal tar in fractures estimated 4% of sample volume no visible coal tar, coal tar odor no coal tar odor		
	10						Probehole Terminated – 8 feet		
	15								
	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Test Pit No.: CHTP-01

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 2955.65	Y Coordinate: 4924.64
Date(s) Drilled: 03/12/97 – 03/12/97	Total Depth: 7.00'	Borehole Dia.:
Consultant: Philip Environmental	Location: West of Sixth Avenue Right of Way	
Excavated By: Super-K Backhoe	Method: Backhoe – Test Pit	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
						FI	FILL, silty clay with brick		
						FI/CL	Brown silty CLAY, perched groundwater seepage @ FILL–CLAY interface		
	5					FI	Clay–tile storm sewer, 8–inch pipe intercepted; approx. 100 gallons of water with minor coal tar impact drained from pipe		
						CL	Light gray CLAY with extensive fractures, root fragments, and macropores, heavily impacted with viscous coal tar adjacent to and below sewer line		LAB
							End of Test Pit – 7 feet		
	10								
	15								
	20								

Remarks: LAB – Indicates sample collected for laboratory analysis.

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Test Pit No.: CHTP-02

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 2950.82	Y Coordinate: 4917.39
Date(s) Drilled: 03/12/97 – 03/12/97	Total Depth: 7.00'	Borehole Dia.:
Consultant: Philip Environmental	Location: West of Sixth Avenue Right of Way	
Excavated By: Super-K Backhoe	Method: Backhoe – Test Pit	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
						FI	FILL, silty clay with brick Cast iron 8–inch pipe; east–west orientation; parallel and 4 feet south of sewer; invert at 56 inches; no apparent impact; filled with clear water Two metal 1.5–inch pipes; east–west orientation; parallel and 6 feet south of sewer inverts at 32 and 50 inches; lower pipe clad in concrete		
						CL	Brown silty CLAY		
	5						Light gray CLAY with extensive fractures, root fragments, and macropores, heavily impacted with viscous coal tar		
							End of Test Pit – 7 feet		
	10								
	15								
	20								

Remarks:

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Test Pit No.: CHTP-03

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 2948.28	Y Coordinate: 4959.50
Date(s) Drilled: 03/12/97 – 03/12/97	Total Depth: 7.00'	Borehole Dia.:
Consultant: Philip Environmental	Location: West of Sixth Avenue Right of Way	
Excavated By: Super-K Backhoe	Method: Backhoe – Test Pit	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
						FI	FILL, silty clay, brick, concrete, coal tar odor		
						CL	Brown silty CLAY, perched groundwater seepage at FILL–CLAY interface		
	5						Light gray CLAY with extensive fractures, root fragments, and macropores, heavily impacted with viscous coal tar		
							End of Test Pit – 7 feet		
	10								
	15								
	20								

Remarks.

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Record of Subsurface Exploration

PHILIP ENVIRONMENTAL

Probehole No.: CHTP-04

Project Name: IP – Champaign	Ground Elev.: Not Surveyed	Datum: Not Surveyed
Project Number: 17246	X Coordinate: 2707.32	Y Coordinate: 5041.43
Date(s) Drilled: 03/12/97 – 03/12/97	Total Depth: 3.00'	Borehole Dia.:
Consultant: Philip Environmental	Location: Northeast of Gas Holder GH-1	
Excavated By: Super-K Backhoe	Method: Backhoe – Test Pit	
Logged By: S. Cravens		

Elevation (ft)	Depth (ft)	Sample No. Depth Interval	Recovery	Water Level	Graphic Log	USCS Code	Material Description	PID Reading	Lab Sample
						FI	FILL, silty clay, concrete, brick, high organics, moist, impacted with coal tar		
							End of Test Pit – 3 feet		LAB
	5								
	10								
	15								
	20								

Remarks. LAB – Indicates sample collected for laboratory analysis.

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APPENDIX I

CSI (2004) Geologic Logs

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-501

Project Name: IP - Champaign Former MGP		Elevation: 738.60'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012596.35	Coordinate Y: 1257400.40
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	48				0' Silty CLAY w/coal, ash, cinders, roots, moist. (Fill).	30.6	2.00	
						FI	1'4" - cinders ash, brick, fine gravel, dry-moist.	34.1		
							2'10" - light brown to yellow-brown mottling (Natural material) No fill.		1.25	LAB
735		MAC-2 4-8	100				4'4" - trace sand, roots, high plasticity, yellow-orange.			
	5							16.8	0.75	
							6'5" - light gray mottling	17	1.00	
							7'1" Sandy CLAY with fine to coarse sand, brown-gray, wet. 7'5" - black	20.4	0.75	
		MAC-3 8-12	100				8' - few blebs of tar-like material with sheen, slight tar-like odor, black, wet.	29.6	0.75	LAB
730						CL	9'1" Silty CLAY with trace sand, high plasticity, tar-like odor, moist.	5.8		
							9'7" - greenish-gray		0.75	
	10							2.8		
									2.75	
								30.8	2.75	
							12' - trace sand and gravel, medium to high plasticity.	22.3		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-501

Project Name: IP - Champaign Former MGP		Elevation: 738.60'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012596.35	Coordinate Y: 1257400.40
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	77			CL	13' - little sand and gravel (fine to coarse), medium plasticity, no hydro-carbon odor.	5.2	1.25	
725						SC	14'4" Clayey SAND (fine to medium) with gravel (coarse < 1"), black. 14'5" - Photo #214 (heavily stained, tar-like material, wet). 14'7" Silty CLAY with trace sand and gravel (fine to coarse), medium gray with yellow-orange mottling, slight tar-like odor, moist.	47.6	>.75	
	15							238		LAB
									>4.5	
		MAC-5 16-20	100				16' - no odor, moist	36.6		
								13.2	>4.5	
								2.8	>4.5	
720										
						CL		2.3	>4.5	
	20	MAC-6 20-24	100					1.8		
							21' - little sand (fine to coarse), trace gravel (< 1").	1.6	1.75	
								1.5	2.00	
								1.6	3.00	
715							24' - Termination of boring.	1.4		LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-502

Project Name:	IP - Champaign Former MGP	Elevation: 738.30'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012599.30	Coordinate Y: 1257476.07
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	77				0' Silty CLAY with few sand and fine gravel, roots, cinders, brick, no odor, moist. (Fill).			
								3.4	2.50	
						FI				
								3.7	3.00	
							3' SAND fine to coarse with few gravel (fine), brick, ash, moist. (Fill).	4.6	2.25	LAB
735										
		MAC-2 4-8	100				4' CLAY with sand and gravel, brick, ash, yellow-orange to light brown. (Fill).	10.6		
						FI			3.50	
							4'10" - brick layer (~80%) degraded.			
	5							9.9		
							5'5" CLAY, trace sand (fine to medium), medium plasticity, black, slight tar-like odor.			
								175	3.00	
						CL				
							7'1" - greenish-gray with black mottling; verticle fractures filled with tar-like material, tar-like odor, blocky fractures, moist.	217	2.25	LAB
		MAC-3 8-12	100				8' Sand with gravel (fine to coarse), stained dark gray, wet.	216		
730										
						SW	9' - tar-like odor.	21.6		
							9'8" Silty CLAY with trace sand and gravel (fine), green-gray, black mottling, slight tar-like odor, moist.			
	10							115	1.00	
							10'6" - some sand, stained black, heavy tar-like staining.			
						CL		389	0.50	
							11'6" - trace sand and gravel, green-brown, no staining.		0.75	
							12' - few sand (fine to coarse), trace fine gravel, tar-like material in fractures and voids. Photo #212.	468	>4.5	LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-502

Project Name: IP - Champaign Former MGP		Elevation: 738.30'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012599.30	Coordinate Y: 1257476.07
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100							
725							13'1" - no staining or odor.	397	>4.5	
								79	>4.5	
	15						15' - trace sand and gravel (fine), medium gray with green-gray mottling, no odor.	108	>4.5	
		MAC-5 16-20	100				16' - trace fine to coarse sand and fine gravel, medium gray, no odor, moist.	65.2	>4.5	
								42.1	>4.5	
						CL				
720								45.8	>4.5	
								32.3	>4.5	
	20	MAC-6 20-24	100					16.6		
									3.75	
								12.7	3.75	
								10.7	>4.5	
715								9.5	4.50	
							24' Termination of boring.	10.2		LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-503

Project Name: IP - Champaign Former MGP	Elevation: 738.20'	Datum: Mean Sea Level	
Project Number: 62400053	Coordinate X: 1012662.32	Coordinate Y: 1257523.54	
Location: 502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in	
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	63				0' CLAY with silt, sand, and gravel, roots, moist. (Fill).			
							9" - sand and gravel. Photo #211.			
							1' - coal fines, ash, cinders, black.	4.9	<0.5	
							2'6" - wet.		0.75	
735						FI		100		LAB
		MAC-2 4-8	50							
	5									
								138		
							6'5" CLAY, trace sand, high plasticity, green-gray w/black mottling, slight tar-like odor, moist.		1.25	
							7' - black, moist.	42	1.00	
730		MAC-3 8-12	56				8' - slight staining, yellowish with hydro-carbon/tar-like odor.	40.3	2.25	
						CL				
	10						10' - dark gray with slight tar-like odor.	143	1.00	LAB
								156	1.75	LAB
							12' - dark gray, moist.	150		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-503

Project Name: IP - Champaign Former MGP		Elevation: 738.20'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012662.32	Coordinate Y: 1257523.54
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	96				12'3" - <1/4" sand layer (fine to medium), black, heavy staining. 12'5" - <1/4" sand layer (fine to medium), black, heavy staining. 12'8" Silty CLAY with trace sand and fine gravel, green-gray, slight odor, moist.			
725								38	4.25	
							14' - light gray with brown/yellow mottling. 14'2" - light gray, no odor.	32.1	3.50	
							14'8" - 1/8" silt seam, black, heavily stained, slight tar-like odor.			
	15					CL		28.9	2.00	
							15'5" - greenish brown with black organics.		3.25	
		MAC-5 16-20	100				16' - light gray.	29.2		
									3.50	
720										
							18'5" - greenish-gray.		2.25	
								13.9		LAB
									3.50	
	20	MAC-6 20-24	88				20' - medium gray	11.4		
									2.50	
						CL		6.7		
									3.25	
								0.7		
									3.75	
715								4.2		
									3.00	
								1.6		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-503

Project Name: IP - Champaign Former MGP		Elevation: 738.20'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012662.32	Coordinate Y: 1257523.54
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	100						3.50	
	25							1.6	3.50	
						CL		2.4	3.00	
								1.6	4.50	
710							28' - Termination of boring.	1.1		
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-504

Project Name:	IP - Champaign Former MGP	Elevation: 738.80'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012758.32	Coordinate Y: 1257493.15
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	73				0' Silty CLAY with sand, gravel, and roots, moist. (Fill).			
							1'5" - clay, coal, cinders, ash, gravel, black, tar-like odor, moist.	5.7		
							2'3" - wet.	3.6		
								15.9		LAB
735		MAC-2 4-8	63			FI	4' - gravel, brick, ash, cinder, black, heavily stained tar-like material with strong tar-like odor, wet. (Fill).	223		
	5									
								530		LAB
							7'6" CLAY, green-gray, high plasticity, lightly stained w/tar-like material, slight odor, moist.		1.25	
		MAC-3 8-12	88				8' - dark gray with gray-green mottling, trace tar-like blebs in voids and fractures.	43.7		
730								56.5	2.00	
							9'4" - medium gray.			
	10					CL		169	1.75	
							11' - medium gray with orange-brown mottling, few tar-like blebs and stringers in voids, strong odor, moderately stained. Photo #210.	189	0.50	
							12' - grey green.	565	4.00	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: B-504

Project Name: IP - Champaign Former MGP		Elevation: 738.80'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012758.32	Coordinate Y: 1257493.15
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100			SC	12'3" - Clayey SAND (fine), heavily stained with tar-like material.			
							13' Silty CLAY with trace sand and gravel, gray-green, heavily stained with tar-like material, strong tar-like odor.	563		
725								860	3.75	LAB
	15						15' - no visible staining. slight tar-like odor.	763	4.00	
						CL				
		MAC-5 16-20	100					159	4.50	
							16'9" - little fine sand, trace gravel (fine to coarse), medium gray, moderate staining. Tar-like material in voids and fractures and around gravel (through 20' depth), strong odor.	357	4.50	
								575	4.25	
720								566	4.50	
	20	MAC-6 20-24	100				20' - few sand and gravel (fine to coarse), medium gray.	175	>4.5	
						CL				
							20'11" - fine sand lense 1/2" thick, heavily impacted with tar-like material, black, strong tar-like odor.	1101	>4.5	LAB
								187	>4.5	
								742	>4.5	
715							24' - little sand and gravel (fine to coarse), no staining, slight odor.	310	>4.5	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-504

Project Name: IP - Champaign Former MGP		Elevation: 738.80'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012758.32	Coordinate Y: 1257493.15
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/13/04	Date Completed: 07/13/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
	25	MAC-7 24-28	100			CL	26' - no odor.	85.6	>4.5	
								44	>4.5	
								19	>4.5	
							28' - Termination of boring.	8.2	>4.5	LAB
710										
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-505

Project Name: IP - Champaign Former MGP		Elevation: 738.60'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012765.45	Coordinate Y: 1257454.16
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/14/04	Date Completed: 07/14/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	92				0' Silty CLAY with trace sand and trace gravel, roots, trace brick, medium -dark brown, moist. (Fill).			
							1' - trace coal, cinders.	9.7		
							2' - 1 1/2" seam of cinders at 22".	6.9	2.00	
							2'6" - ash, sand (tan), fine gravel.			
							3' - ash, dark gray-black, moderate staining with tar-like material, wet. (Fill).	46.2		LAB
735						FI				
		MAC-2 4-8	67				4' - cinders, ash (very coarse), black, heavily stained tar-like material with strong tar-like odor, wet. (Fill).	345		
	5							249		
								393		LAB
							7' Sandy CLAY, very soft, black, heavy staining.			
							7'3" - dark gray, high plasticity, moist.	148	1.50	
		MAC-3 8-12	75				8' CLAY, high plasticity, trace tar-like material in voids and fractures, moderate tar-like odor, occasional yellow-orange mottling, moist.	155	1.75	
730										
						CL		48.7	1.50	
	10							151	1.00	
								202	0.75	LAB
								81.3		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-505**

Project Name: IP - Champaign Former MGP		Elevation: 738.60'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012765.45	Coordinate Y: 1257454.16
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/14/04	Date Completed: 07/14/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100				12'8" CLAY w/trace sand and gravel (fine to coarse),high plasticity, no staining or odor, moist.			
							13' Silty CLAY w/trace sand and gravel, gray-green, heavily stained with tar-like material, strong odor.	109	1.50	
725							13'6" - no staining or odor, low plasticity, moist.			
						CL		131	4.25	
	15							60.9	2.75	
		MAC-5 16-20	100				16' - green-gray with little tar-like material in voids and fractures, slight tar-like odor.	11.2	>4.5	
							16'3" - no staining, slight odor.			
								56.5	3.75	
								82	1.50	
720										
							19' - little sand and gravel (fine to coarse), tar-like material in voids/fractures (trace-little).	158	3.75	
	20	MAC-6 20-24	100					17	4.00	
						CL		25.1	0.50	
							21'6" - trace sand and gravel (fine to coarse), green-gray w/trace tar-like material in voids, slight odor, very moist.		0.75	
							22' - no staining or odor.	2.7	2.75	LAB
								1.4	4.25	
715							24' - trace-little sand and gravel (fine to coarse), medium gray, medium-low plasticity, moist.	1.4	4.00	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-505

Project Name:	IP - Champaign Former MGP	Elevation: 738.60'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012765.45	Coordinate Y: 1257454.16
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/14/04	Date Completed: 07/14/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
	25	MAC-7 24-28	100			CL		9.9	2.50	
								5.8	3.00	
								3.7	4.25	
							28' - Termination of boring.	5.8	3.25	LAB
710										
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-506

Project Name:	IP - Champaign Former MGP	Elevation: 738.27'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012825.34	Coordinate Y: 1257384.15
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/22/04	Date Completed: 07/22/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	81				0' FILL, clay, gravel (fine-coarse), cinders, ash, roots, dark-brown to black, moist. (Fill)	1.1	3.50	
								1.7	0.75	
						FI				
735							3' - tar-like odor.	3.6	1.25	LAB
		MAC-2 4-8	83					107	1.50	
	5						5' Silty CLAY with trace gravel (fine), moderate staining, black .	138	1.75	
							5'6" - light gray/greenish gray with mottling.	348	0.75	
						CL				
							7' - moderate staining with tar-like material in voids and fractures.	431	1.00	LAB
							8' Clayey SAND, heavily stained, wet.	218	1.25	
730		MAC-3 8-12	31							
								272		
						SC				
	10							272		
							10'7" Silty CLAY with trace roots.			
						CL		272		
						SC	11'2" Clayey SAND (fine to coarse) with gravel (fine to coarse).			
						CL	11'6" Silty CLAY with few sand, heavily stained, black, wet.			
						SC	11'10" Clayey SAND, dark gray to black.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-506

Project Name:	IP - Champaign Former MGP	Elevation: 738.27'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012825.34	Coordinate Y: 1257384.15
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/22/04	Date Completed: 07/22/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100				12' Silty CLAY with trace fine sand and trace fine gravel, greenish gray/brown, light tar-like odor, moist.	273		
							12'6" - tar-like material in fractures.			
725								607		
						CL				
							14'2" - no tar-like material, moderate odor, light brown to greenish gray.	1537		
							14'9" - light to moderate staining.			
	15							509		
						SP	15'5" SAND (fine to coarse) ~ 1/2" with trace gravel.			
						CL	15'6" Silty CLAY, tar-like material in voids and fractures.			
						SC	15'10" Clayey SAND (1" layer, fine to medium), poorly graded, heavily stained.			
		MAC-5 16-20	100			SP	16' SAND (fine to coarse).	1557		
						SC	16'3" Sandy CLAY (fine to medium sand).			
							16'5" Silty CLAy			
						CL		1865		LAB
						SW	17'10" SAND (fine to coarse) well graded with trace gravel, heavy staining.	1592		
720							18'5" Silty CLAY, medium gray.			
							19' - No staining, no odor.	1752	>4.5	
	20	MAC-6 20-24	100					29.6	>4.5	
						CL		5.5	>4.5	
								5.6	3.25	
715								12.3	4.25	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-506

Project Name: IP - Champaign Former MGP		Elevation: 738.27'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012825.34	Coordinate Y: 1257384.15
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/22/04	Date Completed: 07/22/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	100					9.4	>4.5	
	25							7.7	4.00	
								1.1	4.25	
									4.25	
710							28' Termination of boring.	2.0	4.00	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-507

Project Name: IP - Champaign Former MGP		Elevation: 738.20'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012864.63	Coordinate Y: 1257412.37
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/21/04	Date Completed: 07/21/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	77				0' Silty CLAY, gravel, brick, roots, dark brown, moist. (Fill)			
							10" - 1.25" rock.	1.8	2.50	LAB
						FI	1'8" - cinders.			
							2'2" - few fine to coarse gravel.	1.2	0.50	
735						FI	3' - trace >.75" gravel, light tar-like staining, wet.	1.6	3.25	
		MAC-2 4-8	96				4'2" - dark gray-black with slight hydrocarbon/tar-like odor, moist.	45.6	1.25	
	5						5' - dark gray mottled with black and orange.	34.3	1.00	
						CL	5'6" - tar-like material in voids and fractures, moderate staining.			
								218	1.50	
								186	1.50	
730		MAC-3 8-12	90				8' - trace fine sand and fine to coarse gravel, tar-like material in voids and fractures.	243	1.50	LAB
								24.7	0.75	
							9'6" - no staining in voids and fractures, slight odor.			
	10						10' - trace fine to medium gravel, yellow-orange to brown.	44	1.25	
						CL		15	2.75	
							11'9" - tar-like material in voids and fractures.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-507

Project Name:	IP - Champaign Former MGP	Elevation: 738.20'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012864.63	Coordinate Y: 1257412.37
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/21/04	Date Completed: 07/21/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100				12' - greenish gray.	23.8	>4.5	
							12'10" - no staining, slight odor.			
725							13' - tar-like material in fractures.	71.9	3.00	
								16.4	2.25	
						CL	14'4" - light-medium gray, no odor.			
	15						14'10" - gravel layer, fine (1-2" thick), heavily stained.			
							15' - no staining.	9.3	2.75	
		MAC-5 16-20	81					35.9	3.40	
								23.0		
							17'4" SAND (12" layer) (fine-medium) with clay, poorly graded, heavily stained.			
						SC				
720								30.1	<0.5	
							18'4" Silty CLAY with some sand, light gray, moist.			
								2163	>4.5	LAB
	20	MAC-6 20-24	100			CL	20'3" - trace coarse gravel, no staining, no odor.	20.5	>4.5	
								1.5	1.75	
							21'6" Clayey SAND (1/2" lens, fine-medium) poorly graded.			
							21'7" Silty CLAY, trace fine-medium sand and fine gravel.			
								1.2	2.00	
						CL				
715								1.3	2.00	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-507

Project Name:	IP - Champaign Former MGP	Elevation: 738.20'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012864.63	Coordinate Y: 1257412.37
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/21/04	Date Completed: 07/21/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	100			CL		1.2	1.25	
	25							0.8	1.50	
								0.7	2.50	
								0.4	2.50	
710							28' Termination of boring.	0.5	3.50	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-508

Project Name: IP - Champaign Former MGP		Elevation: 738.50'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012938.55	Coordinate Y: 1257433.70
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	79				0' Silty CLAY w/gravel and roots, dark brown, moist. (Fill)	2.9	1.75	
								4.4	2.75	
						FI	3' - cinders, brick, black.	6.3	1.25	LAB
735		MAC-2 4-8	71				4' - coarse cinders and gravel, light odor, wet. (Fill)	5.4	1.75	
	5							60.1	1.50	
							5'6" - dark gray-black, moderate tar-like staining in voids and fractures.	80	1.25	
						CL		121	2.00	
		MAC-3 8-12	100					220	2.50	
730							8'10" - greenish gray with orange mottling.	294	1.25	LAB
	10						10'4" Sandy CLAY (fine sand).	190	2.00	
						CL	10'8" Silty CLAY, greenish gray.	361	1.50	LAB
							11'5" - heavy staining with tar-like material.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-508

Project Name: IP - Champaign Former MGP		Elevation: 738.50'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012938.55	Coordinate Y: 1257433.70
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100				12' Sandy CLAY with fine sand, trace gravel.	106	3.25	
							13' Silty CLAY, light brown.	9.7	3.75	
725						CL				
							13'11" - greenish gray			
							14' - with sand.	6.3	3.25	
							14'3" - medium gray.			
	15							5.3	4.50	
		MAC-5 16-20	100				16' Silty CLAY with trace gravel.	3.9	4.50	
								9.9	2.50	
							18' - trace fine sand.	9	3.00	
720										
						CL	19' - trace coarse gravel >.75".	2.3	>4.5	
	20	MAC-6 20-24	100				20' - olive gray.	3.2	>4.5	
								3.4	2.75	
								5.6	3.00	
						CL				
								5.2	4.25	
715										
							24' - few fine sand and trace fine gravel, medium gray.	4.9	4.50	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-508

Project Name:	IP - Champaign Former MGP	Elevation: 738.50'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012938.55	Coordinate Y: 1257433.70
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
	25	MAC-7 24-28	0			CL		4.3	2.00	
								7.0	4.00	
								6.4	4.00	
							28' Termination of boring.	2.5	2.50	LAB
710	30									
705	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-509

Project Name:	IP - Champaign Former MGP	Elevation: 738.20'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012918.26	Coordinate Y: 1257355.34
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/21/04	Date Completed: 07/21/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	100				0' Silty CLAY with fine-coarse sand and little fine to coarse gravel, roots, dark brown, moist. (Fill)	0.5	<0.5	
						FI		0.7	<0.5	
735								0.9	<0.5	LAB
							3'6" - no sand			
		MAC-2 4-8	83					0.8	0.75	
							4'5" - trace brick.			
	5							1.2	0.75	
							5'5" - light brown with dark brown and orange mottling.			
							6' - greenish gray with dark brown and orange mottling.	1.0	1.50	
						CL	7' - light tar-like staining in fractures.	0.3	1.25	
730		MAC-3 8-12	100				8' - trace fine sand and little fine to coarse gravel, no staining, wet.	13.1	1.00	LAB
							9' - tar-like material in fractures and voids, moist.	0.4	0.50	
							9'2" Clayey SAND (fine-medium) w/trace fine-coarse gravel, heavy staining w/tar-like material.			
	10					SC	10' - wet.	10.9	<0.5	
							10'10" Silty CLAY with trace fine-medium gravel, light orangish-brown, no odor.			
							11' - moist.	26.1	1.75	
						CL		8.8	2.50	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-509

Project Name: IP - Champaign Former MGP		Elevation: 738.20'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012918.26	Coordinate Y: 1257355.34
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/21/04	Date Completed: 07/21/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	98					6.3	3.50	
725								6.2	3.25	
	15					CL	15' - light to medium gray.	3.7	4.00	
		MAC-5 16-20	100					1.9	3.25	
							17'4" SAND (2" layer) fine-medium, moist. 17'6" Silty CLAY with trace fine sand and fine to medium gravel, light brown, moist.	41.1	>4.5	
720						SM	18' - medium gray. 18'2" SAND, fine-medium, lightly stained, wet. 18'6" Silty CLAY, trace fine to medium sand, medium gray, moist.	42.6		LAB
								2.3	>4.5	
	20	MAC-6 20-24	100					19.3	3.00	
						CL	21' - some medium to coarse gravel.	11.7	3.75	
							21'7" - trace fine to medium gravel.	1.3	>4.5	
715								1.3	>4.5	
								0.6	2.75	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-509

Project Name:	IP - Champaign Former MGP	Elevation: 738.20'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012918.26	Coordinate Y: 1257355.34
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/21/04	Date Completed: 07/21/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
	25	MAC-7 24-28	88			CL		0.3	>4.5	
						SP	25'8" SAND fine-medium, poorly graded, moist.			
							26'1" Silty CLAY with trace fine to medium gravel, light to medium gray, moist.	0.2	1.50	
						CL		0.3	4.25	
710							28' Termination of boring.	0.5	4.00	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-510

Project Name:	IP - Champaign Former MGP	Elevation: 737.70'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012944.37	Coordinate Y: 1257255.84
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/12/04	Date Completed: 07/12/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	96				0' SILTY CLAY with gravel and roots, dark brown, moist (Fill).			
							1'3" - cinders, ash, black, wet	3.1	3.25	
						FI	1'7" - clay, cinders, black, moist.			
								21	2.25	LAB
735							2'10" - trace sand, black, medium plasticity, occasional fractures, moist.			
							3' - orange-brown mottling.	12	2.50	
		MAC-2 4-8	100				4'3" - trace sand & fine gravel, olive gray.	4.0	2.50	
	5									
								5.9	2.50	LAB
						CL				
							6' - medium plasticity, greenish gray	5.8	2.00	
							7' - light gray with orange-brown mottling.	2.5	1.75	
730							7'9" CLAYEY SAND, fine - coarse, greenish gray, wet			
		MAC-3 8-12	77					3.9	1.75	
						SC				
	10							3.7		
							11' CLAY, greenish gray, high plasticity, very soft.	5.5	0.75	
						CL	11'5" SILTY CLAY, trace sand and gravel, yellow-orange w/light gray mottling, medium plasticity.		3.25	
							11'9" - little sand and gravel, very hard, green-brown, with gray mottling.		>4.5	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-510

Project Name: IP - Champaign Former MGP		Elevation: 737.70'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012944.37	Coordinate Y: 1257255.84
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/12/04	Date Completed: 07/12/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	92				12' - very soft, wet.	10.2		LAB
725						CL	13' - very hard, moist.	1.7	0.75	
							13'7" - light gray	1.9	>4.5	
	15						15' - little sand and gravel (fine - coarse sand, fine gravel), medium gray, very hard, dry	3.6	>4.5	
		MAC-5 16-20	98			CL	16'2" - greenish brown, moist	3.3	>4.5	
									1.50	
							17' - medium gray	4.9	>4.5	
720								2.1	>4.5	
								3.2	>4.5	
						CL				
	20	MAC-6 20-24	100					3.8	>4.5	
								6.5	>4.5	
								5.3	>4.5	
715						CL		4.2	>4.5	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-510

Project Name:	IP - Champaign Former MGP	Elevation: 737.70'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012944.37	Coordinate Y: 1257255.84
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/12/04	Date Completed: 07/12/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	81				24'3" - trace sand & gravel, soft, high plasticity, moist	6.0	>4.5	
	25							7.7	1.75	
						CL	25'8" - little to few sand (fine-coarse) and gravel (fine), medium plasticity, moist	8.1	<0.3	
								3.1	1.50	
710							28' Termination of boring.	5.5	0.75	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-512

Project Name: IP - Champaign Former MGP		Elevation: 737.80'	Datum:
Project Number:		Coordinate X: 1012745.98	Coordinate Y: 1257223.40
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/12/04	Date Completed: 07/12/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	73			FI	0' FILL with silty clay, sand and gravel (fine gravel), roots, dark brown, moist. (Fill)			
							9" CLAY with sand, gravel, slag, slight tar-like odor.	12.6	3.00	
								24		
735							2'11" - trace sand black, high plasticity, moist,	27		LAB
		MAC-2 4-8	100				4'5" Silty CLAY with trace sand and gravel, medium plasticity, medium gray, moist.	92	3.00	
	5					CL		57	1.25	
							6' - greenish gray with brown and gray mottling, hydrocarbon odor, wet.	465	2.50	
								455	2.25	
730		MAC-3 8-12	77				8'2" - high plasticity, dark gray, strong hydrocarbon odor, wet.	494	3.00	LAB
								424	1.50	
									<0.5	
	10					SC	9'10" Clayey SAND seam (2"), fine to coarse, dark gray, wet			
							10' Silty CLAY, medium plasticity, greenish-brown with light gray mottling, moist.	440	0.75	
						CL		265	0.75	LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-512

Project Name: IP - Champaign Former MGP		Elevation: 737.80'	Datum:
Project Number:		Coordinate X: 1012745.98	Coordinate Y: 1257223.40
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/12/04	Date Completed: 07/12/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	92				12' - little sand (fine to coarse) and fine gravel, greenish-brown, moist.	45.7	>4.5	
725							13' - no odor.	22	1.25	
							14'1" - 1/4" sand seam, wet.	12.3	4.50	
	15						14'8" Silty CLAY with medium gray mottling. 15' - trace sand and gravel, medium gray with yellow-orange mottling along fractures.	13.6	4.50	
						CL				
		MAC-5 16-20	75				16' - medium gray, moist.	9.4	>4.5	
							17' - trace sand and gravel (fine - coarse).	8.4		
720								9.4	4.50	
								5.6	3.50	
	20	MAC-6 20-24	54				20' - low-medium plasticity	9.6	3.00	
						CL		8.4	2.00	
							22'4" - 1.75" rock.		2.75	
715									2.75	
							24' Termination of boring.	6.2		LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-513

Project Name:	IP - Champaign Former MGP	Elevation: 738.30'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012634.48	Coordinate Y: 1257221.97
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/12/04	Date Completed: 07/12/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	88				0' Silty CLAY with trace sand and roots, dark brown, moist. (Fill).			
						FI	1'4" - cinders, ash, brick, fine gravel, dry-moist.	3.9	1.75	
							2'2" Silty CLAY with trace sand, roots, low plasticity, black.	4.4	1.75	LAB
							2'9" - dark brown with light brown mottling, moist.			
735							3'2" - medium brown with yellow-orange mottling.	3.7	2.00	
							3'8" - yellow-orange with medium brown mottling, occasional roots vertically.		3.00	
		MAC-2 4-8	100				4'4" - light gray w/yellow-orange mottling, roots.	11		
	5					CL		7.7	2.00	
							6' - trace sand and gravel, high plasticity, very moist.	5.4	1.25	
							6'5" - little sand and gravel (fine - coarse sand and fine gravel), wet.			
							6'9" - few sand and gravel, strong hydrocarbon odor, wet.			
							7' - hydrocarbon odor.	6.2		
									0.75	
		MAC-3 8-12	100				8' - yellow-orange.	420		LAB
730							8'4" Clayey SAND (fine - medium), strong hydrocarbon odor, black, wet.			
						SC				
							9'4" Silty CLAY w/trace sand, very soft, high plasticity, greenish brown with light gray mottling, moist.	245	<0.3	
	10							178	0.50	
						CL				
								23.7	1.25	
								31.5	2.75	LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-513

Project Name: IP - Champaign Former MGP		Elevation: 738.30'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012634.48	Coordinate Y: 1257221.97
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/12/04	Date Completed: 07/12/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	67			CL				
725							13' - little sand and gravel (fine to coarse), medium plasticity, no hydrocarbon odor.	7.6	2.75	
							14'2" - 1/8" sand seam (fine to coarse), wet.	8.3	2.75	
	15						15' - occasional yellow-orange mottling along fractures.	2.6	2.75	
		MAC-5 16-20	73			SP	16' SAND seam (1/2") (fine to coarse), wet.	6.7	3.25	
							16'6" Silty CLAY with trace fine to coarse sand and gravel, low plasticity, medium gray, moist.	4.5		
720								3.8	3.75	
								8.0	3.75	
	20	MAC-6 20-24	83			CL		4.8	>4.5	
								1.0		
								7.1	3.25	
715								5.2	2.75	
							24' Termination of boring	5.0	3.00	LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-514

Project Name: IP - Champaign Former MGP	Elevation: 738.30'	Datum: Mean Sea Level	
Project Number: 62400053	Coordinate X: 1012723.21	Coordinate Y: 1257359.07	
Location: 502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in	
Date Started: 07/22/04	Date Completed: 07/22/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	50				0' CLAY, gravel (fine-coarse), brick slag, cinders, dark brown, moist. (Fill)	3.6	0.50	
								6.4	<0.5	
735						FI	3' - dark gray to black.	19.7	0.50	LAB
							3'6" - coarse gravel, heavy hydrocarbon staining, wet.			
		MAC-2 4-8	69				4' - gravel (fine-coarse)	7.9	1.25	
	5							12.2	0.50	
							6' Silty CLAY with trace sand, dark gray-black, no staining, slight tar-like odor, moist.	22.4	1.75	
							6'10" - light gray turning greenish gray with black mottling.	38	1.50	
730		MAC-3 8-12	52					251	1.75	LAB
						CL		74	1.00	
	10						10' - tar-like material in voids and fractures	174	1.00	
								164	1.00	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-514**

Project Name: IP - Champaign Former MGP		Elevation: 738.30'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012723.21	Coordinate Y: 1257359.07
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/22/04	Date Completed: 07/22/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100			SC	12' Clayey SAND (fine-coarse) with trace gravel, dark gray to black, heavily stained with tar-like material, wet.	248	0.50	
							12'6" Silty CLAY with some sand, greenish gray	464	0.50	
725						CL	13'10" - trace sand (fine) and gravel, moist.	632	3.50	
	15						15'4" - sand seam (1") (fine-coarse), poorly graded, heavily stained with tar-like material.	332	3.00	
		MAC-5 16-20	94			SP	16' SAND with few clay, heavily stained with tar-like material.	965	1.25	
							17' Silty CLAY with Verticle sand seam	1021	0.75	LAB
							17'6" - trace sand (fine) and gravel, moist.			
720								662	3.25	
								419	3.75	
	20	MAC-6 20-24	100			CL	20' - medium gray, moist.	7.8	>4.5	
								1.5	2.75	
								1.2	3.00	
715								0.9	4.00	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-514

Project Name:	IP - Champaign Former MGP	Elevation: 738.30'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012723.21	Coordinate Y: 1257359.07
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/22/04	Date Completed: 07/22/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	98					1.6	2.75	
	25							25.9	2.75	
						CL		34.8	2.50	
								9.7	3.50	
710							28' Termination of boring.	11.7	2.50	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-515

Project Name: IP - Champaign Former MGP		Elevation: 738.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012777.17	Coordinate Y: 1257427.29
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/16/04	Date Completed: 07/16/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	88				0' Silty CLAY with fine-coarse sand and fine-coarse gravel, medium brown, no odor, moist. (Fill)	15.2	2.25	
							2'2" - sand, silt, gravel, yellow-orange, dry.	7.7	1.50	LAB
							3' - clay, ash, cinders, gravel, black.	2.2	1.50	
735							3'4" - slight tar-like odor, wet.			
		MAC-2 4-8	33			FI		335		
	5							260		
								319		
								333		LAB
							7'7" CLAY, high plasticity, dark gray, slight tar-like odor.			
		MAC-3 8-12	73				8' Silty CLAY with trace fine sand and fine gravel, high plasticity, brown-green, tar-like material in voids and fractures, moderate tar-like odor.	92.3	1.75	
730								151	1.75	
						CL				
	10							223	1.25	
								202	2.00	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: B-515

Project Name: IP - Champaign Former MGP		Elevation: 738.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012777.17	Coordinate Y: 1257427.29
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/16/04	Date Completed: 07/16/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100				12' - little fine sand and fine gravel, brown-gray to green-brown, light staining with tar-like material in voids and fractures, moist.	277	2.25	
								374	4.00	
725								391	3.75	
	15						14'10" - blocky structure, non plastic, dry.			
						CL	15'3" - green-gray, moist.	549	3.50	
		MAC-5 16-20	100					853	4.50	
							16'8" - dark gray, moderate staining with tar-like material in voids and fractures; moderate odor.			
								1031	4.50	
								1291	>4.5	
720										
								1404	3.50	LAB
	20	MAC-6 20-24	100				20' Sandy CLAY, fine-medium, wet.	1348	4.50	
						CL				
							21'3" Silty CLAY with little fine sand and fine gravel, medium gray, no tar-like material visible, slight odor, moist.	125	<0.5	
								461	>4.5	
							23' - trace tar-like material in fracture.	241	>4.5	
715										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-515

Project Name:	IP - Champaign Former MGP	Elevation: 738.40'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012777.17	Coordinate Y: 1257427.29
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/16/04	Date Completed: 07/16/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	67				24' - little to few sand and gravel, medium plasticity, no visible tar-like material or odor.	377	>4.5	
	25							108	2.75	
						CL		82.6	3.25	
								72.1	3.00	
710		MAC-8 28-32	100					1.4	3.00	
								0.7	2.50	
	30					CL	30' - little fine-coarse sand and gravel, medium gray, moist.	0.4	1.75	
							31' - few fine-coarse sand and gravel, low-medium plasticity.	0.5	1.50	
							32' Termination of boring.	0.8	2.50	LAB
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-516

Project Name: IP - Champaign Former MGP		Elevation: 738.20'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012824.38	Coordinate Y: 1257345.84
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/22/04	Date Completed: 07/22/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code		Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	96				0'	FILL, clay, silt, sand (fine-coarse), gravel (fine-coarse), crushed rock, roots, dark brown, moist.			
							1'	- few sand (9" layer).	2.7	0.75	
						FI	2'	- cinders, light tar-like odor.	2.5	1.00	
							2'9"	- trace sand (fine) and trace gravel, trace brick, dark gray to black.			
735									3.6	1.25	LAB
		MAC-2 4-8	100				4'3"	- moderate tar-like odor.	76.5	2.00	
	5								200	1.00	LAB
						FI	6'	- tar-like material in voids and fractures.	101	1.75	
									120	0.75	
730		MAC-3 8-12	75				8'	Silty CLAY with little sand (fine), no visible contamination, light brown with light gray and yellowish-orange mottling, moist.	34.8	1.00	
						CL			14.7	1.25	
							9'10"	- tar-like material in voids and fractures.			
	10					SP	10'3"	SAND (4" layer) (fine-coarse) poorly graded, moist.	36.9	3.00	
							10'7"	Silty CLAY with trace sand (fine), trace gravel (fine-coarse), little to no odor, no visible tar-like material, greenish gray-light brown.			
						CL			5.5	3.75	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: B-516

Project Name: IP - Champaign Former MGP		Elevation: 738.20'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012824.38	Coordinate Y: 1257345.84
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/22/04	Date Completed: 07/22/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100				12' - light staining along fractures 12'2" - no visible tar-like material or odor.	10	3.25	
725								8.2	3.50	
							13'8" SAND seam (1/4-1/2") (fine-coarse), heavily stained. 13'8.5" Silty CLAY with trace fine sand, trace fine-coarse gravel, tar-like material in fracturesand voids.			
							14' - no staining or odor	168	3.75	LAB
	15							53.8	4.00	
						CL				
		MAC-5 16-20	100				16' - medium gray, moist.	5.1	4.25	
								4.5	3.00	
720								4.2	3.00	
								3.3	2.00	
	20	MAC-6 20-24	100			CL		3.8	1.50	
								15.4	2.75	
								12.9	2.75	
715								8.3	4.25	
							24' Termination of boring.	2.8	4.00	LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-550

Project Name: IP - Champaign Former MGP		Elevation: 737.30'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012670.00	Coordinate Y: 1257553.04
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/20/04	Date Completed: 07/20/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	67				0' Silty CLAY with gravel, brick, roots, dark gray-black, moist. (Fill)	2.1	0.75	
735						FI	2'4" - fine-coarse gravel, petroleum odor, wet.	2.3	0.75	
							3'4" - dark gray-black mottled with greenish gray, tar-like odor.	53.8	1.00	LAB
		MAC-2 4-8	81				4' - black mottled with light gray mottling, heavy staining with hydrocarbon like material (degraded).	84	1.00	
	5						4'10" - fibrous material. (Fill) 5' Silty CLAY	69.3	2.00	
								39.6	1.75	
730								65.6	1.75	
		MAC-3 8-12	96			CL	8' - roots, light staining. 8'2" - tar-like material in voids and fractures.	18.3	2.00	
								105	<0.5	LAB
	10							75.8	0.75	
							10'5" - light gray-greenish gray with orange mottling, heavily stained.	164	1.00	LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-550

Project Name: IP - Champaign Former MGP		Elevation: 737.30'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012670.00	Coordinate Y: 1257553.04
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/20/04	Date Completed: 07/20/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725		MAC-4 12-16	81				12'5" Sandy CLAY layer with fine-coarse sand and trace gravel, greenish gray, heavily stained, wet.	133	0.50	
							12'8" Silty CLAY w/trace fine-coarse gravel.	125	0.50	
							13'7" - greenish gray with light gray and orange mottling.			
							13'11" - moist.	91	3.25	
	15					CL		13.3	2.75	
		MAC-5 16-20	94					2.4	3.25	LAB
720							17' - greenish gray with orange mottling and slight tar-like odor.	2.0	2.00	
							18' - no odor.	1.2	2.75	
								1.3	2.50	
	20	MAC-6 20-24	100			CL		1.2	4.00	
							21' - medium gray.	0.5	1.25	
715								0.8	3.50	
								0.3	3.75	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-550

Project Name: IP - Champaign Former MGP		Elevation: 737.30'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012670.00	Coordinate Y: 1257553.04
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/20/04	Date Completed: 07/20/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
	25	MAC-7 24-28	50			CL		0.6	2.75	
								0.6	2.00	
								0.3	>4.5	
710								0.6	1.75	
							28' Termination of boring.	0.4	3.00	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-551

Project Name: IP - Champaign Former MGP		Elevation: 737.90'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012720.53	Coordinate Y: 1257553.39
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	67				0' FILL, coal and coal fines, brick, cinders, trace fine gravel, dark brown. (Fill)			
								1.2		
						FI		11.5		
735							3'3" - dark brown with black mottling, wet.	16.4	2.25	LAB
		MAC-2 4-8	0				4' - no recovery, wet. (Fill)	20.7		
	5					NR				
730		MAC-3 8-12	100				8' - cinders mixed w/black clay, high plasticity, slight tar-like odor, wet.			
							9' CLAY, high plasticity, black.	60.2	1.50	
							9'6" - medium gray with black mottling, wet.			
	10							146	1.50	LAB
						CL				
							11' - trace fine sand, trace tar-like material in voids and fractures, slight odor.	57.7	1.50	
							11'8" Sandy CLAY (fine to medium sand) with heavy staining, strong odor, wet.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-551

Project Name:	IP - Champaign Former MGP	Elevation: 737.90'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012720.53	Coordinate Y: 1257553.39
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100				12' Silty CLAY with trace fine to coarse sand and fine gravel, green-gray with orange-brown mottling, low-medium plasticity, trace tar-like material in voids and fractures, moist.	183		
725								54.8	>4.5	
							13'5" - little sand and gravel, light gray with no tar-like material or odor, dry.			
								29.1	>4.5	
	15					CL		13.7	>4.5	
		MAC-5 16-20	79				16' - trace fine to coarse sand and fine gravel, medium gray, slightly moist-dry.	11.8	>4.5	LAB
								3.2	>4.5	
720								6.2	>4.5	
								3.3	>4.5	
	20	MAC-6 20-24	100			CL	20' - little fine to coarse sand and fine gravel, low plasticity, medium gray.	1.1		
								39.6	>4.5	
								17.3	>4.5	
715								8.9	>4.5	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-551

Project Name: IP - Champaign Former MGP		Elevation: 737.90'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012720.53	Coordinate Y: 1257553.39
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	100					4.4	>4.5	
	25							2.0	>4.5	
						CL		3.6	3.50	
								3.0	4.00	
710							28' Termination of boring.	3.9	4.00	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-553

Project Name: IP - Champaign Former MGP	Elevation: 737.80'	Datum: Mean Sea Level	
Project Number: 62400053	Coordinate X: 1012778.31	Coordinate Y: 1257534.21	
Location: 502 E. Hill St. Champaign, Illinois	Total Depth: 32.00'	Borehole Dia.: 2.25in	
Date Started: 07/14/04	Date Completed: 07/14/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	85				0' SAND, coal fines, cinders, fine-coarse gravel, dark brown, moist. (Fill).	3.1	<0.5	
							1'11" - no sand, brick, black.	4.7		
							2'5" - slight tar-like odor, wet.			
735						FI	3' - sand, coal fines, cinders, black.	20.3	2.75	LAB
		MAC-2 4-8	100					384		
	5						5'3" CLAY, high plasticity, black, heavily stained, strong tar-like odor, moist.	303		
								364	3.75	LAB
							7'2" - light gray along fractures.	308	2.75	
730		MAC-3 8-12	100			CL	8' Silty CLAY with trace sand and gravel (fine), tar-like material in voids and fractures, moist.	86.7	2.75	
	10							99.8	0.75	
							11'6" - green-gray.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-553

Project Name:	IP - Champaign Former MGP	Elevation: 737.80'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012778.31	Coordinate Y: 1257534.21
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/14/04	Date Completed: 07/14/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	88				12' - 1/4" fine to medium sand seam, heavily stained.	188	2.25	
							12'6" - brown-gray, low plasticity.			
725							13' Silty CLAY w/trace to little sand and gravel, low plasticity, tar-like material in voids and fractures, moderately stained, moist.	225	4.00	
						CL		547	3.75	
	15							545	>4.5	LAB
							15'6" - light gray mottling, light staining.			
		MAC-5 16-20	100					240	>4.5	
								131	>4.5	
							17'6" - medium gray with occasional red-brown mottling, no tar-like material or staining.			
720							18'3" - trace tar-like material in voids and fractures, moderate odor.	147	>4.5	
								414	>4.5	
	20	MAC-6 20-24	100				20' - trace fine to coarse sand and fine gravel	490	1.00	
						CL		29.8	3.00	
								945	>4.5	
715						ML	22'10" SILT, black, heavily stained with tar-like material (strong odor).	998	>4.5	
						CL	23'1" Silty CLAY w/trace fine-coarse sand and fine gravel, medium gray, non-plastic, light staining.			
						SP	23'5" SAND (fine to coarse) with trace gravel, heavily stained, wet.			
						CL	23'8.5" Silty CLAY (same as 23'1"description).			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-553**

Project Name:	IP - Champaign Former MGP	Elevation: 737.80'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012778.31	Coordinate Y: 1257534.21
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/14/04	Date Completed: 07/14/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	100			SP	24' SAND (fine to coarse) with trace fine gravel, heavily stained, wet.	2241		LAB
	25						25'2" Silty CLAY with trace fine gravel, low plasticity, light staining in voids and fractures, moist.	1963		
								1558	3.00	
								374	>4.5	
710		MAC-8 28-32	100			CL	28'4" - little sand and gravel, no staining or tar-like material, slight odor.	440		
								19.6	3.50	
	30							4.4	3.25	
								0.9	>4.5	
							32' Termination of boring.	3.4	>4.5	LAB
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-554

Project Name: IP - Champaign Former MGP	Elevation: 737.50'	Datum: Mean Sea Level	
Project Number: 62400053	Coordinate X: 1012836.96	Coordinate Y: 1257519.32	
Location: 502 E. Hill St. Champaign, Illinois	Total Depth: 32.00'	Borehole Dia.: 2.25in	
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	69				0' Silty CLAY with roots, sand, trace gravel,coal, coal fines, no odor. (Fill)			
								3.0	<0.5	
						FI		3.3		
735							2'8" - brick, degraded, wet.	13.2		LAB
							3'6" CLAY, high plasticity, black, moist.		1.50	
							3'8" - slight tar-like odor.			
		MAC-2 4-8	100				4' - low plasticity.	52.5		
	5						5' - dark gray, high plasticity, trace tar-like material in voids and fractures, moderate odor.	102	1.50	
						CL				
							6' - medium gray, tar-like material in voids and fractures.	132	1.75	
							7' - green-gray, slight tar-like odor.	145	1.75	
730										
		MAC-3 8-12	92				8' - high plasticity, heavily impacted with oily hydrocarbons, faint odor, trace tar-like material in voids and fractures.	151	2.00	
								105		
	10							156	1.25	LAB
						CL	10'6" - medium gray.			
							11' - little tar-like material in voids and fractures.	77.6	1.25	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-554**

Project Name: IP - Champaign Former MGP		Elevation: 737.50'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012836.96	Coordinate Y: 1257519.32
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725		MAC-4 12-16	79				12' Silty CLAY with little fine to coarse sand and gravel (gravel 1.75" at 13'6" depth), low plasticity, light brown, no staining or odor.	97.6	0.50	
							13' - medium gray.	42.9	3.25	
							13'8" - few fine to coarse sand and gravel, green-gray.	22.6	3.50	
						CL				
	15							11.9	3.50	
		MAC-5 16-20	100					4.2	3.25	
								31.6	3.25	
720						SP	17'2" SAND (1" seam) (fine), heavily stained, strong odor. 17'3" Sandy CLAY, green-gray. 17'6" Silty CLAY, few sand and gravel, brown-green, low plastic, tar-like material in voids and fractures, moist.	892	3.75	LAB
							18' - little sand and gravel, no staining or odor.			
								32.4	3.75	
	20	MAC-6 20-24	100					28.5	3.50	
						CL				
							21' - with trace-little fine to coarse sand and fine gravel, medium gray.	30	3.00	
								30.1	2.75	
715								11.6	2.75	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-554

Project Name: IP - Champaign Former MGP		Elevation: 737.50'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012836.96	Coordinate Y: 1257519.32
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	0			CL	24' CLAY, very soft, green-gray, light staining and odor, wet.	2.6	4.25	
	25							476	<0.5	
						SP	25'6" SAND (1" seam) (fine to medium), heavily stained. 25'7" Silty CLAY with trace sand and gravel, green-gray, light staining. 26' - little fine to coarse sand and fine gravel.	553	2.50	
								5.8	2.75	
710		MAC-8 28-32	54					2.5	2.75	
						CL	28' - medium gray, no staining or odor.	1.8	1.50	
	30							1.5	1.50	
								2.2	1.50	
							32' Termination of boring.	1.2	2.25	LAB
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-556**

Project Name: IP - Champaign Former MGP		Elevation: 737.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012878.12	Coordinate Y: 1257486.11
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/20/04	Date Completed: 07/20/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	90				0' FILL, clay, silt, some loose gravel (fine-coarse), ash cinders, dark gray to black, moist.			
								2.5	0.50	
						FI				
735								4.1	0.75	
							3' Silty CLAY (natural material) slight tar-like odor.	6.4	2.50	LAB
		MAC-2 4-8	100				4' - moderate staining	52.1	1.75	
	5							174	1.50	
							5'6" - greenish gray with dark gray to black mottling, visible tar-like material in fractures and voids.			
								295	1.75	LAB
							7' - no staining, slight tar-like odor.	184	1.50	
730						CL				
		MAC-3 8-12	98				8' - greenish gray, tar-like material in fractures and voids.	119	1.75	
								34.4	2.25	
							9'8" - few sand, light gray/brown (mottled).			
	10							105	2.00	
							11' - fine-coarse gravel, trace tar-like blebs, wet.	60.9	0.75	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: B-556

Project Name: IP - Champaign Former MGP		Elevation: 737.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012878.12	Coordinate Y: 1257486.11
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/20/04	Date Completed: 07/20/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
725		MAC-4 12-16	96				12' - few sand	66.2	2.50	
							13' - light brown/greenish gray, no staining, slight odor, moist.	70.1	3.75	
								12.2	3.00	
	15					CL	15' - no odor	136	1.00	
		MAC-5 16-20	96					12.2	3.25	
							16'6" - trace sand, gravel (fine-coarse), slight odor.			
							17' - heavy staining, tar-like material in fractures and voids.	11.7	3.25	
720										
								288	2.75	
							18'6" Silty CLAY			
								500	2.50	
	20	MAC-6 20-24	90			CL	20' - no staining or odor.	518	4.00	LAB
								1.5	3.00	
							21'6" - trace sand, light gray.			
								1.5	2.50	
715										
								1.3	3.25	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-556

Project Name: IP - Champaign Former MGP		Elevation: 737.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012878.12	Coordinate Y: 1257486.11
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/20/04	Date Completed: 07/20/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	67					1.4	3.50	
	25							3.4	2.25	
						CL		0.7	4.50	
								2.4	>4.5	
710							28' Termination of boring.	2.3	>4.5	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-557**

Project Name: IP - Champaign Former MGP		Elevation: 737.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012955.23	Coordinate Y: 1257474.31
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/20/04	Date Completed: 07/20/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	69				0' FILL, clay, silt, gravel, roots, cinders, dark gray to black, moist.	3.4	1.25	LAB
						FI		1.0	1.75	
735							2'4" Silty CLAY with trace sand, dark gray with greenish gray mottling.	0.6	1.25	
		MAC-2 4-8	100					0.9	1.00	
	5						4'10" - trace roots, trace gravel, greenish gray with orange mottling.	2.2	0.50	
							6' - slight tar-like odor.	1.9	1.25	
								2.2	1.25	
730						CL				
		MAC-3 8-12	100				8' - trace sand and gravel.	2.2	1.50	
							8'6" - tar-like material in fractures and voids.	5.1	0.50	
	10							12.3	1.25	LAB
									0.75	
							11'10" - fine-coarse sand and fine-coarse gravel, lightly stained.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-557**

Project Name: IP - Champaign Former MGP		Elevation: 737.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012955.23	Coordinate Y: 1257474.31
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 24.00'	Borehole Dia.: 2.25in
Date Started: 07/20/04	Date Completed: 07/20/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	88			CL	12'6" - trace fine sand, wet.	55.1	1.50	LAB
725							12'10" Clayey SAND with trace coarse gravel, greenish gray with tar-like blebs.			
						SC		5.6	<0.5	
							13'5" Silty CLAY with trace sand (fine-coarse) and gravel (fine-coarse), medium gray, moist.			
								40.8	>4.5	
	15							18.6	2.75	
		MAC-5 16-20	100				16' - three 1"layers of sand (fine-coarse), trace fine-coarse gravel.	6.8	>4.5	
								2.4	>4.5	
720							18' - medium-dark gray.	3.4	4.50	
						CL		2.6	>4.5	
	20	MAC-6 20-24	0					2.5	4.25	
								0.6	>4.5	
								1.7	4.25	
715								1.8	>4.5	
							28' Termination of boring.	3.0	>4.5	LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-558**

Project Name: IP - Champaign Former MGP		Elevation: 737.70'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1013041.62	Coordinate Y: 1257433.54
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	100				0' Silty CLAY with sand, gravel, ash, cinders, roots, dark gray-black, moist. (Fill)			
						FI		4.0	<0.5	
							2'2" - medium brown.	4.2	2.00	LAB
735							3'1" - dark brown.	1.2	2.00	
		MAC-2 4-8	100				4' - light gray with brown mottling.	2.2	1.75	
	5							3.4	1.50	
							5'10" - slight tar-like odor.			
						CL		4.4	2.00	
							6'9" - tar-like material in fractures.	31.6	2.00	LAB
730										
		MAC-3 8-12	100					22.4	1.75	
								3.4	4.25	
	10						10'1" SAND, 2" layer (fine-coarse), wet.	4.8	4.25	
							10'3" Clayey SAND with trace gravel, light brown-gray, no staining, moist.			
						SC		10.8	0.75	
							11'5" Silty CLAY, olive gray-dark gray w/yellow-orange mottling, tar-like material in fractures, slight odor.			
						CL	12' Sandy CLAY with some gravel, brown-gray.	23.2	<0.5	LAB

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: B-558

Project Name: IP - Champaign Former MGP		Elevation: 737.70'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1013041.62	Coordinate Y: 1257433.54
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	100					7.7	3.25	
725										
							14' - slight tar-like odor.	4.7	3.75	
	15							4.8	2.25	
						CL				
		MAC-5 16-20	88				16' Silty CLAY with few fine-coarse sand and gravel, medium gray.	6.4	3.50	
							17' - no odor.	4.0	>4.5	
720							18' - tar-like material in fractures (1" section).	7.0	4.00	LAB
								14.3	>4.5	
	20	MAC-6 20-24	83				20' - ~1 1/2" rock.	8.2	3.75	
						CL		4.2	>4.5	
								3.1	>4.5	
715								3.2	>4.5	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-558

Project Name:	IP - Champaign Former MGP	Elevation: 737.70'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1013041.62	Coordinate Y: 1257433.54
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	79					2.2	4.25	
	25					CL		2.8	3.75	
								3.3	3.25	
								3.3	4.00	
710						SW	27'10"SAND (fine-medium) well graded, very loose, medium gray. 28' Termination of boring.	0.8		LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-559

Project Name: IP - Champaign Former MGP		Elevation: 736.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1013034.71	Coordinate Y: 1257297.18
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	100				0' Silty CLAY with gravel, ash, loose cinders, roots, dark gray-black, moist. (Fill)		2.75	
							9" - harder fill, some coal bits, dark brown-gray.	1.3	2.25	
735						FI				
							2'2" - large coarse pieces of slag.	1.5		
							2'6" Silty CLAY, dark brown.			
								1.7	1.75	LAB
							3'7" - medium gray-brown with black mottling.			
		MAC-2 4-8	100				4' Sandy CLAY, medium gray.	1.8	1.50	
							4'6" Silty CLAY with few fine gravel, greenish-gray mottled with orange mottling, moist.			
	5							2.9	2.00	
								3.2	1.75	
730										
								2.6	2.00	
						CL	7'4" - greenish gray-brown with black mottling.			
							7'8" - dark brown.			
		MAC-3 8-12	100					3.7	1.25	LAB
								2.9	0.50	
	10							2.0	0.75	
								3.0	2.75	
725										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-559

Project Name:	IP - Champaign Former MGP	Elevation: 736.40'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1013034.71	Coordinate Y: 1257297.18
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	79					2.6	4.50	
								3.4	2.50	
							14' - trace fine gravel.	3.9	2.75	
	15					CL		3.1	3.75	
		MAC-5 16-20	100				16' - light gray.	3.2	>4.5	
720								3.9	4.25	
								3.1	3.00	
							18'8" - coarse gravel	4.4	>4.5	LAB
	20	MAC-6 20-24	88				20' - medium gray.	3.1	>4.5	
						CL		2.3	2.75	
715								2.5	2.75	
								2.6	3.25	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-559

Project Name: IP - Champaign Former MGP		Elevation: 736.40'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1013034.71	Coordinate Y: 1257297.18
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/19/04	Date Completed: 07/19/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: J. Scholbe	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	90				24' Sandy CLAY (2" layer).	1.8	4.00	
	25						25' Sandy, Silty CLAY with some fine gravel.	4.0	>4.5	
						CL		3.9	>4.5	
710								3.7	2.50	
							28' Termination of boring.	3.7	4.00	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-560

Project Name: IP - Champaign Former MGP		Elevation: 736.50'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1013032.65	Coordinate Y: 1257346.53
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	75				0' FILL with silty clay, sand, gravel, ash, cinders, trace brick, moist. (Fill)	5.0		
735						FI		1.8		
								9.0		LAB
		MAC-2 4-8	100				4'3" CLAY, high plasticity, medium gray-black, moist.	0.6	3.25	
	5						5' - light gray with yellow-orange mottling.	1.3	1.50	LAB
								0.5	2.25	
730										
						CL		0.5	1.25	
		MAC-3 8-12	100				9' - high plasticity, very soft.	0.8	1.75	
								0.6	0.50	
	10							0.6		
						SC	10'2" Clayey SAND green-gray, wet.			
						SP	10'4" SAND (fine-coarse), no odor, wet.			
						CL	10'7" CLAY with some sand.	0.5		
							11'1" SAND, same as above.			
725						SW	11'4" - light tar-like staining with slight odor.			
							11'8" - moderate staining.			

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-560

Project Name: IP - Champaign Former MGP		Elevation: 736.50'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1013032.65	Coordinate Y: 1257346.53
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	81			SW		80.5		
							13' - black with heavy staining, wet.			
							13'1" Silty CLAY with trace sand, green-gray, medium plasticity, no staining or odor.	333		LAB
								15.2	1.75	
	15							7.4	4.00	
		MAC-5 16-20	100					4.2	>4.5	
720										
							17' - blocky structure, medium gray, low plasticity.	4.8	>4.5	
							18' - little fine-coarse sand and gravel.		4.00	
									>4.5	
	20	MAC-6 20-24	100					5.4	>4.5	LAB
						CL				
								2.6	>4.5	
715										
								2.2	>4.5	
								1.5	>4.5	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

PSC

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: B-560

Project Name: IP - Champaign Former MGP		Elevation: 736.50'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1013032.65	Coordinate Y: 1257346.53
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	100				24' - medium gray.	2.7	>4.5	
	25							2.2	>4.5	
						CL	26' - little-few fine-coarse sand and gravel.	2.0	>4.5	
710								2.3	>4.5	
							28' Termination of boring.	8.8	>4.5	LAB
	30									
705										
	35									

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-561

Project Name: IP - Champaign Former MGP		Elevation: 735.90'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012797.45	Coordinate Y: 1257572.41
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-1 0-4	69				0' FILL with silty clay, trace sand and fine gravel, roots, glass, trace coal pieces, dark brown to black, moist. (Fill)	3.0		LAB
735								0.7	2.00	
						FI	3' CLAY, trace sand and gravel, trace coal, high plasticity, dark brown. (Fill)	1.4	1.25	
		MAC-2 4-8	100				4' - same as above with brick and shards of china.	0.3		
	5						5' Silty CLAY with trace fine sand, root channels, high plasticity, light gray w/orange-brown mottling.	1.6	1.00	
730								1.8	2.25	
							7' - trace tar-like material in voids and fractures; slight odor.	15.5	1.00	
		MAC-3 8-12	100			CL	8' - brown-gray, very soft, moderately stained with tar-like material in voids and fractures; moderate odor, wet.	34.3	0.50	
							8'9" - some fine to medium sand, heavily stained (1" sand lens). 8'10" - little sand.			
							9'3" - lens of sand and fine gravel (1/4"). 9'4" - lenses of sand and fine gravel (1/4"). 9'5" - trace-little fine to coarse sand and fine gravel, brown-gray, trace tar-like material in voids and fractures, moist.	101	<0.5	
	10							214	4.00	LAB
725							10'10" Clayey SAND (fine-medium), trace fine gravel, four 1/4" thick layers over 7" interval, lightly stained, wet.	39.1		
						SC				

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID: **B-561**

Project Name: IP - Champaign Former MGP		Elevation: 735.90'	Datum: Mean Sea Level
Project Number: 62400053		Coordinate X: 1012797.45	Coordinate Y: 1257572.41
Location: 502 E. Hill St. Champaign, Illinois		Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	96			SP	12' SAND (fine to medium, trace coarse), brown, light staining.	227		
							12'6" Silty CLAY, trace sand and gravel, brown-gray, staining in voids and fractures, moist.			
							13' - no staining or odor.	356	4.00	LAB
								1.1	>4.5	
	15							3.4	>4.5	
							15'9" - light gray mottling.			
720		MAC-5 16-20	96				16' - medium-gray, trace tar-like material in occasional voids and fractures.	15.2		
							17' - trace coarse gravel (1").	98.3	>4.5	
						CL	18' - no staining or odor.	84.5	>4.5	
								6.2	>4.5	LAB
	20	MAC-6 20-24	98				20' - trace gravel (1.25"), low-medium plasticity.	1.3	>4.5	
715								0.6	>4.5	
								0.8	>4.5	
								1.3	3.50	

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-561

Project Name:	IP - Champaign Former MGP	Elevation: 735.90'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012797.45	Coordinate Y: 1257572.41
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 32.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-7 24-28	65					0.5	>4.5	
	25							1.3	4.50	
710								1.5	4.25	
								1.4	3.75	
		MAC-8 28-32	0			CL				
								0.6	3.75	
	30							0.8	1.75	
705								0.9	1.75	
							32' Termination of boring.	0.3	>4.5	LAB
	35									
700										

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-562

Project Name:	IP - Champaign Former MGP	Elevation: 735.50'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012834.23	Coordinate Y: 1257558.03
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
735		MAC-1 0-4	58			FI	0' FILL with silty clay, sand and gravel, roots, glass, brick, trace coal, dark brown, no odor, moist. (Fill)	5.9		LA
								0.9		
								0.4		
							3'8" CLAY, soft with fractures and channels, high plasticity, dark gray, moist . (Fill)			
		MAC-2 4-8	0					0.7	1.25	
	5						5' - light gray with orange-brown mottling.	0.4	1.75	
730								1.4	1.50	
						CL		0.7	1.50	
		MAC-3 8-12	0				8' Silty CLAY with trace sand and fine gravel, very soft, high plasticity, trace tar-like material in voids and fractures, slight odor, moist-wet.	24.2	1.00	
							9'3" - little fine-medium sand and fine gravel, 1/4" layer heavily stained with tar-like material.	15.6	0.50	
							9'10" - few sand.			
	10							46.7	<0.5	LA
725							10'5" SAND (fine-coarse), some clay, trace fine gravel, light gray with moderate staining, wet.			
						SW		190		

Remarks:

RECORD OF SUBSURFACE EXPLORATION

BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-562

Project Name:	IP - Champaign Former MGP	Elevation: 735.50'	Datum: Mean Sea Level
Project Number:	62400053	Coordinate X: 1012834.23	Coordinate Y: 1257558.03
Location:	502 E. Hill St. Champaign, Illinois	Total Depth: 28.00'	Borehole Dia.: 2.25in
Date Started: 07/15/04	Date Completed: 07/15/04	Township/Range: Sec 7; T19N; R9E	
Consultant: Kelron	Drilled By: Transhield		
Logged By: S. Cravens	Drilling Method: GeoProbe		

Elevation (feet)	Depth (feet)	Sample Number & Depth Interval	Recovery Percent	Recovery	Graphic Log	USCS Code	Material Description	PID Reading (ppm)	Penetrometer (tsf)	Lab Sample
		MAC-4 12-16	0			SC	12' Clayey SAND same as above, moderate staining.	168		
								351		
							14'3" Silty CLAY with trace-little fine-coarse sand and fine gravel, low plasticity, green-gray, little tar-like material in voids, fractures and sandy layers, moderate odor.	509		LAB
	15							507	4.50	
720		MAC-5 16-20	100				16' - medium-gray, no staining with slight odor.	482	>4.5	
								35.4	>4.5	
							18' - no odor.	44.8	>4.5	
						CL		36.9	>4.5	
	20	MAC-6 20-24	100					27.8	>4.5	
715								0.9	>4.5	
								0.4	>4.5	
								1.3	>4.5	

Remarks:

APPENDIX J

Monitoring Well Water Level Data

Table 1
Groundwater Elevation Data
Annual Groundwater Monitoring Report: 1999

Illinois Power Company
Champaign Former MGP Site
Champaign, Illinois

Monitoring Well Number	Total Depth (feet)	Monitored Interval (feet BLS)	Elevation (feet NGVD)		March 25, 1999		June 16, 1999		Sept. 14, 1999		December 8, 1999	
			Measuring Point (MP)	Land Surface (LS)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)
UMW-101 [1]	26.5	16.3 - 26.5	736.00	736.3	--	--	--	--	Removed			
UMW-102	22.0	6.7 - 22.0	737.44	737.8	6.2	731.24	4.85	732.59	6.68	730.76	6.71	730.73
UMW-103 [2]	20.0	9.8 - 20.0	736.27	736.5	--	--	--	--	Removed			
UMW-104	20.0	9.9 - 20.0	736.02	736.5	--	--	1.92	734.1	--	--	3.19	732.83
UMW-105	19.7	9.5 - 19.7	737.45	737.8	--	--	--	--	7.22	730.23	6.50	730.95
UMW-106	20.0	9.8 - 20.0	737.12	737.7	--	--	--	--	10.13	726.99	9.50	727.62
UMW-107	19.7	9.5 - 19.7	736.98	737.3	6.4	730.58	4.88	732.1	6.05	730.93	7.50	729.48
UMW-108	15.0	4.8 - 15.0	736.95	737.2	5.825	731.125	4.99	731.96	7.25	729.70	7.46	729.49
UMW-109	20.0	10.0 - 20.0	735.22	735.7	8.75	726.47	6.82	728.4	7.28	727.94	7.15	728.07
UMW-110	21.0	10.8 - 21.0	736.88	737.4	--	--	--	--	3.89	732.99	4.04	732.84
UMW-111	19.8	9.1 - 19.8	735.72	736.1	--	--	4.32	731.4	Removed			
UMW-111A	22.8	9.0 - 22.8	736.90	737.2					17.52	719.38	15.22	721.68
UMW-112	20.0	9.9 - 20.0	737.61	737.9	3.85	733.76	2.5	735.11	4.84	732.77	4.71	732.90
UMW-113	20.0	10.0 - 20.0	740.19	738.0	--	--		740.19	7.96	732.23	7.27	732.92
UMW-114	20.0	10.0 - 20.0	740.31	738.2	6.2	734.11	5.34	734.97	7.81	732.50	6.10	734.21
UMW-115	20.0	10.0 - 20.0	740.20	738.1	5.775	734.425	5.12	735.08	7.30	732.90	7.99	732.21
UMW-116	20.0	10.0 - 20.0	736.77	737.2	5.15	731.62	4.67	732.1	7.25	729.52	7.69	729.08

-- Not measured

[1] No groundwater level measurements due to tar in well.

[2] Coal tar thickness at base of well measured at approximately 0.4 feet on November 10, 1998.

Table 1
Groundwater Elevation Data
Annual Groundwater Monitoring Report: 2000

Illinois Power Company
Champaign Former MGP Site
Champaign, Illinois

Monitoring Well Number	Total Depth (feet)	Monitored Interval (feet BLS)	Elevation (feet NGVD)		March 2, 2000		June 15, 2000		September 26, 2000		December 27, 2000	
			Measuring Point (MP)	Land Surface (LS)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)
UMW-101 [1]												
UMW-102	22.0	6.7 - 22.0	737.44	737.8	5.28	732.16	5.67	731.77	5.57	731.87	5.76	731.68
UMW-103 [1]												
UMW-104	20.0	9.9 - 20.0	736.02	736.5	2.35	733.67	2.49	733.53	2.57	733.45	--	--
UMW-105	19.7	9.5 - 19.7	737.45	737.8	5.24	732.21	5.75	731.70	6.70	730.75	--	--
UMW-106	20.0	9.8 - 20.0	737.12	737.7	8.45	728.67	8.63	728.49	10.36	726.76	--	--
UMW-107	19.7	9.5 - 19.7	736.98	737.3	6.15	730.83	5.37	731.61	5.67	731.31	5.26	731.72
UMW-108	15.0	4.8 - 15.0	736.95	737.2	5.5	731.45	6.08	730.87	6.61	730.34	6.43	730.52
UMW-109	20.0	10.0 - 20.0	735.22	735.7	7.93	727.29	6.70	728.52	6.95	728.27	6.92	728.30
UMW-110	21.0	10.8 - 21.0	736.88	737.4	3.24	733.64	--	--	--	--	--	--
UMW-111 [2]												
UMW-111A	22.8	9.0 - 22.8	736.90	737.2	16.26	720.64	9.36	727.54	10.72	726.18	9.17	727.73
UMW-112	20.0	9.9 - 20.0	737.61	737.9	3.46	734.15	3.65	733.96	3.14	734.47	4.54	733.07
UMW-113	20.0	10.0 - 20.0	740.19	738.0	---	---	6.63	733.56	--	--	7.15	733.04
UMW-114	20.0	10.0 - 20.0	740.31	738.2	5.85	734.46	6.81	733.50	7.43	732.88	7.18	733.13
UMW-115	20.0	10.0 - 20.0	740.20	738.1	5.57	734.63	6.15	734.05	7.25	732.95	6.38	733.82
UMW-116	20.0	10.0 - 20.0	736.77	737.2	6.46	730.31	4.95	731.82	5.41	731.36	5.42	731.35

-- Not measured

[1] Removed due to tar in well.

[2] Abandoned and replaced by UMW-111A

Table 1
Groundwater Elevation Data
Annual Groundwater Monitoring Report: 2001

Illinois Power Company
Champaign Former MGP Site
Champaign, Illinois

Monitoring Well Number	Total Depth (feet)	Monitored Interval (feet BLS)	Elevation (feet NGVD)		March 8, 2001		June 25, 2001		September 6, 2001		December 27, 2000	
			Measuring Point (MP)	Land Surface (LS)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)	Below MP (feet)	Elevation (feet NGVD)
UMW-102	22.0	6.7 - 22.0	737.44	737.8	4.81	732.63	6.15	731.29	5.96	731.48	5.49	731.95
UMW-104	20.0	9.9 - 20.0	736.02	736.5	2.54	733.48	3.17	732.85	3.93	732.09	2.72	733.30
UMW-105	19.7	9.5 - 19.7	737.45	737.8	5.79	731.66	6.76	730.69	7.34	730.11	5.82	731.63
UMW-106	20.0	9.8 - 20.0	737.12	737.7	6.64	730.48	8.77	728.35	10.67	726.45	8.96	728.16
UMW-107	19.7	9.5 - 19.7	736.98	737.3	5.12	731.86	5.72	731.26	5.75	731.23	5.12	731.86
UMW-108	15.0	4.8 - 15.0	736.95	737.2	5.48	731.47	6.70	730.25	6.96	729.99	5.46	731.49
UMW-109	20.0	10.0 - 20.0	735.22	735.7	6.76	728.46	7.13	728.09	7.11	728.11	6.96	728.26
UMW-110	21.0	10.8 - 21.0	736.88	737.4	1.27	735.61	3.46	733.42	2.71	734.17	2.35	734.53
UMW-111A	22.8	9.0 - 22.8	736.90	737.2	9.03	727.87	9.16	727.74	9.56	727.34	8.65	728.25
UMW-112	20.0	9.9 - 20.0	737.61	737.9	3.52	734.09	4.42	733.19	4.02	733.59	3.88	733.73
UMW-113	20.0	10.0 - 20.0	740.19	738.0	5.77	734.42	7.52	732.67	7.22	732.97	6.47	733.72
UMW-114	20.0	10.0 - 20.0	740.31	738.2	5.91	734.40	7.57	732.74	7.48	732.83	6.46	733.85
UMW-115	20.0	10.0 - 20.0	740.20	738.1	5.47	734.73	6.94	733.26	7.38	732.82	5.74	734.46
UMW-116	20.0	10.0 - 20.0	736.77	737.2	5.12	731.65	5.47	731.30	5.62	731.15	5.21	731.56

-- Not measured

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-101							
	12/13/90	16.3 - 26.5	26.5	736.00	736.3	**16.55**	**719.45**
	12/20/90	16.3 - 26.5	26.5	736.00	736.3	**25.12**	**710.88**
	11/24/92	16.3 - 26.5	26.5	736.00	736.3	**17.92**	**718.08**
	01/04/93	16.3 - 26.5	26.5	736.00	736.3	**17.95**	**718.05**
UMW-102							
	12/13/90	6.7 - 22.0	22	737.44	737.8	**5.2**	**732.24**
	12/20/90	6.7 - 22.0	22	737.44	737.8	**4.65**	**732.79**
	11/24/92	6.7 - 22.0	22	737.44	737.8	**2.94**	**734.5**
	01/04/93	6.7 - 22.0	22	737.44	737.8	**1.90**	**735.54**
	02/09/96	6.7 - 22.0	22	737.44	737.8	**5.58**	**731.86**
	05/07/96	6.7 - 22.0	22	737.44	737.8	**4.18**	**733.26**
	08/06/96	6.7 - 22.0	22	737.44	737.8	**5.91**	**731.53**
	11/05/96	6.7 - 22.0	22	737.44	737.8	**6.73**	**730.71**
	11/10/98	6.7 - 22.0	22	737.44	737.8	**4.26**	**733.18**
	03/25/99	6.7 - 22.0	22	737.44	737.8	**6.20**	**731.24**
	06/16/99	6.7 - 22.0	22	737.44	737.8	**4.85**	**732.59**
	09/14/99	6.7 - 22.0	22	737.44	737.8	**6.68**	**730.76**
	12/08/99	6.7 - 22.0	22	737.44	737.8	**6.71**	**730.73**
	03/02/00	6.7 - 22.0	22	737.44	737.8	**5.28**	**732.16**
	06/15/00	6.7 - 22.0	22	737.44	737.8	**5.67**	**731.77**
	09/26/00	6.7 - 22.0	22	737.44	737.8	**5.57**	**731.87**
	12/27/00	6.7 - 22.0	22	737.44	737.8	**5.76**	**731.68**
	03/08/01	6.7 - 22.0	22	737.44	737.8	**4.81**	**732.63**
	06/25/01	6.7 - 22.0	22	737.44	737.8	**6.15**	**731.29**
	09/06/01	6.7 - 22.0	22	737.44	737.8	**5.96**	**731.48**
	12/27/01	6.7 - 22.0	22	737.44	737.8	**5.49**	**731.95**
	03/06/02	6.7 - 22.0	22	737.44	737.8	**4.62**	**732.82**
	06/04/02	6.7 - 22.0	22	737.44	737.8	**5.69**	**731.75**
	09/04/02	6.7 - 22.0	22	737.44	737.8	**5.77**	**731.67**
	12/05/02	6.7 - 22.0	22	737.44	737.8	**6.24**	**731.2**
	3/12/03	6.7 - 22.0	22	737.44	737.8	**5.43**	**732.01**
	6/12/03	6.7 - 22.0	22	737.44	737.8	**3.17**	**734.27**
	9/23/03	6.7 - 22.0	22	737.44	737.8	**5.99**	**731.45**
	12/2/03	6.7 - 22.0	22	737.44	737.8	**5.43**	**732.01**
	3/2/04	6.7 - 22.0	22	737.44	737.8	**5.79**	**731.65**
	5/25/04	6.7 - 22.0	22	737.44	737.8	**5.80**	**731.64**
	7/26/04	6.7 - 22.0	22	737.44	737.8	**6.02**	**731.42**
	12/6/04	6.7 - 22.0	22	737.44	737.8	**4.62**	**732.82**
	3/15/05	6.7 - 22.0	22	737.44	737.8	**5.95**	**731.49**
	6/9/05	6.7 - 22.0	22	737.44	737.8	**6.34**	**731.1**
	9/27/05	6.7 - 22.0	22	737.44	737.8	**5.14**	**732.3**
	12/27/05	6.7 - 22.0	22	737.44	737.8	**4.81**	**732.63**
	3/30/06	6.7 - 22.0	22	737.44	737.8	**5.46**	**731.98**
	6/22/06	6.7 - 22.0	22	737.44	737.8	**6.53**	**730.91**
	9/19/06	6.7 - 22.0	22	737.44	737.8	**6.33**	**731.11**
	12/13/06	6.7 - 22.0	22	737.44	737.8	**4.81**	**732.63**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-103							
	12/13/90	9.8 - 20.0	20	736.27	736.5	**3.34**	**732.93**
	12/20/90	9.8 - 20.0	20	736.27	736.5	**3.25**	**733.02**
	11/24/92	9.8 - 20.0	20	736.27	736.5	**2.77**	**733.5**
	01/04/93	9.8 - 20.0	20	736.27	736.5	**3.12**	**733.15**
	02/09/96	9.8 - 20.0	20	736.27	736.5	**3.43**	**732.84**
	05/07/96	9.8 - 20.0	20	736.27	736.5	**3.01**	**733.26**
	08/06/96	9.8 - 20.0	20	736.27	736.5	**3.47**	**732.8**
	11/05/96	9.8 - 20.0	20	736.27	736.5	**3.58**	**732.69**
	11/10/98	9.8 - 20.0	20	736.27	736.5	**0.26**	**736.01**
UMW-104							
	12/13/90	9.9 - 20.0	20	736.02	736.5	**3.35**	**732.67**
	12/20/90	9.9 - 20.0	20	736.02	736.5	**3.19**	**732.83**
	11/24/92	9.9 - 20.0	20	736.02	736.5	**3.15**	**732.87**
	01/04/93	9.9 - 20.0	20	736.02	736.5	**3.28**	**732.74**
	02/09/96	9.9 - 20.0	20	736.02	736.5	**3.36**	**732.66**
	11/10/98	9.9 - 20.0	20	736.02	736.5	**0.22**	**735.80**
	06/16/99	9.9 - 20.0	20	736.02	736.5	**1.92**	**734.10**
	12/08/99	9.9 - 20.0	20	736.02	736.5	**3.19**	**732.83**
	03/02/00	9.9 - 20.0	20	736.02	736.5	**2.35**	**733.67**
	06/15/00	9.9 - 20.0	20	736.02	736.5	**2.49**	**733.53**
	09/26/00	9.9 - 20.0	20	736.02	736.5	**2.57**	**733.45**
	03/08/01	9.9 - 20.0	20	736.02	736.5	**2.54**	**733.48**
	06/25/01	9.9 - 20.0	20	736.02	736.5	**3.17**	**732.85**
	09/06/01	9.9 - 20.0	20	736.02	736.5	**3.93**	**732.09**
	12/27/01	9.9 - 20.0	20	736.02	736.5	**2.72**	**733.30**
	03/06/02	9.9 - 20.0	20	736.02	736.5	**2.04**	**733.98**
	06/04/02	9.9 - 20.0	20	736.02	736.5	**2.83**	**733.19**
	09/04/02	9.9 - 20.0	20	736.02	736.5	**2.74**	**733.28**
	12/05/02	9.9 - 20.0	20	736.02	736.5	**3.27**	**732.75**
	03/12/03	9.9 - 20.0	20	736.02	736.5	**2.69**	**733.33**
	06/12/03	9.9 - 20.0	20	736.02	736.5	**0.79**	**735.23**
	09/23/03	9.9 - 20.0	20	736.02	736.5	**2.98**	**733.04**
	12/02/03	9.9 - 20.0	20	736.02	736.5	**2.66**	**733.36**
	03/02/04	9.9 - 20.0	20	736.02	736.5	**3.04**	**732.98**
	05/25/04	9.9 - 20.0	20	736.02	736.5	**2.79**	**733.23**
	07/26/04	9.9 - 20.0	20	736.02	736.5	**5.09**	**730.93**
	12/06/04	9.9 - 20.0	20	736.02	736.5	**1.63**	**734.39**
	03/15/05	9.9 - 20.0	20	736.02	736.5	**3.17**	**732.85**
	06/09/05	9.9 - 20.0	20	736.02	736.5	**3.42**	**732.60**
	09/27/05	9.9 - 20.0	20	736.02	736.5	**2.02**	**734.00**
	12/27/05	9.9 - 20.0	20	736.02	736.5	**2.84**	**733.18**
	03/30/06	9.9 - 20.0	20	736.02	736.5	**2.97**	**733.05**
	06/22/06	9.9 - 20.0	20	736.02	736.5	**3.56**	**732.46**
	09/19/06	9.9 - 20.0	20	736.02	736.5	**3.09**	**732.93**
	12/13/06	9.9 - 20.0	20	736.02	736.5	**2.40**	**733.62**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-105							
	02/09/96	9.5 - 19.7	19.7	737.45	737.8	**6.02**	**731.43**
	11/10/98	9.5 - 19.7	19.7	737.45	737.8	**4.64**	**732.81**
	09/14/99	9.5 - 19.7	19.7	737.45	737.8	**7.22**	**730.23**
	12/08/99	9.5 - 19.7	19.7	737.45	737.8	**6.50**	**730.95**
	03/02/00	9.5 - 19.7	19.7	737.45	737.8	**5.24**	**732.21**
	06/15/00	9.5 - 19.7	19.7	737.45	737.8	**5.75**	**731.70**
	09/26/00	9.5 - 19.7	19.7	737.45	737.8	**6.70**	**730.75**
	03/08/01	9.5 - 19.7	19.7	737.45	737.8	**5.79**	**731.66**
	06/25/01	9.5 - 19.7	19.7	737.45	737.8	**6.76**	**730.69**
	09/06/01	9.5 - 19.7	19.7	737.45	737.8	**7.34**	**730.11**
	12/27/01	9.5 - 19.7	19.7	737.45	737.8	**5.82**	**731.63**
	03/06/02	9.5 - 19.7	19.7	737.45	737.8	**5.51**	**731.94**
	06/04/02	9.5 - 19.7	19.7	737.45	737.8	**6.14**	**731.31**
	09/04/02	9.5 - 19.7	19.7	737.45	737.8	**6.32**	**731.13**
	12/05/02	9.5 - 19.7	19.7	737.45	737.8	**6.78**	**730.67**
	3/12/03	9.5 - 19.7	19.7	737.45	737.8	**5.73**	**731.72**
	6/12/03	9.5 - 19.7	19.7	737.45	737.8	**5.50**	**731.95**
	9/23/03	9.5 - 19.7	19.7	737.45	737.8	**6.69**	**730.76**
	12/2/03	9.5 - 19.7	19.7	737.45	737.8	**5.76**	**731.69**
	3/2/04	9.5 - 19.7	19.7	737.45	737.8	**6.01**	**731.44**
	5/25/04	9.5 - 19.7	19.7	737.45	737.8	**6.12**	**731.33**
	7/26/04	9.5 - 19.7	19.7	737.45	737.8	**6.55**	**730.90**
	12/6/04	9.5 - 19.7	19.7	737.45	737.8	**5.75**	**731.70**
	3/15/05	9.5 - 19.7	19.7	737.45	737.8	**7.55**	**729.90**
	6/9/05	9.5 - 19.7	19.7	737.45	737.8	**8.00**	**729.45**
	9/27/05	9.5 - 19.7	19.7	737.45	737.8	**6.66**	**730.79**
	12/27/05	9.5 - 19.7	19.7	737.45	737.8	**7.00**	**730.45**
	3/30/06	9.5 - 19.7	19.7	737.45	737.8	**7.27**	**730.18**
	6/22/06	9.5 - 19.7	19.7	737.45	737.8	**7.89**	**729.56**
	9/19/06	9.5 - 19.7	19.7	737.45	737.8	**7.52**	**729.93**
	12/13/06	9.5 - 19.7	19.7	737.45	737.8	**6.49**	**730.96**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-106							
	02/09/96	9.8 - 20.0	20	737.12	737.7	**7.77**	**729.35**
	11/10/98	9.8 - 20.0	20	737.12	737.7	**9.4**	**727.72**
	09/14/99	9.8 - 20.0	20	737.12	737.7	**10.13**	**726.99**
	12/08/99	9.8 - 20.0	20	737.12	737.7	**9.5**	**727.62**
	03/02/00	9.8 - 20.0	20	737.12	737.7	**8.45**	**728.67**
	06/15/00	9.8 - 20.0	20	737.12	737.7	**8.63**	**728.49**
	09/26/00	9.8 - 20.0	20	737.12	737.7	**10.36**	**726.76**
	03/08/01	9.8 - 20.0	20	737.12	737.7	**6.64**	**730.48**
	06/25/01	9.8 - 20.0	20	737.12	737.7	**8.77**	**728.35**
	09/06/01	9.8 - 20.0	20	737.12	737.7	**10.67**	**726.45**
	12/27/01	9.8 - 20.0	20	737.12	737.7	**8.96**	**728.16**
	03/06/02	9.8 - 20.0	20	737.12	737.7	**7.15**	**729.97**
	06/04/02	9.8 - 20.0	20	737.12	737.7	**7.17**	**729.95**
	09/04/02	9.8 - 20.0	20	737.12	737.7	**9.82**	**727.30**
	12/05/02	9.8 - 20.0	20	737.12	737.7	**9.66**	**727.46**
	3/12/03	9.8 - 20.0	20	737.12	737.7	**8.78**	**728.34**
	6/12/03	9.8 - 20.0	20	737.12	737.7	**8.78**	**728.34**
	9/23/03	9.8 - 20.0	20	737.12	737.7	**9.77**	**727.35**
	12/2/03	9.8 - 20.0	20	737.12	737.7	**9.25**	**727.87**
	3/2/04	9.8 - 20.0	20	737.12	737.7	**8.36**	**728.76**
	5/25/04	9.8 - 20.0	20	737.12	737.7	**8.01**	**729.11**
	7/26/04	9.8 - 20.0	20	737.12	737.7	**9.39**	**727.73**
	12/6/04	9.8 - 20.0	20	737.12	737.7	**8.86**	**728.26**
	3/15/05	9.8 - 20.0	20	737.12	737.7	**7.22**	**729.90**
	6/9/05	9.8 - 20.0	20	737.12	737.7	**8.56**	**728.56**
	9/27/05	9.8 - 20.0	20	737.12	737.7	**11.14**	**725.98**
	12/27/05	9.8 - 20.0	20	737.12	737.7	**9.60**	**727.52**
	3/30/06	9.8 - 20.0	20	737.12	737.7	**8.74**	**728.38**
	6/22/06	9.8 - 20.0	20	737.12	737.7	**9.84**	**727.28**
	9/19/06	9.8 - 20.0	20	737.12	737.7	**11.63**	**725.49**
	12/13/06	9.8 - 20.0	20	737.12	737.7	**9.62**	**727.50**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-107							
	02/09/96	9.5 - 19.7	19.7	736.98	737.3	**5.49**	**731.49**
	05/07/96	9.5 - 19.7	19.7	736.98	737.3	**4.73**	**732.25**
	08/06/96	9.5 - 19.7	19.7	736.98	737.3	**6.37**	**730.61**
	11/05/96	9.5 - 19.7	19.7	736.98	737.3	**8.25**	**728.73**
	11/10/98	9.5 - 19.7	19.7	736.98	737.3	**5.08**	**731.90**
	03/25/99	9.5 - 19.7	19.7	736.98	737.3	**6.4**	**730.58**
	06/16/99	9.5 - 19.7	19.7	736.98	737.3	**4.88**	**732.10**
	09/14/99	9.5 - 19.7	19.7	736.98	737.3	**6.05**	**730.93**
	12/08/99	9.5 - 19.7	19.7	736.98	737.3	**7.5**	**729.48**
	03/02/00	9.5 - 19.7	19.7	736.98	737.3	**6.15**	**730.83**
	06/15/00	9.5 - 19.7	19.7	736.98	737.3	**5.37**	**731.61**
	09/26/00	9.5 - 19.7	19.7	736.98	737.3	**5.67**	**731.31**
	12/27/00	9.5 - 19.7	19.7	736.98	737.3	**5.26**	**731.72**
	03/08/01	9.5 - 19.7	19.7	736.98	737.3	**5.12**	**731.86**
	06/25/01	9.5 - 19.7	19.7	736.98	737.3	**5.72**	**731.26**
	09/06/01	9.5 - 19.7	19.7	736.98	737.3	**5.75**	**731.23**
	12/27/01	9.5 - 19.7	19.7	736.98	737.3	**5.12**	**731.86**
	03/06/02	9.5 - 19.7	19.7	736.98	737.3	**4.82**	**732.16**
	06/04/02	9.5 - 19.7	19.7	736.98	737.3	**5.28**	**731.70**
	09/04/02	9.5 - 19.7	19.7	736.98	737.3	**5.26**	**731.72**
	12/05/02	9.5 - 19.7	19.7	736.98	737.3	**5.75**	**731.23**
	3/12/03	9.5 - 19.7	19.7	736.98	737.3	**5.26**	**731.72**
	6/12/03	9.5 - 19.7	19.7	736.98	737.3	**4.77**	**732.21**
	9/23/03	9.5 - 19.7	19.7	736.98	737.3	**5.13**	**731.85**
	12/2/03	9.5 - 19.7	19.7	736.98	737.3	**5.19**	**731.79**
	3/2/04	9.5 - 19.7	19.7	736.98	737.3	**5.46**	**731.52**
	5/25/04	9.5 - 19.7	19.7	736.98	737.3	**5.28**	**731.70**
	7/26/04	9.5 - 19.7	19.7	736.98	737.3	**5.21**	**731.77**
	12/6/04	9.5 - 19.7	19.7	736.98	737.3	**4.89**	**732.09**
	3/15/05	9.5 - 19.7	19.7	736.98	737.3	**5.45**	**731.53**
	6/9/05	9.5 - 19.7	19.7	736.98	737.3	**5.61**	**731.37**
	9/27/05	9.5 - 19.7	19.7	736.98	737.3	**5.45**	**731.53**
	12/27/05	9.5 - 19.7	19.7	736.98	737.3	**5.68**	**731.30**
	3/30/06	9.5 - 19.7	19.7	736.98	737.3	**5.90**	**731.08**
	6/22/06	9.5 - 19.7	19.7	736.98	737.3	**6.32**	**730.66**
	9/19/06	9.5 - 19.7	19.7	736.98	737.3	**5.76**	**731.22**
	12/13/06	9.5 - 19.7	19.7	736.98	737.3	**5.01**	**731.97**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-108							
	02/09/96	4.8 - 15.0	15	736.95	737.2	**6.54**	**730.41**
	05/07/96	4.8 - 15.0	15	736.95	737.2	**5.04**	**731.91**
	08/06/96	4.8 - 15.0	15	736.95	737.2	**6.24**	**730.71**
	11/05/96	4.8 - 15.0	15	736.95	737.2	**8.11**	**728.84**
	11/10/98	4.8 - 15.0	15	736.95	737.2	**6.73**	**730.22**
	03/25/99	4.8 - 15.0	15	736.95	737.2	**5.83**	**731.12**
	06/16/99	4.8 - 15.0	15	736.95	737.2	**4.99**	**731.96**
	09/14/99	4.8 - 15.0	15	736.95	737.2	**7.25**	**729.70**
	12/08/99	4.8 - 15.0	15	736.95	737.2	**7.46**	**729.49**
	03/02/00	4.8 - 15.0	15	736.95	737.2	**5.50**	**731.45**
	06/15/00	4.8 - 15.0	15	736.95	737.2	**6.08**	**730.87**
	09/26/00	4.8 - 15.0	15	736.95	737.2	**6.61**	**730.34**
	12/27/00	4.8 - 15.0	15	736.95	737.2	**6.43**	**730.52**
	03/08/01	4.8 - 15.0	15	736.95	737.2	**5.48**	**731.47**
	06/25/01	4.8 - 15.0	15	736.95	737.2	**6.70**	**730.25**
	09/06/01	4.8 - 15.0	15	736.95	737.2	**6.96**	**729.99**
	12/27/01	4.8 - 15.0	15	736.95	737.2	**5.46**	**731.49**
	03/06/02	4.8 - 15.0	15	736.95	737.2	**4.97**	**731.98**
	06/04/02	4.8 - 15.0	15	736.95	737.2	**5.73**	**731.22**
	09/04/02	4.8 - 15.0	15	736.95	737.2	**5.71**	**731.24**
	12/05/02	4.8 - 15.0	15	736.95	737.2	**6.77**	**730.18**
	03/12/03	4.8 - 15.0	15	736.95	737.2	**6.18**	**730.77**
	06/12/03	4.8 - 15.0	15	736.95	737.2	**5.70**	**731.25**
	09/23/03	4.8 - 15.0	15	736.95	737.2	**6.18**	**730.77**
	12/02/03	4.8 - 15.0	15	736.95	737.2	**5.28**	**731.67**
	03/02/04	4.8 - 15.0	15	736.95	737.2	**5.89**	**731.06**
	05/25/04	4.8 - 15.0	15	736.95	737.2	**5.38**	**731.57**
	07/26/04	4.8 - 15.0	15	736.95	737.2	**5.40**	**731.55**
	12/06/04	4.8 - 15.0	15	736.95	737.2	**4.95**	**732.00**
	03/15/05	4.8 - 15.0	15	736.95	737.2	**6.28**	**730.67**
	06/09/05	4.8 - 15.0	15	736.95	737.2	**6.76**	**730.19**
	09/27/05	4.8 - 15.0	15	736.95	737.2	**4.69**	**732.26**
	12/27/05	4.8 - 15.0	15	736.95	737.2	**6.13**	**730.82**
	03/30/06	4.8 - 15.0	15	736.95	737.2	**5.94**	**731.01**
	06/22/06	4.8 - 15.0	15	736.95	737.2	**6.95**	**730.00**
	09/19/06	4.8 - 15.0	15	736.95	737.2	**6.78**	**730.17**
	12/13/06	4.8 - 15.0	15	736.95	737.2	**5.38**	**731.57**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-109							
	02/09/96	10.0 - 20.0	20	735.22	735.7	**7.01**	**728.21**
	11/10/98	10.0 - 20.0	20	735.22	735.7	**6.81**	**728.41**
	03/25/99	10.0 - 20.0	20	735.22	735.7	**8.75**	**726.47**
	06/16/99	10.0 - 20.0	20	735.22	735.7	**6.82**	**728.40**
	09/14/99	10.0 - 20.0	20	735.22	735.7	**7.28**	**727.94**
	12/08/99	10.0 - 20.0	20	735.22	735.7	**7.15**	**728.07**
	03/02/00	10.0 - 20.0	20	735.22	735.7	**7.93**	**727.29**
	06/15/00	10.0 - 20.0	20	735.22	735.7	**6.70**	**728.52**
	09/26/00	10.0 - 20.0	20	735.22	735.7	**6.95**	**728.27**
	12/27/00	10.0 - 20.0	20	735.22	735.7	**6.92**	**728.30**
	03/08/01	10.0 - 20.0	20	735.22	735.7	**6.76**	**728.46**
	06/25/01	10.0 - 20.0	20	735.22	735.7	**7.13**	**728.09**
	09/06/01	10.0 - 20.0	20	735.22	735.7	**7.11**	**728.11**
	12/27/01	10.0 - 20.0	20	735.22	735.7	**6.96**	**728.26**
	03/06/02	10.0 - 20.0	20	735.22	735.7	**6.75**	**728.47**
	06/04/02	10.0 - 20.0	20	735.22	735.7	**6.99**	**728.23**
	09/04/02	10.0 - 20.0	20	735.22	735.7	**7.01**	**728.21**
	12/05/02	10.0 - 20.0	20	735.22	735.7	**7.07**	**728.15**
	03/12/03	10.0 - 20.0	20	735.22	735.7	**6.63**	**728.59**
	06/12/03	10.0 - 20.0	20	735.22	735.7	**6.80**	**728.42**
	09/23/03	10.0 - 20.0	20	735.22	735.7	**7.04**	**728.18**
	12/02/03	10.0 - 20.0	20	735.22	735.7	**7.06**	**728.16**
	03/02/04	10.0 - 20.0	20	735.22	735.7	**7.29**	**727.93**
	05/25/04	10.0 - 20.0	20	735.22	735.7	**7.09**	**728.13**
	07/26/04	10.0 - 20.0	20	735.22	735.7	**8.06**	**727.16**
	12/06/04	10.0 - 20.0	20	735.22	735.7	**6.52**	**728.70**
	03/15/05	10.0 - 20.0	20	735.22	735.7	**7.22**	**728.00**
	06/09/05	10.0 - 20.0	20	735.22	735.7	**7.25**	**727.97**
	09/27/05	10.0 - 20.0	20	735.22	735.7	**6.97**	**728.25**
	12/27/05	10.0 - 20.0	20	735.22	735.7	**6.82**	**728.40**
	03/30/06	10.0 - 20.0	20	735.22	735.7	**4.79**	**730.43**
	06/22/06	10.0 - 20.0	20	735.22	735.7	**7.01**	**728.21**
	09/19/06	10.0 - 20.0	20	735.22	735.7	**5.28**	**729.94**
	12/13/06	10.0 - 20.0	20	735.22	735.7	**6.63**	**728.59**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-110							
	02/09/96	10.8 - 21.0	21	736.88	737.4	**3.52**	**733.36**
	11/10/98	10.8 - 21.0	21	736.88	737.4	**1.37**	**735.51**
	09/14/99	10.8 - 21.0	21	736.88	737.4	**3.89**	**732.99**
	12/08/99	10.8 - 21.0	21	736.88	737.4	**4.04**	**732.84**
	03/02/00	10.8 - 21.0	21	736.88	737.4	**3.24**	**733.64**
	03/08/01	10.8 - 21.0	21	736.88	737.4	**1.27**	**735.61**
	06/25/01	10.8 - 21.0	21	736.88	737.4	**3.46**	**733.42**
	09/06/01	10.8 - 21.0	21	736.88	737.4	**2.71**	**734.17**
	12/27/01	10.8 - 21.0	21	736.88	737.4	**2.35**	**734.53**
	03/06/02	10.8 - 21.0	21	736.88	737.4	**1.33**	**735.55**
	06/04/02	10.8 - 21.0	21	736.88	737.4	**2.07**	**734.81**
	09/04/02	10.8 - 21.0	21	736.88	737.4	**2.44**	**734.44**
	12/05/02	10.8 - 21.0	21	736.88	737.4	**3.43**	**733.45**
	03/12/03	10.8 - 21.0	21	736.88	737.4	**2.07**	**734.81**
	06/12/03	10.8 - 21.0	21	736.88	737.4	**0.99**	**735.89**
	09/23/03	10.8 - 21.0	21	736.88	737.4	**2.73**	**734.15**
	12/02/03	10.8 - 21.0	21	736.88	737.4	**2.04**	**734.84**
	03/02/04	10.8 - 21.0	21	736.88	737.4	**2.10**	**734.78**
	05/25/04	10.8 - 21.0	21	736.88	737.4	**2.69**	**734.19**
	07/26/04	10.8 - 21.0	21	736.88	737.4	**2.36**	**734.52**
	12/06/04	10.8 - 21.0	21	736.88	737.4	**0.86**	**736.02**
	03/15/05	10.8 - 21.0	21	736.88	737.4	**1.69**	**735.19**
	06/09/05	10.8 - 21.0	21	736.88	737.4	**3.86**	**733.02**
	09/27/05	10.8 - 21.0	21	736.88	737.4	**1.74**	**735.14**
	12/27/05	10.8 - 21.0	21	736.88	737.4	**2.29**	**734.59**
	03/30/06	10.8 - 21.0	21	736.88	737.4	**2.26**	**734.62**
	06/22/06	10.8 - 21.0	21	736.88	737.4	**3.98**	**732.90**
	09/19/06	10.8 - 21.0	21	736.88	737.4	**3.51**	**733.37**
	12/13/06	10.8 - 21.0	21	736.88	737.4	**1.13**	**735.75**
UMW-111							
	02/09/96	9.1 - 19.8	19.8	735.72	736.1	**4.73**	**730.99**
	11/10/98	9.1 - 19.8	19.8	735.72	736.1	**4.16**	**731.56**
	06/16/99	9.1 - 19.8	19.8	735.72	736.1	**4.32**	**731.40**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-111A							
	09/14/99	9.0 - 22.8	22.8	736.90	737.2	**17.52**	**719.38**
	12/08/99	9.0 - 22.8	22.8	736.90	737.2	**15.22**	**721.68**
	03/02/00	9.0 - 22.8	22.8	736.90	737.2	**16.26**	**720.64**
	06/15/00	9.0 - 22.8	22.8	736.90	737.2	**9.36**	**727.54**
	09/26/00	9.0 - 22.8	22.8	736.90	737.2	**10.72**	**726.18**
	12/27/00	9.0 - 22.8	22.8	736.90	737.2	**9.17**	**727.73**
	03/08/01	9.0 - 22.8	22.8	736.90	737.2	**9.03**	**727.87**
	06/25/01	9.0 - 22.8	22.8	736.90	737.2	**9.16**	**727.74**
	09/06/01	9.0 - 22.8	22.8	736.90	737.2	**9.56**	**727.34**
	12/27/01	9.0 - 22.8	22.8	736.90	737.2	**8.65**	**728.25**
	03/06/02	9.0 - 22.8	22.8	736.90	737.2	**9.35**	**727.55**
	06/04/02	9.0 - 22.8	22.8	736.90	737.2	**8.71**	**728.19**
	09/04/02	9.0 - 22.8	22.8	736.90	737.2	**8.85**	**728.05**
	12/05/02	9.0 - 22.8	22.8	736.90	737.2	**9.31**	**727.59**
	03/12/03	9.0 - 22.8	22.8	736.90	737.2	**9.15**	**727.75**
	06/12/03	9.0 - 22.8	22.8	736.90	737.2	**9.84**	**727.06**
	09/23/03	9.0 - 22.8	22.8	736.90	737.2	**8.31**	**728.59**
	12/02/03	9.0 - 22.8	22.8	736.90	737.2	**9.76**	**727.14**
	03/02/04	9.0 - 22.8	22.8	736.90	737.2	**9.55**	**727.35**
	05/25/04	9.0 - 22.8	22.8	736.90	737.2	**9.55**	**727.35**
	07/26/04	9.0 - 22.8	22.8	736.90	737.2	**10.26**	**726.64**
	12/06/04	9.0 - 22.8	22.8	736.90	737.2	**8.83**	**728.07**
	03/15/05	9.0 - 22.8	22.8	736.90	737.2	**9.73**	**727.17**
	06/09/05	9.0 - 22.8	22.8	736.90	737.2	**10.51**	**726.39**
	09/27/05	9.0 - 22.8	22.8	736.90	737.2	**9.26**	**727.64**
	12/27/05	9.0 - 22.8	22.8	736.90	737.2	**9.22**	**727.68**
	03/30/06	9.0 - 22.8	22.8	736.90	737.2	**9.15**	**727.75**
	06/22/06	9.0 - 22.8	22.8	736.90	737.2	**9.68**	**727.22**
	09/19/06	9.0 - 22.8	22.8	736.90	737.2	**9.18**	**727.72**
	12/13/06	9.0 - 22.8	22.8	736.90	737.2	**9.90**	**727.00**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-112							
	02/09/96	9.9 - 20.0	20	737.61	737.9	**4.59**	**733.02**
	11/05/96	9.9 - 20.0	20	737.61	737.9	**4.99**	**732.62**
	11/10/98	9.9 - 20.0	20	737.61	737.9	**2.77**	**734.84**
	03/25/99	9.9 - 20.0	20	737.61	737.9	**3.85**	**733.76**
	06/16/99	9.9 - 20.0	20	737.61	737.9	**2.50**	**735.11**
	09/14/99	9.9 - 20.0	20	737.61	737.9	**4.84**	**732.77**
	12/08/99	9.9 - 20.0	20	737.61	737.9	**4.71**	**732.90**
	03/02/00	9.9 - 20.0	20	737.61	737.9	**3.46**	**734.15**
	06/15/00	9.9 - 20.0	20	737.61	737.9	**3.65**	**733.96**
	09/26/00	9.9 - 20.0	20	737.61	737.9	**3.14**	**734.47**
	12/27/00	9.9 - 20.0	20	737.61	737.9	**4.54**	**733.07**
	03/08/01	9.9 - 20.0	20	737.61	737.9	**3.52**	**734.09**
	06/25/01	9.9 - 20.0	20	737.61	737.9	**4.42**	**733.19**
	09/06/01	9.9 - 20.0	20	737.61	737.9	**4.02**	**733.59**
	12/27/01	9.9 - 20.0	20	737.61	737.9	**3.88**	**733.73**
	03/06/02	9.9 - 20.0	20	737.61	737.9	**3.16**	**734.45**
	06/04/02	9.9 - 20.0	20	737.61	737.9	**3.98**	**733.63**
	09/04/02	9.9 - 20.0	20	737.61	737.9	**3.79**	**733.82**
	12/05/02	9.9 - 20.0	20	737.61	737.9	**4.72**	**732.89**
	03/12/03	9.9 - 20.0	20	737.61	737.9	**3.92**	**733.69**
	06/12/03	9.9 - 20.0	20	737.61	737.9	**2.22**	**735.39**
	09/23/03	9.9 - 20.0	20	737.61	737.9	**4.19**	**733.42**
	12/02/03	9.9 - 20.0	20	737.61	737.9	**3.83**	**733.78**
	03/02/04	9.9 - 20.0	20	737.61	737.9	**4.31**	**733.30**
	05/25/04	9.9 - 20.0	20	737.61	737.9	**3.99**	**733.62**
	07/26/04	9.9 - 20.0	20	737.61	737.9	**4.26**	**733.35**
	12/06/04	9.9 - 20.0	20	737.61	737.9	**2.78**	**734.83**
	03/15/05	9.9 - 20.0	20	737.61	737.9	**4.44**	**733.17**
	06/09/05	9.9 - 20.0	20	737.61	737.9	**4.83**	**732.78**
	09/27/05	9.9 - 20.0	20	737.61	737.9	**2.51**	**735.10**
	12/27/05	9.9 - 20.0	20	737.61	737.9	**4.14**	**733.47**
	03/30/06	9.9 - 20.0	20	737.61	737.9	**4.10**	**733.51**
	06/22/06	9.9 - 20.0	20	737.61	737.9	**4.79**	**732.82**
	09/19/06	9.9 - 20.0	20	737.61	737.9	**4.22**	**733.39**
	12/13/06	9.9 - 20.0	20	737.61	737.9	**2.90**	**734.71**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-113							
	02/09/96	10.0 - 20.0	20	740.19	738.0	**7.77**	**732.42**
	11/10/98	10.0 - 20.0	20	740.19	738.0	**5.12**	**735.07**
	09/14/99	10.0 - 20.0	20	740.19	738.0	**7.96**	**732.23**
	12/08/99	10.0 - 20.0	20	740.19	738.0	**7.27**	**732.92**
	06/15/00	10.0 - 20.0	20	740.19	738.0	**6.63**	**733.56**
	12/27/00	10.0 - 20.0	20	740.19	738.0	**7.15**	**733.04**
	03/08/01	10.0 - 20.0	20	740.19	738.0	**5.77**	**734.42**
	06/25/01	10.0 - 20.0	20	740.19	738.0	**7.52**	**732.67**
	09/06/01	10.0 - 20.0	20	740.19	738.0	**7.22**	**732.97**
	12/27/01	10.0 - 20.0	20	740.19	738.0	**6.47**	**733.72**
	03/06/02	10.0 - 20.0	20	740.19	738.0	**5.27**	**734.92**
	06/04/02	10.0 - 20.0	20	740.19	738.0	**6.60**	**733.59**
	09/04/02	10.0 - 20.0	20	740.19	738.0	**6.21**	**733.98**
	12/05/02	10.0 - 20.0	20	740.19	738.0	**7.81**	**732.38**
	03/12/03	10.0 - 20.0	20	740.19	738.0	**6.70**	**733.49**
	06/12/03	10.0 - 20.0	20	740.19	738.0	**6.27**	**733.92**
	09/23/03	10.0 - 20.0	20	740.19	738.0	**7.07**	**733.12**
	12/02/03	10.0 - 20.0	20	740.19	738.0	**6.22**	**733.97**
	03/02/04	10.0 - 20.0	20	740.19	738.0	**6.78**	**733.41**
	05/25/04	10.0 - 20.0	20	740.19	738.0	**6.94**	**733.25**
	07/26/04	10.0 - 20.0	20	740.19	738.0	**6.67**	**733.52**
	12/06/04	10.0 - 20.0	20	740.19	738.0	**4.83**	**735.36**
	03/15/05	10.0 - 20.0	20	740.19	738.0	**6.96**	**733.23**
	06/09/05	10.0 - 20.0	20	740.19	738.0	**7.70**	**732.49**
	09/27/05	10.0 - 20.0	20	740.19	738.0	**6.23**	**733.96**
	12/27/05	10.0 - 20.0	20	740.19	738.0	**6.32**	**733.87**
	03/30/06	10.0 - 20.0	20	740.19	738.0	**6.64**	**733.55**
	06/22/06	10.0 - 20.0	20	740.19	738.0	**7.84**	**732.35**
	09/19/06	10.0 - 20.0	20	740.19	738.0	**7.44**	**732.75**
	12/13/06	10.0 - 20.0	20	740.19	738.0	**5.20**	**734.99**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-114							
	02/09/96	10.0 - 20.0	20	740.31	738.2	**7.20**	**733.11**
	05/07/96	10.0 - 20.0	20	740.31	738.2	**5.96**	**734.35**
	08/06/96	10.0 - 20.0	20	740.31	738.2	**8.00**	**732.31**
	11/05/96	10.0 - 20.0	20	740.31	738.2	**9.04**	**731.27**
	11/10/98	10.0 - 20.0	20	740.31	738.2	**5.50**	**734.81**
	03/25/99	10.0 - 20.0	20	740.31	738.2	**6.20**	**734.11**
	06/16/99	10.0 - 20.0	20	740.31	738.2	**5.34**	**734.97**
	09/14/99	10.0 - 20.0	20	740.31	738.2	**7.81**	**732.50**
	12/08/99	10.0 - 20.0	20	740.31	738.2	**6.10**	**734.21**
	03/02/00	10.0 - 20.0	20	740.31	738.2	**5.85**	**734.46**
	06/15/00	10.0 - 20.0	20	740.31	738.2	**6.81**	**733.50**
	09/26/00	10.0 - 20.0	20	740.31	738.2	**7.43**	**732.88**
	12/27/00	10.0 - 20.0	20	740.31	738.2	**7.18**	**733.13**
	03/08/01	10.0 - 20.0	20	740.31	738.2	**5.91**	**734.40**
	06/25/01	10.0 - 20.0	20	740.31	738.2	**7.57**	**732.74**
	09/06/01	10.0 - 20.0	20	740.31	738.2	**7.48**	**732.83**
	12/27/01	10.0 - 20.0	20	740.31	738.2	**6.46**	**733.85**
	03/06/02	10.0 - 20.0	20	740.31	738.2	**5.34**	**734.97**
	06/04/02	10.0 - 20.0	20	740.31	738.2	**6.63**	**733.68**
	09/04/02	10.0 - 20.0	20	740.31	738.2	**6.34**	**733.97**
	12/05/02	10.0 - 20.0	20	740.31	738.2	**7.98**	**732.33**
	03/12/03	10.0 - 20.0	20	740.31	738.2	**6.91**	**733.40**
	06/12/03	10.0 - 20.0	20	740.31	738.2	**6.81**	**733.50**
	09/23/03	10.0 - 20.0	20	740.31	738.2	**7.13**	**733.18**
	12/02/03	10.0 - 20.0	20	740.31	738.2	**6.29**	**734.02**
	03/02/04	10.0 - 20.0	20	740.31	738.2	**6.79**	**733.52**
	05/25/04	10.0 - 20.0	20	740.31	738.2	**6.86**	**733.45**
	07/26/04	10.0 - 20.0	20	740.31	738.2	**6.54**	**733.77**
	12/06/04	10.0 - 20.0	20	740.31	738.2	**4.98**	**735.33**
	03/15/05	10.0 - 20.0	20	740.31	738.2	**6.92**	**733.39**
	06/09/05	10.0 - 20.0	20	740.31	738.2	**7.62**	**732.69**
	09/27/05	10.0 - 20.0	20	740.31	738.2	**6.87**	**733.44**
	12/27/05	10.0 - 20.0	20	740.31	738.2	**6.26**	**734.05**
	03/30/06	10.0 - 20.0	20	740.31	738.2	**6.81**	**733.50**
	06/22/06	10.0 - 20.0	20	740.31	738.2	**7.83**	**732.48**
	09/19/06	10.0 - 20.0	20	740.31	738.2	**7.39**	**732.92**
	12/13/06	10.0 - 20.0	20	740.31	738.2	**5.00**	**735.31**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-115							
	02/09/96	**10.0 - 20.0**	**20**	**740.20**	**738.1**	**6.53**	**733.67**
	05/07/96	**10.0 - 20.0**	**20**	**740.20**	**738.1**	**4.90**	**735.30**
	08/06/96	**10.0 - 20.0**	**20**	**740.20**	**738.1**	**7.01**	**733.19**
	11/05/96	**10.0 - 20.0**	**20**	**740.20**	**738.1**	**9.43**	**730.77**
	11/10/98	10.0 - 20.0	20	740.20	738.1	**5.43**	**734.77**
	03/25/99	10.0 - 20.0	20	740.20	738.1	**5.78**	**734.42**
	06/16/99	10.0 - 20.0	20	740.20	738.1	**5.12**	**735.08**
	09/14/99	10.0 - 20.0	20	740.20	738.1	**7.30**	**732.90**
	12/08/99	10.0 - 20.0	20	740.20	738.1	**7.99**	**732.21**
	03/02/00	10.0 - 20.0	20	740.20	738.1	**5.57**	**734.63**
	06/15/00	10.0 - 20.0	20	740.20	738.1	**6.15**	**734.05**
	09/26/00	10.0 - 20.0	20	740.20	738.1	**7.25**	**732.95**
	12/27/00	10.0 - 20.0	20	740.20	738.1	**6.38**	**733.82**
	03/08/01	10.0 - 20.0	20	740.20	738.1	**5.47**	**734.73**
	06/25/01	10.0 - 20.0	20	740.20	738.1	**6.94**	**733.26**
	09/06/01	10.0 - 20.0	20	740.20	738.1	**7.38**	**732.82**
	12/27/01	10.0 - 20.0	20	740.20	738.1	**5.74**	**734.46**
	03/06/02	10.0 - 20.0	20	740.20	738.1	**4.99**	**735.21**
	06/04/02	10.0 - 20.0	20	740.20	738.1	**5.81**	**734.39**
	09/04/02	10.0 - 20.0	20	740.20	738.1	**5.78**	**734.42**
	12/05/02	10.0 - 20.0	20	740.20	738.1	**7.41**	**732.79**
	03/12/03	10.0 - 20.0	20	740.20	738.1	**5.89**	**734.31**
	06/12/03	10.0 - 20.0	20	740.20	738.1	**5.97**	**734.23**
	09/23/03	10.0 - 20.0	20	740.20	738.1	**6.26**	**733.94**
	12/02/03	10.0 - 20.0	20	740.20	738.1	**5.59**	**734.61**
	03/02/04	10.0 - 20.0	20	740.20	738.1	**6.04**	**734.16**
	05/25/04	10.0 - 20.0	20	740.20	738.1	**5.99**	**734.21**
	07/26/04	10.0 - 20.0	20	740.20	738.1	**5.79**	**734.41**
	12/06/04	10.0 - 20.0	20	740.20	738.1	**4.78**	**735.42**
	03/15/05	10.0 - 20.0	20	740.20	738.1	**6.07**	**734.13**
	06/09/05	10.0 - 20.0	20	740.20	738.1	**6.70**	**733.50**
	09/27/05	10.0 - 20.0	20	740.20	738.1	**6.70**	**733.50**
	12/27/05	10.0 - 20.0	20	740.20	738.1	**5.47**	**734.73**
	03/30/06	10.0 - 20.0	20	740.20	738.1	**5.74**	**734.46**
	06/22/06	10.0 - 20.0	20	740.20	738.1	**7.16**	**733.04**
	09/19/06	10.0 - 20.0	20	740.20	738.1	**6.95**	**733.25**
	12/13/06	10.0 - 20.0	20	740.20	738.1	**4.73**	**735.47**

WELL I.D.	DATE	SCREENED INTERVAL	TOTAL DEPTH	MEASURING POINT	GROUND SURFACE	DEPTH TO WATER	GW ELEVATION
UMW-116							
	02/09/96	10.0 - 20.0	20	736.77	737.2	**5.52**	**731.25**
	05/07/96	10.0 - 20.0	20	736.77	737.2	**4.35**	**732.42**
	08/06/96	10.0 - 20.0	20	736.77	737.2	**6.21**	**730.56**
	11/10/98	10.0 - 20.0	20	736.77	737.2	**4.48**	**732.29**
	03/25/99	10.0 - 20.0	20	736.77	737.2	**5.15**	**731.62**
	06/16/99	10.0 - 20.0	20	736.77	737.2	**4.67**	**732.10**
	09/14/99	10.0 - 20.0	20	736.77	737.2	**7.25**	**729.52**
	12/08/99	10.0 - 20.0	20	736.77	737.2	**7.69**	**729.08**
	03/02/00	10.0 - 20.0	20	736.77	737.2	**6.46**	**730.31**
	06/15/00	10.0 - 20.0	20	736.77	737.2	**4.95**	**731.82**
	09/26/00	10.0 - 20.0	20	736.77	737.2	**5.41**	**731.36**
	12/27/00	10.0 - 20.0	20	736.77	737.2	**5.42**	**731.35**
	03/08/01	10.0 - 20.0	20	736.77	737.2	**5.12**	**731.65**
	06/25/01	10.0 - 20.0	20	736.77	737.2	**5.47**	**731.30**
	09/06/01	10.0 - 20.0	20	736.77	737.2	**5.62**	**731.15**
	12/27/01	10.0 - 20.0	20	736.77	737.2	**5.21**	**731.56**
	03/06/02	10.0 - 20.0	20	736.77	737.2	**4.60**	**732.17**
	06/04/02	10.0 - 20.0	20	736.77	737.2	**5.62**	**731.15**
	09/04/02	10.0 - 20.0	20	736.77	737.2	**5.49**	**731.28**
	12/05/02	10.0 - 20.0	20	736.77	737.2	**5.60**	**731.17**
	03/12/03	10.0 - 20.0	20	736.77	737.2	**5.09**	**731.68**
	06/12/03	10.0 - 20.0	20	736.77	737.2	**3.42**	**733.35**
	09/23/03	10.0 - 20.0	20	736.77	737.2	**5.48**	**731.29**
	12/02/03	10.0 - 20.0	20	736.77	737.2	**5.17**	**731.60**
	03/02/04	10.0 - 20.0	20	736.77	737.2	**5.86**	**730.91**
	05/25/04	10.0 - 20.0	20	736.77	737.2	**5.43**	**731.34**
	07/26/04	10.0 - 20.0	20	736.77	737.2	**6.05**	**730.72**
	12/06/04	10.0 - 20.0	20	736.77	737.2	**5.00**	**731.77**
	03/15/05	10.0 - 20.0	20	736.77	737.2	**5.85**	**730.92**
	06/09/05	10.0 - 20.0	20	736.77	737.2	**6.39**	**730.38**
	09/27/05	10.0 - 20.0	20	736.77	737.2	**5.31**	**731.46**
	12/27/05	10.0 - 20.0	20	736.77	737.2	**5.69**	**731.08**
	03/30/06	10.0 - 20.0	20	736.77	737.2	**5.56**	**731.21**
	06/22/06	10.0 - 20.0	20	736.77	737.2	**6.53**	**730.24**
	09/19/06	10.0 - 20.0	20	736.77	737.2	**6.15**	**730.62**
	12/13/06	10.0 - 20.0	20	736.77	737.2	**5.58**	**731.19**
UMW-401							
	01/93	138.5 - 175.0	175	738.20	738.7	**121.12**	**617.08**
UMW-402							
	01/93	134.0 - 170.0	170	737.56	737.6	**120.78**	**616.78**
UMW-403							
	01/93	128.0 - 170.0	170	737.02	737.5	**120.60**	**616.42**

Table 1
Groundwater Elevation Data
Annual Groundwater Monitoring Report: 2003

Illinois Power Company
Champaign Former MGP Site
Champaign, Illinois

Monitoring Well Number	Total Depth (feet)	Monitored Interval (feet BLS)	Old Illinois Power Survey Elevation (feet NGVD)	
			Measuring Point (MP)	Land Surface (LS)
UMW-102	**22.0**	**6.7 - 22.0**	737.44	737.8
UMW-104	20.0	9.9 - 20.0	736.02	736.5
UMW-105	19.7	9.5 - 19.7	737.45	737.8
UMW-106	20.0	9.8 - 20.0	737.12	737.7
UMW-107	**19.7**	**9.5 - 19.7**	736.98	737.3
UMW-108	**15.0**	**4.8 - 15.0**	736.95	737.2
UMW-109	20.0	10.0 - 20.0	735.22	735.7
UMW-110	21.0	10.8 - 21.0	736.88	737.4
UMW-111A	**22.8**	**9.0 - 22.8**	736.90	737.2
UMW-112	**20.0**	**10.0 - 20.0**	737.61	737.9
UMW-113	20.0	10.0 - 20.0	740.19	738.0
UMW-114	**20.0**	**10.0 - 20.0**	740.31	738.2
UMW-115	**20.0**	**10.0 - 20.0**	740.20	738.1
UMW-116	**20.0**	**10.0 - 20.0**	736.77	737.2

Highlighted are those wells sampled quarterly.

APPENDIX K

CSI Analytical Chain-of-Custody Records

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7538

Project Name	CH 2004 SI
Project Mgr.	Gould
Project Number	62402647
Phase • Task	
Sampler(s)	Crovens / Scholbe
Laboratory Name	Teklab
Laboratory Location	Collinsville IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	PAHs (8270)	TPH (8015)	BTEX (8260)	BTEX/naphthalene (8260)	Comments (Field PID)	Lab ID #'s
TP507 (3.5')	7-7-04	1615	X					5	✓	✓	✓	1	(66.4)	
TP504 (3')	7-8-04	0840	X					5	✓	✓	✓	1	(360)	
TP501 (7')		1053	X					5	✓	✓	✓	1	(289)	
TP508 (4')		1340	X					5	✓	✓	✓	1	(305)	
TP503 (3')		1550	X					5	✓	✓	✓	1	(45.3)	
TP503A (3.5')		1630	X					5	✓	✓	✓	1	(22)	
SW2	7-8-04													
*SUMP1	7-9-04	1105		X				3				✓		

Temperature upon Receipt:

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☒	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☐ Other Normal

Fax and/or Mail Results to: JIM GOULD

Send Invoice to: Chambla - I.P.

QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other

Special Guidelines:

Reporting Limits:

* Special: * on separate WO, per Jack EAW 7/9/04

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack R. Scholbe	7/9/04	1635

Received by:

Signature	Date	Time
Elizabeth A. Weber	7/9/04	1635

Shaded Areas to be Completed by Lab

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

PE-179 (3/96)

Chain of Custody Record

1064 70377

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7540

Project Name: CH 2004 SI | Project Mgr.: Gould
Project Number: 6240 2647 | Phase • Task:
Sampler(s): Gravens / Scholbe
Laboratory: Name: Teklab | Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270 Bims)	VOCs (Full Appx A)	SVOCs (Full Appx A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH	Comments (Field PID)	Lab ID #'s
B510-2 (1-2)	7-12-04	1055	X					6			X	X	X	X	X	X	(21)	0407037001
B510-5 (4-5)		1125	X					5	X	X							(5.9)	-002
B510-12 (11-12)		1225	X					5	X	X							(10.2)	-003
B510-28 (27-28)		1245	X					5	X	X							(5.5)	-004
B512-3 (2-3)		1405	X					6	X	X				X	X	X	(27)	-005
B512-8 (7-8)		1425	X					6			X	X	X	X		X	(494)	-006
B512-11 (10-11)		1510	X					5	X	X							(265)	-007
B512-24 (23-24)		1525	X					5	X	X							(6.2)	-008
B513-2 (1-2)		1555	X					6	X	X				X	X	X	(4.4)	-009
B513-2D (1-2)		1600	X					6	X	X	SJL	SJL		X	X	X	(4.4)	-010
B513-8 (7-8)		1625	X					6	X	X	~~X~~	~~X~~	X				(420)	-011
B513-12 (11-12)	7-12-04	1710	X					6			X	X		X		X	(31.5)	-012

Temperature upon Receipt: 2.4°C

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

- ☐ Volatile Organics ..... Hydrochloric acid (HCl)
- ☐ TPH (8015) ..... Hydrochloric acid (HCl)
- ☐ TPH (418.1) ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ Cyanide ..... Sodium hydroxide (NaOH)
- ☐ Other (Specify) .....

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other Normal
Fax and/or Mail Results to: Jim Gould
Send Invoice to: Chamblin - I.P.
QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other
Special Guidelines: VOCs and SVOCs are full Part 740 - Apx. A
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Gregory K Dicks	7/15/04	9:46AM

Received by:

Signature	Date	Time
Heather Barnes	7/15/04	0946

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

PE-179 (3/96)

Shaded Areas to be Completed by Lab

** one NaHSO4 vial for B553-32D broken in lab. 7/15/04 HAB

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7541

Project Name CH 2004 SI Project Mgr. Gould
Project Number 62402647 Phase • Task
Sampler(s) Cravens / Schalbe
Laboratory Name Teklab
Location Collinsville, IL

	Sample Number and (depth)		Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270) sim	VOCs (App A)	SVOCs (App A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH				Comments (Field PID)	Lab ID #'s
2	B513-24	(23-24)	7/12/04	1720	✓					5	X	X										(5.0)	-013
	B501-2	(1-2)	7/13/04	0840	✓						X	X				X	X	X				(30.6)	-014
	B501-8	(7-8)		0910	✓						X	X										(29.6)	-015
	B501-15	(14-15)		0930	✓						X	X			X							(238)	-016
	B501-24	(23-24)		0945	✓								X	X		X		X				(1.4)	-017
	B502-3	(2-3)		1025	✓						X	X				X	X	X				(10.6)	-018
	B502-7	(6-7)		1105	✓						X	X										(217)	-019
	B502-12	(11-12)		1125	✓						X	X				X						(468)	-020
	~~B502-24~~	~~(23-24)~~		1143	✓						X	X			X							(10.2)	NAB
3	B503-3	(2-3)		1300	✓								X	X		X	X	X				(100)	-021
	B503-3D	(2-3)		1300	✓						JRS		X	X		X	X	X				(100)	-022
	B503-10	(9-10)	7/13/04	1330	✓						X	X										(143)	-023

Temperature upon Receipt

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

- ☐ Volatile Organics ..... Hydrochloric acid (HCl)
- ☐ TPH (8015) ..... Hydrochloric acid (HCl)
- ☐ TPH (418.1) ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ Cyanide ..... Sodium hydroxide (NaOH)
- ☐ Other (Specify) .....

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other Normal
Fax and/or Mail Results to: Jim Gould
Send Invoice to: Chamblin - IP
QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☒ Other Normal
Special Guidelines: VOCs + SVOCs are full Part 740 App. A
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Gregory K Schalbe	7/15/04	9:40AM

Received by:

Signature	Date	Time
Heather Barnes	7/15/04	0946

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler
PE-179 (3/96)

no sample received per Jack Schalbe. 7/15/04 HAB

Shaded Areas to be Completed by Lab

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7543

Project Name CH2001 SI **Project Mgr.** Gould
Project Number 62402647 **Phase • Task**
Sampler(s) CRAVENS/SCHOLBE
Laboratory Name TEKLAB
Location COLLINSVILLE, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAH's (8270) SIM	VOC's (Full Appx A)	SVOC's (Full Appx A)	TPH (8015)	Metals (6020A)	CYAN; DF	pH	Comments (Field PID)	Lab ID #'s
B503-11 (10-11)	7-13-04	1340	✓					5	X	X			X				(156)	-024
B503-19 (18-19)	"	1355	✓					6	X	X							(139)	-025
B504-3 (2-3)	7-13-04	1450	✓					5	X	X			X	X	X	X	(159)	-026
B504-7 (6-7)		1505	✓					5			X	X		X		X	(530)	-027
B504-7D (6-7)		1505	✓					5			X	X		X		X	(530)	-028
B504-14 (13-14)		1620	✓					5	X	X							(860)	-029
B504-21 (20-21)	7-14-04	0900	✓					6	X	X			X				(1101)	-030
B504-28 (27-28)		0930	✓					5	X	X			[illegible]				(82)	-031
B505-3 ### (2-3)		1000	✓					5	X	X				X	X	X	(462) (~~413~~)	-032
B505-6 ### (5-6)		1030	✓					5	X	X			X				(393)	-033
B505-11 ### (10-11)		1100	✓					5			X	X		X		X	(202)	-034
B505-22 ### (21-22)		1230	✓					5	X	X							(2.7)	-035

Analyses by Method Name and Number

Temperature upon Receipt

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other NORMAL
Fax and/or Mail Results to: Jim Gould
Send Invoice to: Chamblin - IP
QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☒ Other NORMAL
Special Guidelines: VOC's & SVOC's ARE FULL PART 740 - APX. A
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Gregory A Hibbs	7/15/04	9:46 AM

Received by:

Signature	Date	Time
Heather Barnes	7/15/04	0946

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

- each set is one sample; written in duplicate on COC, per Jack Scholbe. 7/15/04 HAB

4 of 4 70377

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7542

Project Name: CH 2004 SI | Project Mgr.: Gould
Project Number: 62402647 | Phase • Task:
Sampler(s): Cravens / Scholbe
Laboratory Name: Teklab
Laboratory Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270 SIMS)	VOCs (full Appx. A)	SVOCs (full Appx. A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH	Comments (Field PID)	Lab ID #'s
4 B505-3 *** (2-3)	7/14/04	1000	/					5	X	X				X	X	X	(4.2)	-034 HAB
B505-6 *** (5-6)		1030	/					5	X	X			X				(393)	
B505-11 *** (10-11)		1100	/					6			X	X		X		X	(202)	
B505-22 *** (21-22)		1230	/					5	X	X							(2.7)	
B505-28 (27-28)		1300	/					5	X	X							(5.8)	-036
B553-3 (2-3)		1400	/					5	X	X				X	X	X	(20.3)	-037
B553-6 (5-6)		1410	/					5	X	X							(3.4)	-038
B553-15 (14-15)		1445	/					4	X	X							(5.5)	-039
B553-24 (23-24)		1510	/					5	X	X			X				(22.1)	-040
B553-32 (31-32)		1530	/					5			X	X		X		X	(3.4)	-041
B553-32) *** (31-32)	V	1530	/					5			X	X		X		X	(3.4)	-042

Temperature upon Receipt:

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other normal
Fax and/or Mail Results to: Jim Gould
Send Invoice to: Champlin - IP
QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other
Special Guidelines: VOCs + SVOCs are full Part 740 - Apx. A
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Gregory K Hicks	7/15/04	9:46 AM

Received by:

Signature	Date	Time
Heather Barnes	7/15/04	0946

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

PE-179 (3/96)

Shaded Areas to be Completed by Lab

Chain of Custody Record

70448

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7544

Project Name: CH 2004 SI | Project Mgr.: Jim Gould
Project Number: 62402647 | Phase • Task:
Sampler(s): Cravens / Scholbe
Laboratory: Name: Jeklob | Location: Collinsville, IL

Temperature upon Receipt: 4.2°C read

E-MAILED 8/2/04

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270)	VOCs (Full Apx. A)	SVOCs (Full Apx. A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH	Comments (Field PID)	Lab ID #'s
B551-3 (2-3)	7-15-04	0840	X					5	X	X				X	X	X	(16.4)	0407044800l
-10 (9-10)		0900	✓					6	X	X			X				(146)	-002
-16 (15-16)		0940	✓					5	X	X							(11.8)	-003
-28 (27-28)		0940	✓					5	X	X							(3.9)	-004
B554-3 (2-3)		1025	✓					6			X	X		X	X	X	(13.2)	-005
-3D (2-3)		1025	✓					5	X	X							(13.2)	-006
-10 (9-10)		1050	✓					5	X	X							(156)	-007
-18 (17-18)		1135	✓					6	X	X			X				(892)	-008
-32 (31-32)		1150	✓					5	X	X							(1.2)	-009
B561-1 (0-1)		1340	✓					5	X	X				X	X	X	(3.0)	-010
-10 (9-10)		1410	✓					5			X	X		X	[redacted]	X	(214)	-011
-13 (12-13)		1510	✓					6	X	X			X		SIC		(356)	-012

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

- ☐ Volatile Organics ..... Hydrochloric acid (HCl)
- ☐ TPH (8015) ..... Hydrochloric acid (HCl)
- ☐ TPH (418.1) ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ Cyanide ..... Sodium hydroxide (NaOH)
- ☐ Other (Specify) .....

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other Normal
Fax and/or Mail Results to: Jim Gould
Send Invoice to: Chamblin - IP
QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other
Special Guidelines: VOCs + SVOCs are Full Part 740 - Apx A
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Scholbe	7/16/04	1600

Received by:

Signature	Date	Time
Heather Barnes	7/16/04	1600

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

70448

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7545

Project Name CH 2004 SI **Project Mgr.** Jim Gould
Project Number 62402647 **Phase • Task**
Sampler(s) Cravens / Scholbe
Laboratory Name Teklab
Location Collinsville, IL

Sample Number and (depth)		Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270)	VOCs (Apx A)	SVOCs (Apx A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH			Comments (Field PID)	Lab ID #'s
B561-19	(18-19)	7-15-04	1525	X					5	X	X				~~X~~ JRS	~~X~~ JRS				(6.2)	-013
-32	(31-32)		1535	✓					5	X	X				~~X~~ JRS	~~X~~ JRS				(0.3)	-014
-32D	(31-32)		1535	✓					5	X	X				~~X~~ JRS	~~X~~ JRS				(0.3)	-015
B562-1	(0-1)		1625	✓					5	X	X				X	X	X			(5.9)	-016
-10	(9-10)		1630	✓					5	X	X									(46.7)	-017
-14	(13-14)		1715	✓					6			X	X	X	X		X			(509)	-018
-28	(27-28)	7-15-04	1735	✓					5	X	X									(0.4)	-019
B515-2	(1-2)	7-16-04	0840	✓					5	X	X				X	X	X			(7.7)	-020
-7	(6-7)		0845	✓					5	X	X									(333)	-021
-19	(18-19)		0940	✓					6	X	X			X						(1404)	-022
-32	(31-32)		0950	✓					5			X	X		X		X			(0.8)	-023
B505-GRAB		7-16-04	0930	✓					1							X				—	-024

Analyses by Method Name and Number

Temperature upon Receipt

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other Normal
Fax and/or Mail Results to: Jim Gould
Send Invoice to: Chamblin-IP
QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other
Special Guidelines: VOCs + SVOCs - Full Port TAD - Apx A
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Scholbe	7/16/04	1600

Received by:

Signature	Date	Time
Heather Barnes	7/16/04	1600

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

70448

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7546

Project Name	CH 2004 SI
Project Mgr.	Jim Gould
Project Number	62402647
Phase • Task	
Sampler(s)	Cravens / Schulbe
Laboratory Name	Teklab
Laboratory Location	Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270)	VOCs (App A)	SVOCs (App A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH			Comments (Field PID)	Lab ID #'s
B560-3 (2-3)	7-16-04	1040	/					5	X	X				X	X	X			(9.0)	-025
-5 (4-5)		1100	/					5	X	X									(1.3)	-026
-13 (12-13)		1115	/					6	X	X			X						(333)	-027
-20 (19-20)		1135	/					5	X	X									(5.4)	-028
-20D (19-20)		1135	/					5	X	X									(5.4)	-029
-28 (27-28)	7-16-04	1200	/					5	X	X									(8.8)	-030

Temperature upon Receipt: _____

Samples Iced: X Yes ☐ No

Preservatives (ONLY for Water Samples)

- ☐ Volatile Organics ..... Hydrochloric acid (HCl)
- ☐ TPH (8015) ..... Hydrochloric acid (HCl)
- ☐ TPH (418.1) ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ Cyanide ..... Sodium hydroxide (NaOH)
- ☐ Other (Specify) ..... _____

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days X Other Normal
Fax and/or Mail Results to: Jim Gould
Send Invoice to: Chamblin - IP
QC Deliverable Requested: X Results + QC ☐ Level 3 ☐ Other _____
Special Guidelines: VOCs + SVOCs - Full Part 740 - App. A
Reporting Limits: N/A
* Special: _____

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Schulbe	7/16/04	1600

Received by:

Signature	Date	Time
Heather Barnes	7/16/04	1600

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

PE-179 (3/96)

Shaded Areas to be Completed by Lab

70635

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7547

Project Name	CH 2004 SI
Project Mgr.	JIM GOULD
Project Number	62402647
Phase • Task	
Sampler(s)	Cravens / Scholbe
Laboratory Name	Teklab
Laboratory Location	Collinsville, IL

Temperature upon Receipt 2.20°C

E-MAILED KK 8-5-04

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270)	VOCs (Apx A)	SVOCs (Apx A)	TPH (8015)	Metals (8 RCRA)	Cyanide	TH	PH	Comments (Field PID)	Lab ID #'s
B558-2 (1-2')	7-19-04	1040	X					5			X	X	1100 SOIL	X	X	X		(4.2)	04070635-001
B558-7 (6-7')		1120	X					5	X	X			X					(31.6)	-002
B558-12 (11-12')		1254	X					5	X	X								(23.2)	-003
B558-18 (17-18')		1310	X					5	X	X								(7.0)	-004
B558-28 (27-28')		1315	X					5	X	X								(0.8)	-005
B559-3 (2-3')		1445	X					5	X	X				X	X	X		(1.7)	-006
B559-8 (7-8')		1512	X					5			X	X		X		X		(3.7)	-007
B559-8D (7-8')		1524	X					5			X	X		X		X		(3.7)	-008
B559-19 (18-19')		1628	X					5	X	X			X					(4.4)	-009
B559-28 (27-28')		1640	X					5	X	X								(3.7)	-010
B508-3 (2-3')		1715	X					5	X	X				X	X	X		(6.3)	-011
B508-9 (8-9')	7-19-04	1755	X					5			X	X		X		X		(294)	-012

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other Normal

Fax and/or Mail Results to: JIM GOULD

Send Invoice to: Chamblin - IP

QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other

Special Guidelines: VOCs, SVOCs - All 740 Apx A

Reporting Limits:

* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Scholbe	7/23/04	1220

Received by:

Signature	Date	Time
Deadrun Barnes	7/23/04	1220

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

Chain of Custody Record

70635

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7548

Project Name	CH 2004 SI
Project Mgr.	Jim Gould
Project Number	62402647
Phase • Task	
Sampler(s)	Craveas / Schalbe
Laboratory Name	Teklab
Laboratory Location	Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270)	VOCs (Apx. A)	SVOCs (Apx. A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH	Comments (Field PID)	Lab ID #'s
BS08-11 (10-11')	7-19-04	1807	X					5	X	X			X				(36.1)	-013
BS08-28 (27-28')	7-19-04	1845	X					5	X	X							(2.5)	-014
BS57-1 (0-1')	7-20-04	0845	X					5	X	X				X	X	X	(3.4)	-015
BS57-10 (9-10')		0915	X					5	X	X							(12.3)	-016
BS57-12 (11-12')		1040	X					5			X	X	X	X		X	(55.1)	-017
BS57-24 (23-24')		1055	X					5	X	X							(3.0)	-018
BS56-3 (2-3')		1255	X					5	X	X				X	X	X	(6.4)	-019
BS56-6 (5-6')		1315	X					5	X	X							(295)	-020
BS56-20 (19-20')		1415	X					5	X	X			X				(518)	-021
BS56-28 (27-28')		1442	X					5			X	X		X		X	(2.3)	-022
BS56-28D (27-28')		1447	X					5			X	X		X		X	(2.3)	-023
BS50-3 (2-3')	7-20-04	1605	X					5			X	X		X	X	X	(53.8)	-024

Temperature upon Receipt: _____

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other Normal

Fax and/or Mail Results to: Jim Gould

Send Invoice to: Chamblin-IP

QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other _____

Special Guidelines: VOCs + SVOCs - Full 740, Apx. A

Reporting Limits: _____

* Special: _____

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Schalbe	7/23/04	1220

Received by:

Signature	Date	Time
Brad Barnes	7/23/04	1220

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

706035

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7549

Project Name: CH 2004 SI | Project Mgr.: Jim Gould
Project Number: 62402647 | Phase • Task:
Sampler(s): Cravens / Scholbe
Laboratory Name: Teklab
Laboratory Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270)	VOCs (Apx. A)	SVOCs (Apx. A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH			Comments (Field PID)	Lab ID #'s
B550-9 (8-9')	7-20-04	1700	X					5	X	X									(105)	-025
B550-11 (10-11')		1735	X					5	X	X			X						(164)	-026
B550-16 (15-16')		1750	X					5	X	X									(2.4)	-027
B550-28 (27-28')		1820	X					5	X	X									(0.4)	-028
B509-3 (2-3')	7-21-04	0920	X					5	X	X				X	X	X			(0.9)	-029
B509-8 (7-8')		0950	X								X	X		X		X			(13.1)	-030
B509-8D (7-8')		1000	X								X	X		X		X			(13.1)	-031
B509-18 (17-18')		1110	X						X	X			X						(42.6)	-032
B509-28 (27-28')		1135	X						X	X									(0.5)	-033
B507-1 (0-1')		1345	X						X	X				X	X	X			(1.8)	-034
B507-8 (7-8')		1415	X						X	X									(243)	-035
B507-19 (18-19')		1515	X								X	X	X	X		X			(2,163)	-036

Temperature upon Receipt:

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other Normal
Fax and/or Mail Results to: JIM Gould
Send Invoice to: Chamblin - IP
QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other
Special Guidelines: VOC + SVOC - Full 740, Apx. A
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Scholbe	7/23/04	1220

Received by:

Signature	Date	Time
Heather Barnes	7/23/04	1220

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

70635

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7550

Project Name: CH 2004 SI | Project Mgr.: JIM Gould
Project Number: 62402647 | Phase • Task:
Sampler(s): Cravens / Scholbe
Laboratory Name: Teklab
Laboratory Location: Collinsville IL

Temperature upon Receipt: _____

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270)	VOCs (Apx. A)	SVOCs (Apx. A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH	Comments (Field PID)	Lab ID #'s
BS07-28 (27-28)	7-21-04	1715	X			SJC		4	X	X SJC							(0.5) SJC	-037
BS02-24 (23-24')	7-21-04	1900	X					5	X	X							(10.2)	-038
BS06-3 (2-3')	7-22-04	0833	X					5	X	X				X	X	X	(3.6)	-039
BS06-7 (6-7')	7-22-04	0910	X					5	X	X							(431)	-040
BS06-17 (16-17')		1000	X					5	X	X			X				(1,865)	-041
BS06-28 (27-28')		1030	X					5			X	X		X		X	(2.0)	-042
BS16-3 (2-3')		1140	X					5	X	X				X	X	X	(3.6)	-043
BS16-5 (4-5')		1202	X					5	X	X			X				(200)	-044
BS16-5D (4-5')		1205	X					5	X	X			X				(200)	-045
BS16-14 (13-14')		1335	X					5	X	X							(168)	-046
BS16-24 (23-24')		1350	X					5	X	X							(2.8)	-047
BS14-3 (2-3')		1420	X					5			X	X		X	X	X	(14.7)	-048

Analyses by Method Name and Number

Samples Iced: X Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days X Other Normal
Fax and/or Mail Results to: Jim Gould
Send Invoice to: Chamblin - IP
QC Deliverable Requested: X Results + QC ☐ Level 3 ☐ Other
Special Guidelines: WC + SWC - full TAL, Apx. A
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Scholbe	7/23/04	1220

Received by:

Signature	Date	Time
Heather Barnes	7/23/04	1220

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

70635

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7551

Project Name	CH 2004 SI
Project Mgr.	Jim Gould
Project Number	62402647
Phase • Task	
Sampler(s)	Crovens / Scholbe
Laboratory Name	Teklab
Laboratory Location	Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX (8260)	PAHs (8270)	VOCs (App. A)	SVOC (App. A)	TPH (8015)	Metals (8 RCRA)	Cyanide	pH			Comments (Field PID)	Lab ID #'s
BS14-3D (2-3')	7-22-04	1422	X					5			X	X		X	X	X			(19.7)	-049
BS14-8 (7-8')		1530	X					5	X	X									(251)	-050
BS14-17 (16-17')		1610	X					5	X	X			X						(1,021)	-051
BS14-28 (27-28')	↓	1645	X					5	X	X										-052

Temperature upon Receipt: _____

Samples Iced: X Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days X Other Normal

Fax and/or Mail Results to: Jim Gould

Send Invoice to: Chamblin - IP

QC Deliverable Requested: X Results + QC ☐ Level 3 ☐ Other _____

Special Guidelines: VOC + SVOC - All TICs, App. A

Reporting Limits: _____

* Special: _____

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Scholbe	7/23/04	1220

Received by:

Signature	Date	Time
Heather Barnes	7/23/04	1220

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

PE-179 (3/96)

Shaded Areas to be Completed by Lab

Chain of Custody Record

70740

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7552 1 of 2

Project Name CH 2004 SI **Project Mgr.** Gould

Project Number 62402647 **Phase • Task**

Sampler(s) Cravens / Scholbe

Laboratory Name Teklab

Location Collinsville IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	Analyses by Method Name and Number: BTEX	PAHs	Comments (Field PID)	Lab ID #'s
112043	7/26/04	0840		X				3	2	1		4070740-001
102043		0943		X				3	2	1		002
110043		1013		X				3	2	1		003
111043		1045		X				3	2	1		004
109043		1125		X				3	2	1		005
104043		1127		X				3	2	1		006
108043		1403		X				3	2	1		007
108943		1407		X				3	2	1		008
105043		1435		X				3	2	1		009
TB1	7-19-04	1430		X				2	2	—		010

Temperature upon Receipt 1.2°C

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☒	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other normal

Fax and/or Mail Results to: Jim Gould

Send Invoice to: Chamblin - IP

QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other

Special Guidelines:

Reporting Limits:

* Special: Ø headspace

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Scholbe	7/28/04	1400

Received by:

Signature	Date	Time
Elizabeth A. Weber	7/28/04	1400
E-MAILED KK 8-4-04		

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

Chain of Custody Record

70740

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7600 2 of 2

Project Name	CH 2004 SI
Project Mgr.	Gould
Project Number	62402647
Phase • Task	
Sampler(s)	Cravens / Schulze
Laboratory Name	Teklab
Laboratory Location	Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	Analyses by Method Name and Number: BTEX	PAHs										Comments (Field PID)	Lab ID #'s
106043	7-26-04	1446		X				3	2	1											04070740-011
107043		1520		X				3	2	1											012
107943		1523		X				3	2	1											013
116043		1550		X				3	2	1											014
113043		1608		X				3	2	1											015
114043		1640		X				3	2	1											016
114543		1705		X				3	2	1											017
115043		1710		X				3	2	1											018
TB2	7-19-04	1430		X				2	2	—											019

Temperature upon Receipt: 1.2°C

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☒	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days ☒ Other Normal

Fax and/or Mail Results to: Jim Gould

Send Invoice to: Chamblin IP

QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other

Special Guidelines:

Reporting Limits:

* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack Scholle	7/29/04	1400

Received by:

Signature	Date	Time
Elizabeth A. Weber	7/28/04	1400

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

PE-179 (3/96)

Shaded Areas to be Completed by Lab

040801146

PHILIP ENVIRONMENTAL

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B5109

Project Name	IP 200H SI
Project Mgr.	Gould
Project Number	62402647
Phase • Task	
Sampler(s)	Stuart Cravens (Kelron)
Laboratory Name	Teklab, Inc.
Laboratory Location	Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	TCLP VOC	TCLP BNA	EDX	Phenols	Comments (Field PID)	Lab ID #'s
COMP3	8/4/04	1515	X					2	X	X	X	X		040801460d

Temperature upon Receipt 2.8°C iced

E-MAILED 8-12-04

Samples Iced: X Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☐ 1-3 Days ☐ 5 Days ☐ 10 Days X Other Standard

Fax and/or Mail Results to: Chamblin (IP) / Gould / Cravens

Send Invoice to: Chamblin / IP

QC Deliverable Requested: X Results + QC ☐ Level 3 ☐ Other

Special Guidelines: send results to Chamblin ASAP

Reporting Limits:

* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
	8/5/04	1603

Received by:

Signature	Date	Time
Elizabeth A Weber	8/5/04	1603

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

Shaded Areas to be Completed by Lab

PE-179 (3/96)

Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(618) 281-5120 Fax
(618) 281-8933 Bulletin Board

COC Serial No. B 7539

Project Name: CH 2004 SI | Project Mgr.: Gould
Project Number: 62402647 | Phase • Task:
Sampler(s): Cravens / Schulbe
Laboratory Name: Teklab
Laboratory Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix: Soil	Water	Air	Wipes	Other *	Total Number of Containers	BTEX	PAHs	RCRA Metals(8)	TPH	TCLP Benzene	Paint Filter	Flash Pt.	Comments (Field PID)	Lab ID #'s
COMP1 (Rolloff 1)	7-9-04	1120	X					4	✓	✓	✓	✓	✓	✓	✓		04C12359-001
COMP2 (Rolloff 2+3)	7-9-04	1175	X					4	✓	✓	✓	✓	✓	✓	✓		002

Temperature upon Receipt: 10.0°C

Per Bud Chamblin
Please run TCLP Pb + Hg and Reactive CN + S⁻
on both samples.
John Rley 7/19/04

E-MAILED
7/16/04

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

☐	Volatile Organics	Hydrochloric acid	(HCl)
☐	TPH (8015)	Hydrochloric acid	(HCl)
☐	TPH (418.1)	Hydrochloric acid	(HCl)
☐	Metals	Nitric acid	(HNO_3)
☐	Cyanide	Sodium hydroxide	(NaOH)
☐	Other (Specify)		

Lab Directives:

Requested TAT: ☒ 1-3 Days SDC ☐ 5 Days ☐ 10 Days ☒ Other Normal
Fax and/or Mail Results to: JIM GOULD
Send Invoice to: Chamblin - IP
QC Deliverable Requested: ☒ Results + QC ☐ Level 3 ☐ Other
Special Guidelines:
Reporting Limits:
* Special:

Shipping:

Carrier / Airbill No.

Relinquished by:

Signature	Date	Time
Jack R. Schulbe	7-9-04	1635

Received by:

Signature	Date	Time
Elizabeth A. Weber	7/9/04	1635
Stored in walk-in cooler over weekend. EAW	7/12/04	

Shaded Areas to be Completed by Lab

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler

PE-179 (3/96)

APPENDIX L

CSI Soil Analytical Data Sheets

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

August 11, 2004

Jim Gould
Philip Environmental
210 West Sand Bank Road
Columbia, IL 622360230
TEL: (618) 281-7173
FAX: (618) 281-5120

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: A831-735002-012901-225/IP Champaign OrderNo. 04070377

Dear Jim Gould:

TEKLAB, INC received 42 samples on 7/15/04 9:46:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Philip Environmental
Project: A831-735002-012901-225/IP Champaign
LabOrder: 04070377
Report Date: August 11, 2004

CASE NARRATIVE

This is a revised report. The list of VOC (8260) and SVOC(8270) compounds has been revised according to IEPA Title 35, Subtitle G, Chapter I, Part 740, Appendix A. Please replace your original report for this work order with this revised report.

Analytical Comments for METHODS V_BTEX_S & V_8260S_S: SAMPLE 04070377-001E, 005E, 026D, 031D, 032D, 041D: Matrix interference present in sample. For SAMPLE 04070377-006E, 011D, 015D, 019D, 021D, 022D, 024D, 025D, 027D, 028D, 030E, 033D, 034E, 037D: Elevated reporting limit due to matrix interference.

Analytical Comments for METHODS SV_8270S_S_SIMS: SAMPLE 04070377-002AMS, 002AMSD: The recovery of Pyrene was lower than QC limits because of sample composition. For SAMPLE 04070377-019A, 025A, 026A, 029A, 030A, 032A, 033A, 037A, 038A, 039A: Elevated reporting limit due to matrix interference. For SAMPLE 04070377-029AMS, 029AMSD: Elevated reporting limit due to matrix interference. Matrix spike was diluted out. For SAMPLE 04070377-016A, 020A, 040A: Elevated reporting limit due to matrix interference. Surrogate was diluted out.

Analytical Comments for METHOD SV_8270S_S: SAMPLE 04070377-001A, 021A, 022A, 027A, 028A, 034A: Elevated reporting limit due to matrix interference. For SAMPLE 04070377-006A: Matrix interference present in sample. For SAMPLE 04070377-001AMS, 001AMSD: Elevated reporting limit due to matrix interference. Matrix spike recoveries were not within acceptable limits because of sample composition.

Analytical Comments for METHOD SV_OA2_S: SAMPLE 04070377-001A, 024A: #: Unknown hydrocarbon. For SAMPLE 04070377-006A: #: Unknown hydrocarbon. Elevated reporting limit due to matrix interference. For SAMPLE 04070377-006AMS, 06AMSD: #: Unknown hydrocarbon. Matrix spike was diluted out. Elevated reporting limit due to matrix interference. For SAMPLE 04070377-011A, 016A, 026A, 030A, 033A, 040A: #: Unknown hydrocarbon. Surrogate was diluted out. Elevated reporting limit due to matrix interference.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B510-2 (1-2)
Collection Date: 7/12/04 10:55:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**24.5**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**75.5**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**10.8**	mg/Kg-dry	1	7/27/04 9:18:49 AM	JMW
Barium	NELAP	0.48		**84.6**	mg/Kg-dry	1	7/24/04 6:07:51 PM	SAM
Cadmium	NELAP	0.19		**0.58**	mg/Kg-dry	1	7/24/04 6:07:51 PM	SAM
Chromium	NELAP	0.96		**16.0**	mg/Kg-dry	1	7/26/04 12:05:36 PM	JMW
Lead	NELAP	3.85		**128**	mg/Kg-dry	1	7/24/04 6:07:51 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/24/04 6:07:51 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/24/04 6:07:51 PM	SAM
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	6.57		**50.9 #**	mg/Kg-dry	1	7/21/04 9:22:00 PM	CJS
Kerosene	NELAP	6.57		**ND**	mg/Kg-dry	1	7/21/04 9:22:00 PM	CJS
Mineral Spirits	NELAP	6.57		**ND**	mg/Kg-dry	1	7/21/04 9:22:00 PM	CJS
Motor Oil	NELAP	6.57		**97.9 #**	mg/Kg-dry	1	7/21/04 9:22:00 PM	CJS
Surr: n-Tetracontane	NELAP	50.6-140		**64.8**	%REC	1	7/21/04 9:22:00 PM	CJS
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	9.85		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
1,2-Dichlorobenzene	NELAP	9.85		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
1,3-Dichlorobenzene	NELAP	9.85		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
1,4-Dichlorobenzene	NELAP	9.85		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2,4,5-Trichlorophenol	NELAP	6.89		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2,4,6-Trichlorophenol	NELAP	6.89		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2,4-Dichlorophenol	NELAP	9.85		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2,4-Dimethylphenol	NELAP	9.85		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2,4-Dinitrophenol	NELAP	19.7		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2,4-Dinitrotoluene	NELAP	6.89		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2,6-Dinitrotoluene	NELAP	6.89		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2-Chloronaphthalene	NELAP	6.89		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2-Chlorophenol	NELAP	9.85		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2-Methylnaphthalene	NELAP	6.89		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2-Nitroaniline	NELAP	19.7		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
2-Nitrophenol	NELAP	6.89		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
3,3'-Dichlorobenzidine	NELAP	6.89		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
3-Nitroaniline	NELAP	19.7		**ND**	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B510-2 (1-2)
Collection Date: 7/12/04 10:55:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4,6-Dinitro-2-methylphenol	NELAP	19.7		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
4-Bromophenyl phenyl ether	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
4-Chloro-3-methylphenol	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
4-Chloroaniline	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
4-Chlorophenyl phenyl ether	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
4-Nitroaniline	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
4-Nitrophenol	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Acenaphthene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Acenaphthylene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Anthracene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Benzo(a)anthracene	NELAP	6.89	J	2.9	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Benzo(a)pyrene	NELAP	6.89	J	3.2	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Benzo(b)fluoranthene	NELAP	6.89	J	4.5	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Benzo(g,h,i)perylene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Benzo(k)fluoranthene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Bis(2-chloroethoxy)methane	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Bis(2-chloroethyl)ether	NELAP	8.98		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Bis(2-chloroisopropyl)ether	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Bis(2-ethylhexyl)phthalate	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Butyl benzyl phthalate	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Carbazole		9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Chrysene	NELAP	6.89	J	3.6	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Di-n-butyl phthalate	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Di-n-octyl phthalate	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Dibenzo(a,h)anthracene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Dibenzofuran	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Diethyl phthalate	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Dimethyl phthalate		6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Fluoranthene	NELAP	6.89	J	3.7	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Fluorene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Hexachlorobenzene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Hexachlorobutadiene	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Hexachlorocyclopentadiene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Hexachloroethane	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Indeno(1,2,3-cd)pyrene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Isophorone	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
m,p-Cresol	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B510-2 (1-2)
Collection Date: 7/12/04 10:55:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
N-Nitroso-di-n-propylamine	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
N-Nitrosodiphenylamine	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Naphthalene	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Nitrobenzene	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
o-Cresol	NELAP	9.85		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Pentachlorophenol	NELAP	39.4		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Phenanthrene	NELAP	6.89	J	2.0	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Phenol	NELAP	6.89		ND	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Pyrene	NELAP	9.85	J	5.8	mg/Kg-dry	5	7/23/04 3:23:00 AM	SML
Surr: 2,4,6-Tribromophenol		31-123		68.9	%REC	5	7/23/04 3:23:00 AM	SML
Surr: 2-Fluorobiphenyl		14.6-132	S	134	%REC	5	7/23/04 3:23:00 AM	SML
Surr: 2-Fluorophenol		27-111		92.4	%REC	5	7/23/04 3:23:00 AM	SML
Surr: Nitrobenzene-d5		28.9-113	S	118	%REC	5	7/23/04 3:23:00 AM	SML
Surr: p-Terphenyl-d14		25-144		130	%REC	5	7/23/04 3:23:00 AM	SML
Surr: Phenol-d5		33.7-123		114	%REC	5	7/23/04 3:23:00 AM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
1,1,2-Trichloroethane	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
1,1-Dichloroethane	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
1,1-Dichloroethene	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
1,2-Dichloroethane	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
1,2-Dichloropropane	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
2-Butanone	NELAP	60.8		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
2-Hexanone	NELAP	60.8		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
4-Methyl-2-pentanone	NELAP	60.8		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Acetone	NELAP	60.8	J	38	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Benzene	NELAP	1.2		31.2	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Bromodichloromethane	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Bromoform	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Bromomethane	NELAP	12.2		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Carbon disulfide	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Carbon tetrachloride	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Chlorobenzene	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Chloroethane	NELAP	12.2		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Chloroform	NELAP	6.1		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Chloromethane	NELAP	12.2		ND	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B510-2 (1-2)
Collection Date: 7/12/04 10:55:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
cis-1,2-Dichloroethene	NELAP	6.1		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	4.9		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Dibromochloromethane	NELAP	6.1		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Ethylbenzene	NELAP	6.1	J	**2.2**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Methyl tert-butyl ether	NELAP	2.4		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Methylene chloride	NELAP	6.1		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Styrene	NELAP	6.1		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Tetrachloroethene	NELAP	6.1		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Toluene	NELAP	6.1		**7.6**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	6.1		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	4.9		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Trichloroethene	NELAP	6.1		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Vinyl chloride	NELAP	2.4		**ND**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Xylenes, Total	NELAP	6.1		**8.1**	µg/Kg-dry	1	7/18/04 6:56:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**113**	%REC	1	7/18/04 6:56:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**68.3**	%REC	1	7/18/04 6:56:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**115**	%REC	1	7/18/04 6:56:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**91.1**	%REC	1	7/18/04 6:56:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		**0.432**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/23/04 3:54:00 PM	SML
SW-846 9010, 9014								
Cyanide	NELAP	0.63		**6.43**	mg/kg-dry	1	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.69**		1	7/16/04 10:40:00 AM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-002
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B510-5 (4-5)
Collection Date: 7/12/04 11:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.2**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.8**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.313		**ND**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Acenaphthylene	NELAP	0.313	J	**0.15**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Anthracene	NELAP	0.313	J	**0.067**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Benzo(a)anthracene	NELAP	0.313		**0.498**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Benzo(a)pyrene	NELAP	0.313		**0.509**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.313		**0.707**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.313	J	**0.28**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.313	J	**0.22**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Chrysene	NELAP	0.313		**0.589**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.313	J	**0.074**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Fluoranthene	NELAP	0.313		**0.652**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Fluorene	NELAP	0.313	J	**0.048**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.313	J	**0.23**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Naphthalene	NELAP	0.313	J	**0.033**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Phenanthrene	NELAP	0.313	J	**0.21**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Pyrene	NELAP	0.313		**1.04**	mg/Kg-dry	1	7/16/04 6:03:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**64.5**	%REC	1	7/16/04 6:03:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**66.6**	%REC	1	7/16/04 6:03:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**75.0**	%REC	1	7/16/04 6:03:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.0		**4.3**	µg/Kg-dry	1	7/19/04 2:08:00 PM	HLR
Toluene	NELAP	4.9	J	**1.7**	µg/Kg-dry	1	7/19/04 2:08:00 PM	HLR
Ethylbenzene	NELAP	4.9		**ND**	µg/Kg-dry	1	7/19/04 2:08:00 PM	HLR
Xylenes, Total	NELAP	4.9	J	**1.3**	µg/Kg-dry	1	7/19/04 2:08:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**101**	%REC	1	7/19/04 2:08:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**86.2**	%REC	1	7/19/04 2:08:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.2**	%REC	1	7/19/04 2:08:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**97.8**	%REC	1	7/19/04 2:08:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-003
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B510-12 (11-12)
Collection Date: 7/12/04 12:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**12.0**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**88.0**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Acenaphthylene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Anthracene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Benzo(a)anthracene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Benzo(a)pyrene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Chrysene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Fluoranthene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Fluorene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Naphthalene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Phenanthrene	NELAP	0.099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Pyrene	NELAP	0 099		**ND**	mg/Kg-dry	1	7/16/04 2:47:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**68.7**	%REC	1	7/16/04 2:47:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**65.7**	%REC	1	7/16/04 2:47:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**75.3**	%REC	1	7/16/04 2:47:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**1.3**	µg/Kg-dry	1	7/19/04 2:39:00 PM	HLR
Toluene	NELAP	3.9	J	**1.8**	µg/Kg-dry	1	7/19/04 2:39:00 PM	HLR
Ethylbenzene	NELAP	3.9		**ND**	µg/Kg-dry	1	7/19/04 2:39:00 PM	HLR
Xylenes, Total	NELAP	3.9	J	**1.0**	µg/Kg-dry	1	7/19/04 2:39:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**106**	%REC	1	7/19/04 2:39:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.3**	%REC	1	7/19/04 2:39:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**100**	%REC	1	7/19/04 2:39:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	1	7/19/04 2:39:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-004
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B510-28 (27-28)
Collection Date: 7/12/04 12:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**13.8**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**86.2**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Acenaphthylene	NELAP	0.097	J	**0.010**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Anthracene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Benzo(a)anthracene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Benzo(a)pyrene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Chrysene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Fluoranthene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Fluorene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Naphthalene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Phenanthrene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Pyrene	NELAP	0.097		**ND**	mg/Kg-dry	1	7/16/04 3:26:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**72.2**	%REC	1	7/16/04 3:26:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**65.4**	%REC	1	7/16/04 3:26:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**78.4**	%REC	1	7/16/04 3:26:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		**1.0**	µg/Kg-dry	1	7/22/04 5:06:00 PM	HLR
Toluene	NELAP	4.3	J	**1.2**	µg/Kg-dry	1	7/22/04 5:06:00 PM	HLR
Ethylbenzene	NELAP	4.3		**ND**	µg/Kg-dry	1	7/22/04 5:06:00 PM	HLR
Xylenes, Total	NELAP	4.3	J	**1.4**	µg/Kg-dry	1	7/22/04 5:06:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**117**	%REC	1	7/22/04 5:06:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**83.8**	%REC	1	7/22/04 5:06:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**106**	%REC	1	7/22/04 5:06:00 PM	HLR
Surr: Toluene-d8		82 8-112.8		**96.0**	%REC	1	7/22/04 5:06:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-005
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B512-3 (2-3)
Collection Date: 7/12/04 2:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.9**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.1**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		**21.6**	mg/Kg-dry	1	7/27/04 9:41:23 AM	JMW
Barium	NELAP	0.49		**98.0**	mg/Kg-dry	1	7/24/04 6:44:08 PM	SAM
Cadmium	NELAP	0.20		**1.01**	mg/Kg-dry	1	7/24/04 6:44:08 PM	SAM
Chromium	NELAP	0.98		**26.7**	mg/Kg-dry	1	7/26/04 5:33:12 PM	JMW
Lead	NELAP	3.92		**158**	mg/Kg-dry	1	7/24/04 6:44:08 PM	SAM
Selenium	NELAP	3.92		**< 3.92**	mg/Kg-dry	1	7/24/04 6:44:08 PM	SAM
Silver	NELAP	0.98		**< 0.98**	mg/Kg-dry	1	7/24/04 6:44:08 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.737	J	**0.33**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Acenaphthylene	NELAP	0.737		**1.23**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Anthracene	NELAP	0.737		**1.74**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Benzo(a)anthracene	NELAP	0.737		**2.87**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Benzo(a)pyrene	NELAP	0.737		**2.94**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.737		**4.31**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.737		**1.34**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.737		**1.50**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Chrysene	NELAP	0.737		**3.23**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.737	J	**0.43**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Fluoranthene	NELAP	0.737		**7.83**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Fluorene	NELAP	0.737		**1.07**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.737		**1.62**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Naphthalene	NELAP	0.737	J	**0.58**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Phenanthrene	NELAP	0.737		**5.99**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Pyrene	NELAP	0.737		**6.02**	mg/Kg-dry	1	7/18/04 5:54:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**83.7**	%REC	1	7/18/04 5:54:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**72.3**	%REC	1	7/18/04 5:54:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**87.0**	%REC	1	7/18/04 5:54:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		**8.3**	µg/Kg-dry	1	7/18/04 2:58:00 AM	HLR
Toluene	NELAP	4.6		**4.9**	µg/Kg-dry	1	7/18/04 2:58:00 AM	HLR
Ethylbenzene	NELAP	4.6	J	**1.3**	µg/Kg-dry	1	7/18/04 2:58:00 AM	HLR
Xylenes, Total	NELAP	4.6	J	**3.8**	µg/Kg-dry	1	7/18/04 2:58:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-005
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B512-3 (2-3)
Collection Date: 7/12/04 2:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**107**	%REC	1	7/18/04 2:58:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**73.6**	%REC	1	7/18/04 2:58:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**103**	%REC	1	7/18/04 2:58:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**89.1**	%REC	1	7/18/04 2:58:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.011		**0.291**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	2.77		**68.7**	mg/kg-dry	5	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.44**		1	7/15/04 4:49:00 PM	EAW

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-006
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B512-8 (7-8)
Collection Date: 7/12/04 2:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.2**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**79.8**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		**10.3**	mg/Kg-dry	1	7/27/04 9:43:20 AM	JMW
Barium	NELAP	0.49		**224**	mg/Kg-dry	1	7/24/04 6:49:54 PM	SAM
Cadmium	NELAP	0.20		**0.28**	mg/Kg-dry	1	7/24/04 6:49:54 PM	SAM
Chromium	NELAP	0.98		**18.8**	mg/Kg-dry	1	7/26/04 5:42:08 PM	JMW
Lead	NELAP	3.92		**15.0**	mg/Kg-dry	1	7/24/04 6:49:54 PM	SAM
Selenium	NELAP	3.92		**< 3.92**	mg/Kg-dry	1	7/24/04 6:49:54 PM	SAM
Silver	NELAP	0.98		**< 0.98**	mg/Kg-dry	1	7/24/04 6:49:54 PM	SAM
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	62.3		**830 #**	mg/Kg-dry	10	7/20/04 12:04:00 PM	CJS
Kerosene	NELAP	62.3		**ND**	mg/Kg-dry	10	7/20/04 12:04:00 PM	CJS
Mineral Spirits	NELAP	62.3		**ND**	mg/Kg-dry	10	7/20/04 12:04:00 PM	CJS
Motor Oil	NELAP	62.3		**ND**	mg/Kg-dry	10	7/20/04 12:04:00 PM	CJS
Surr: n-Tetracontane	NELAP	50.6-140		**75.0**	%REC	10	7/20/04 12:04:00 PM	CJS
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.631		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
1,2-Dichlorobenzene	NELAP	0.631		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
1,3-Dichlorobenzene	NELAP	0.631		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
1,4-Dichlorobenzene	NELAP	0.631		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2,4,5-Trichlorophenol	NELAP	0.442		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2,4,6-Trichlorophenol	NELAP	0.442		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2,4-Dichlorophenol	NELAP	0.631		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2,4-Dimethylphenol	NELAP	0.631		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.26		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2,4-Dinitrotoluene	NELAP	0.442		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2,6-Dinitrotoluene	NELAP	0.442		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2-Chloronaphthalene	NELAP	0.442		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2-Chlorophenol	NELAP	0.631		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2-Methylnaphthalene	NELAP	0.442		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2-Nitroaniline	NELAP	1.26		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
2-Nitrophenol	NELAP	0.442		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
3,3'-Dichlorobenzidine	NELAP	0.442		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
3-Nitroaniline	NELAP	1.26		**ND**	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-006
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B512-8 (7-8)
Collection Date: 7/12/04 2:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4,6-Dinitro-2-methylphenol	NELAP	1.26		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
4-Bromophenyl phenyl ether	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
4-Chloro-3-methylphenol	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
4-Chloroaniline	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
4-Chlorophenyl phenyl ether	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
4-Nitroaniline	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
4-Nitrophenol	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Acenaphthene	NELAP	0.442	J	0.30	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Acenaphthylene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Anthracene	NELAP	0.442	J	0.15	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Benzo(a)anthracene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Benzo(a)pyrene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Bis(2-chloroethyl)ether	NELAP	0.575		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Bis(2-chloroisopropyl)ether	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Butyl benzyl phthalate	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Carbazole		0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Chrysene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Di-n-octyl phthalate	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Dibenzofuran	NELAP	0.442	J	0.30	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Diethyl phthalate	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Dimethyl phthalate		0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Fluoranthene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Fluorene	NELAP	0.442	J	0.31	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Hexachlorobenzene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Hexachlorobutadiene	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Hexachlorocyclopentadiene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Hexachloroethane	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Isophorone	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
m,p-Cresol	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-006
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B512-8 (7-8)
Collection Date: 7/12/04 2:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
N-Nitroso-di-n-propylamine	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
N-Nitrosodiphenylamine	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Naphthalene	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Nitrobenzene	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
o-Cresol	NELAP	0.631		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Pentachlorophenol	NELAP	2.52		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Phenanthrene	NELAP	0.442		0.644	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Phenol	NELAP	0.442		ND	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Pyrene	NELAP	0.631	J	0.15	mg/Kg-dry	1	7/20/04 8:51:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123	S	126	%REC	1	7/20/04 8:51:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		79.1	%REC	1	7/20/04 8:51:00 AM	DMH
Surr: 2-Fluorophenol		27-111		81.0	%REC	1	7/20/04 8:51:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		52.1	%REC	1	7/20/04 8:51:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		78.2	%REC	1	7/20/04 8:51:00 AM	DMH
Surr: Phenol-d5		33.7-123		93.6	%REC	1	7/20/04 8:51:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
1,1,2-Trichloroethane	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
1,1-Dichloroethane	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
1,1-Dichloroethene	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
1,2-Dichloroethane	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
1,2-Dichloropropane	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
2-Butanone	NELAP	1220	J	470	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
2-Hexanone	NELAP	1220		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
4-Methyl-2-pentanone	NELAP	1220		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Acetone	NELAP	1220		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Benzene	NELAP	24.4		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Bromodichloromethane	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Bromoform	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Bromomethane	NELAP	244		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Carbon disulfide	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Carbon tetrachloride	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Chlorobenzene	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Chloroethane	NELAP	244		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Chloroform	NELAP	122		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Chloromethane	NELAP	244		ND	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR

TEKLAB, INC.

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-006
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B512-8 (7-8)
Collection Date: 7/12/04 2:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
cis-1,2-Dichloroethene	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	97.6		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Dibromochloromethane	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Ethylbenzene	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Methyl tert-butyl ether	NELAP	48.8		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Methylene chloride	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Styrene	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Tetrachloroethene	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Toluene	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	97.6		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Trichloroethene	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Vinyl chloride	NELAP	48.8		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Xylenes, Total	NELAP	122		**ND**	µg/Kg-dry	12.5	7/18/04 7:27:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**99.2**	%REC	12.5	7/18/04 7:27:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.9**	%REC	12.5	7/18/04 7:27:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**91.0**	%REC	12.5	7/18/04 7:27:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	12.5	7/18/04 7:27:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.037**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/23/04 4:10:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.56**		1	7/15/04 4:50:00 PM	EAW

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-007
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B512-11 (10-11)
Collection Date: 7/12/04 3:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**15.2**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**84.8**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.579	J	**0.18**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Acenaphthylene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Anthracene	NELAP	0.579	J	**0.083**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Benzo(a)anthracene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Benzo(a)pyrene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Chrysene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Fluoranthene	NELAP	0.579	J	**0.066**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Fluorene	NELAP	0.579	J	**0.16**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.579		**ND**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Naphthalene	NELAP	0.579	J	**0.10**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Phenanthrene	NELAP	0.579	J	**0.32**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Pyrene	NELAP	0.579	J	**0.087**	mg/Kg-dry	1	7/16/04 4:05:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**76.6**	%REC	1	7/16/04 4:05:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**72.1**	%REC	1	7/16/04 4:05:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**81.1**	%REC	1	7/16/04 4:05:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		**0.9**	µg/Kg-dry	1	7/22/04 5:38:00 PM	HLR
Toluene	NELAP	4.4	J	**1.1**	µg/Kg-dry	1	7/22/04 5:38:00 PM	HLR
Ethylbenzene	NELAP	4.4		**ND**	µg/Kg-dry	1	7/22/04 5:38:00 PM	HLR
Xylenes, Total	NELAP	4.4	J	**1.8**	µg/Kg-dry	1	7/22/04 5:38:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**105**	%REC	1	7/22/04 5:38:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**94.1**	%REC	1	7/22/04 5:38:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.7**	%REC	1	7/22/04 5:38:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**98.4**	%REC	1	7/22/04 5:38:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-008
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B512-24 (23-24)
Collection Date: 7/12/04 3:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.5**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.5**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Acenaphthylene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Anthracene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Benzo(a)anthracene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Benzo(a)pyrene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Chrysene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Fluoranthene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Fluorene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Naphthalene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Phenanthrene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Pyrene	NELAP	0.101		**ND**	mg/Kg-dry	1	7/16/04 4:45:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**71.6**	%REC	1	7/16/04 4:45:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**70.4**	%REC	1	7/16/04 4:45:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**76.3**	%REC	1	7/16/04 4:45:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.7		**1.2**	µg/Kg-dry	1	7/18/04 4:01:00 AM	HLR
Toluene	NELAP	3.7	J	**1.2**	µg/Kg-dry	1	7/18/04 4:01:00 AM	HLR
Ethylbenzene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 4:01:00 AM	HLR
Xylenes, Total	NELAP	3.7	J	**1.2**	µg/Kg-dry	1	7/18/04 4:01:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**102**	%REC	1	7/18/04 4:01:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**85.3**	%REC	1	7/18/04 4:01:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**96.0**	%REC	1	7/18/04 4:01:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**96.8**	%REC	1	7/18/04 4:01:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070377	**Client Sample ID:**	B513-2 (1-2)
Lab ID:	04070377-009	**Collection Date:**	7/12/04 3:55:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**19.6**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**80.4**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**13.6**	mg/Kg-dry	1	7/26/04 5:45:08 PM	JMW
Barium	NELAP	0.50		**129**	mg/Kg-dry	1	7/24/04 6:54:57 PM	SAM
Cadmium	NELAP	0.20		**0.36**	mg/Kg-dry	1	7/24/04 6:54:57 PM	SAM
Chromium	NELAP	1.00		**22.4**	mg/Kg-dry	1	7/26/04 5:45:08 PM	JMW
Lead	NELAP	4.00		**470**	mg/Kg-dry	1	7/24/04 6:54:57 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	7/24/04 6:54:57 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	7/24/04 6:54:57 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.121	J	**0.052**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Acenaphthylene	NELAP	0.121	J	**0.10**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Anthracene	NELAP	0.121		**0.221**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Benzo(a)anthracene	NELAP	0.121		**0.803**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Benzo(a)pyrene	NELAP	0.121		**0.821**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.121		**1.33**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.121		**0.307**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.121		**0.492**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Chrysene	NELAP	0.121		**0.934**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.121	J	**0.12**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Fluoranthene	NELAP	0.121		**1.70**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Fluorene	NELAP	0.121	J	**0.051**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.121		**0.404**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Naphthalene	NELAP	0.121	J	**0.052**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Phenanthrene	NELAP	0.121		**0.837**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Pyrene	NELAP	0.121		**1.34**	mg/Kg-dry	1	7/18/04 6:33:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**78.3**	%REC	1	7/18/04 6:33:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**68.0**	%REC	1	7/18/04 6:33:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**81.8**	%REC	1	7/18/04 6:33:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.1		**7.6**	µg/Kg-dry	1	7/18/04 4:32:00 AM	HLR
Toluene	NELAP	5.4	J	**3.2**	µg/Kg-dry	1	7/18/04 4:32:00 AM	HLR
Ethylbenzene	NELAP	5.4		**ND**	µg/Kg-dry	1	7/18/04 4:32:00 AM	HLR
Xylenes, Total	NELAP	5.4	J	**1.8**	µg/Kg-dry	1	7/18/04 4:32:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-009
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-2 (1-2)
Collection Date: 7/12/04 3:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**101**	%REC	1	7/18/04 4:32:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.4**	%REC	1	7/18/04 4:32:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.6**	%REC	1	7/18/04 4:32:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.4**	%REC	1	7/18/04 4:32:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.352**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.60		**17.0**	mg/kg-dry	1	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**6.83**		1	7/15/04 4:52:00 PM	EAW

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-010
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-2D (1-2)
Collection Date: 7/12/04 4:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.3**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**79.7**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**10.6**	mg/Kg-dry	1	7/27/04 9:50:10 AM	JMW
Barium	NELAP	0.50		**124**	mg/Kg-dry	1	7/24/04 7:00:00 PM	SAM
Cadmium	NELAP	0.20	J	**0.15**	mg/Kg-dry	1	7/24/04 7:00:00 PM	SAM
Chromium	NELAP	1.00		**19.2**	mg/Kg-dry	1	7/26/04 5:48:14 PM	JMW
Lead	NELAP	4.00		**83.6**	mg/Kg-dry	1	7/24/04 7:00:00 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	7/24/04 7:00:00 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	7/24/04 7:00:00 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.629		**ND**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Acenaphthylene	NELAP	0.629		**ND**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Anthracene	NELAP	0.629		**ND**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Benzo(a)anthracene	NELAP	0.629	J	**0.18**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Benzo(a)pyrene	NELAP	0.629	J	**0.19**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.629	J	**0.37**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.629	J	**0.11**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.629	J	**0.13**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Chrysene	NELAP	0.629	J	**0.26**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.629		**ND**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Fluoranthene	NELAP	0.629	J	**0.33**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Fluorene	NELAP	0.629		**ND**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.629	J	**0.10**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Naphthalene	NELAP	0.629	J	**0.096**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Phenanthrene	NELAP	0.629	J	**0.14**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Pyrene	NELAP	0.629	J	**0.34**	mg/Kg-dry	1	7/16/04 7:59:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**70.7**	%REC	1	7/16/04 7:59:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**65.3**	%REC	1	7/16/04 7:59:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**74.7**	%REC	1	7/16/04 7:59:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.1		**3.9**	µg/Kg-dry	1	7/18/04 5:03:00 AM	HLR
Toluene	NELAP	5.7	J	**2.7**	µg/Kg-dry	1	7/18/04 5:03:00 AM	HLR
Ethylbenzene	NELAP	5.7		**ND**	µg/Kg-dry	1	7/18/04 5:03:00 AM	HLR
Xylenes, Total	NELAP	5.7	J	**1.2**	µg/Kg-dry	1	7/18/04 5:03:00 AM	HLR

TEKLAB, INC.

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-010
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-2D (1-2)
Collection Date: 7/12/04 4:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**106**	%REC	1	7/18/04 5:03:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.8**	%REC	1	7/18/04 5:03:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**98.2**	%REC	1	7/18/04 5:03:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	1	7/18/04 5:03:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.053**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.61		**13.8**	mg/kg-dry	1	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**5.91**		1	7/15/04 4:54:00 PM	EAW

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-011
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-8 (7-8)
Collection Date: 7/12/04 4:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**14.5**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**85.5**	%	1	7/16/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	144		**884 #**	mg/Kg-dry	25	7/20/04 2:57:00 PM	CJS
Kerosene	NELAP	144		**ND**	mg/Kg-dry	25	7/20/04 2:57:00 PM	CJS
Mineral Spirits	NELAP	144		**ND**	mg/Kg-dry	25	7/20/04 2:57:00 PM	CJS
Motor Oil	NELAP	144		**ND**	mg/Kg-dry	25	7/20/04 2:57:00 PM	CJS
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	25	7/20/04 2:57:00 PM	CJS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.660		**1.58**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Acenaphthylene	NELAP	0.660		**2.04**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Anthracene	NELAP	0.660		**2.78**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Benzo(a)anthracene	NELAP	0.660		**1.15**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Benzo(a)pyrene	NELAP	0.660		**0.954**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.660		**0.822**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.660	J	**0.42**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.660	J	**0.28**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Chrysene	NELAP	0.660		**1.09**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.660	J	**0.11**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Fluoranthene	NELAP	0.660		**2.07**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Fluorene	NELAP	0.660		**4.23**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.660	J	**0.43**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Naphthalene	NELAP	0.660		**ND**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Phenanthrene	NELAP	0.660		**9.26**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Pyrene	NELAP	0.660		**3.17**	mg/Kg-dry	1	7/18/04 3:53:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**81.2**	%REC	1	7/18/04 3:53:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**60.0**	%REC	1	7/18/04 3:53:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**71.2**	%REC	1	7/18/04 3:53:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	20.2		**ND**	µg/Kg-dry	12.5	7/22/04 6:09:00 PM	HLR
Toluene	NELAP	101		**ND**	µg/Kg-dry	12.5	7/22/04 6:09:00 PM	HLR
Ethylbenzene	NELAP	101	J	**36**	µg/Kg-dry	12.5	7/22/04 6:09:00 PM	HLR
Xylenes, Total	NELAP	101	J	**44**	µg/Kg-dry	12.5	7/22/04 6:09:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**97.0**	%REC	12.5	7/22/04 6:09:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.2**	%REC	12.5	7/22/04 6:09:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-011
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-8 (7-8)
Collection Date: 7/12/04 4:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**94.0**	%REC	12.5	7/22/04 6:09:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	12.5	7/22/04 6:09:00 PM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-12 (11-12)
Collection Date: 7/12/04 5:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.9**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.1**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**4.07**	mg/Kg-dry	1	7/27/04 10:24:25 AM	JMW
Barium	NELAP	0.50		**33.1**	mg/Kg-dry	1	7/24/04 7:05:03 PM	SAM
Cadmium	NELAP	0.20		**< 0.20**	mg/Kg-dry	1	7/24/04 7:05:03 PM	SAM
Chromium	NELAP	1.00		**18.2**	mg/Kg-dry	1	7/26/04 5:51:12 PM	JMW
Lead	NELAP	4.00		**10.9**	mg/Kg-dry	1	7/24/04 7:05:03 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	7/24/04 7:05:03 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	7/24/04 7:05:03 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
1,2-Dichlorobenzene	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
1,3-Dichlorobenzene	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
1,4-Dichlorobenzene	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2,4,5-Trichlorophenol	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2,4,6-Trichlorophenol	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2,4-Dichlorophenol	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2,4-Dimethylphenol	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.11		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2,4-Dinitrotoluene	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2,6-Dinitrotoluene	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2-Chloronaphthalene	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2-Chlorophenol	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2-Methylnaphthalene	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2-Nitroaniline	NELAP	1.11		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
2-Nitrophenol	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
3,3'-Dichlorobenzidine	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
3-Nitroaniline	NELAP	1.11		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
4,6-Dinitro-2-methylphenol	NELAP	1.11		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
4-Bromophenyl phenyl ether	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
4-Chloro-3-methylphenol	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
4-Chloroaniline	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
4-Chlorophenyl phenyl ether	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
4-Nitroaniline	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-12 (11-12)
Collection Date: 7/12/04 5:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Acenaphthene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Acenaphthylene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Anthracene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Benzo(a)anthracene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Benzo(a)pyrene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Bis(2-chloroethyl)ether	NELAP	0.508		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Bis(2-chloroisopropyl)ether	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Butyl benzyl phthalate	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Carbazole		0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Chrysene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Di-n-octyl phthalate	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Dibenzofuran	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Diethyl phthalate	NELAP	0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Dimethyl phthalate		0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Fluoranthene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Fluorene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Hexachlorobenzene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Hexachlorobutadiene	NELAP	0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Hexachlorocyclopentadiene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Hexachloroethane	NELAP	0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Isophorone	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
m,p-Cresol	NELAP	0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
N-Nitroso-di-n-propylamine	NELAP	0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
N-Nitrosodiphenylamine	NELAP	0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Naphthalene	NELAP	0.390		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Nitrobenzene	NELAP	0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
o-Cresol	NELAP	0.557		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Pentachlorophenol	NELAP	2.23		ND	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-12 (11-12)
Collection Date: 7/12/04 5:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Phenol	NELAP	0.390		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Pyrene	NELAP	0.557		**ND**	mg/Kg-dry	1	7/20/04 9:31:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**105**	%REC	1	7/20/04 9:31:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**82.8**	%REC	1	7/20/04 9:31:00 AM	DMH
Surr: 2-Fluorophenol		27-111		**74.1**	%REC	1	7/20/04 9:31:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		**72.6**	%REC	1	7/20/04 9:31:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		**94.1**	%REC	1	7/20/04 9:31:00 AM	DMH
Surr: Phenol-d5		33.7-123		**87.6**	%REC	1	7/20/04 9:31:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
1,1,2-Trichloroethane	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
1,1-Dichloroethane	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
1,1-Dichloroethene	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
1,2-Dichloroethane	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
1,2-Dichloropropane	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
2-Butanone	NELAP	40.7		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
2-Hexanone	NELAP	40.7		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
4-Methyl-2-pentanone	NELAP	40.7		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Acetone	NELAP	40.7	J	**19**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Benzene	NELAP	0.8		**1.8**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Bromodichloromethane	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Bromoform	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Bromomethane	NELAP	8.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Carbon disulfide	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Carbon tetrachloride	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Chlorobenzene	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Chloroethane	NELAP	8.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Chloroform	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Chloromethane	NELAP	8.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	3.3		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Dibromochloromethane	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Ethylbenzene	NELAP	4.1	J	**1.5**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Methyl tert-butyl ether	NELAP	1.6		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Methylene chloride	NELAP	4.1	J	**1.0**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-12 (11-12)
Collection Date: 7/12/04 5:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Tetrachloroethene	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Toluene	NELAP	4.1	J	**3.7**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	3.3		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Trichloroethene	NELAP	4.1		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Vinyl chloride	NELAP	1.6		**ND**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Xylenes, Total	NELAP	4.1	J	**3.5**	µg/Kg-dry	1	7/18/04 7:59:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	1	7/18/04 7:59:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**98.5**	%REC	1	7/18/04 7:59:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**95.6**	%REC	1	7/18/04 7:59:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	1	7/18/04 7:59:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.011	J	**0.006**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/23/04 4:26:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.97**		1	7/15/04 4:56:00 PM	EAW

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-013
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B513-24 (23-24)
Collection Date: 7/12/04 5:20:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.5**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.5**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Acenaphthylene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Anthracene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Benzo(a)anthracene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Benzo(a)pyrene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Chrysene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Fluoranthene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Fluorene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Naphthalene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Phenanthrene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Pyrene	NELAP	0.307		**ND**	mg/Kg-dry	1	7/16/04 5:24:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**61.6**	%REC	1	7/16/04 5:24:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**60.0**	%REC	1	7/16/04 5:24:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**68.8**	%REC	1	7/16/04 5:24:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**1.0**	µg/Kg-dry	1	7/18/04 6:06:00 AM	HLR
Toluene	NELAP	3.8	J	**1.0**	µg/Kg-dry	1	7/18/04 6:06:00 AM	HLR
Ethylbenzene	NELAP	3.8		**ND**	µg/Kg-dry	1	7/18/04 6:06:00 AM	HLR
Xylenes, Total	NELAP	3.8	J	**1.0**	µg/Kg-dry	1	7/18/04 6:06:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	1	7/18/04 6:06:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.2**	%REC	1	7/18/04 6:06:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.1**	%REC	1	7/18/04 6:06:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**98.4**	%REC	1	7/18/04 6:06:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-014
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-2 (1-2)
Collection Date: 7/13/04 8:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**19.9**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**80.1**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**9.28**	mg/Kg-dry	1	7/27/04 10:26:21 AM	JMW
Barium	NELAP	0.50		**143**	mg/Kg-dry	1	7/24/04 7:10:20 PM	SAM
Cadmium	NELAP	0.20		**0.28**	mg/Kg-dry	1	7/24/04 7:10:20 PM	SAM
Chromium	NELAP	1.00		**19.6**	mg/Kg-dry	1	7/26/04 5:54:12 PM	JMW
Lead	NELAP	4.00		**58.0**	mg/Kg-dry	1	7/24/04 7:10:20 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	7/24/04 7:10:20 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	7/24/04 7:10:20 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.124		**ND**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Acenaphthylene	NELAP	0.124	J	**0.078**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Anthracene	NELAP	0.124	J	**0.041**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Benzo(a)anthracene	NELAP	0.124		**0.272**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Benzo(a)pyrene	NELAP	0.124		**0.365**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.124		**0.491**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.124		**0.210**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.124		**0.189**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Chrysene	NELAP	0.124		**0.323**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.124	J	**0.061**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Fluoranthene	NELAP	0.124		**0.445**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Fluorene	NELAP	0.124		**ND**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.124		**0.238**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Naphthalene	NELAP	0.124	J	**0.033**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Phenanthrene	NELAP	0.124		**0.172**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Pyrene	NELAP	0.124		**0.439**	mg/Kg-dry	1	7/18/04 5:15:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**76.3**	%REC	1	7/18/04 5:15:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**64.7**	%REC	1	7/18/04 5:15:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**81.2**	%REC	1	7/18/04 5:15:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.1		**1.9**	µg/Kg-dry	1	7/18/04 6:37:00 AM	HLR
Toluene	NELAP	5.3		**ND**	µg/Kg-dry	1	7/18/04 6:37:00 AM	HLR
Ethylbenzene	NELAP	5.3		**ND**	µg/Kg-dry	1	7/18/04 6:37:00 AM	HLR
Xylenes, Total	NELAP	5.3		**ND**	µg/Kg-dry	1	7/18/04 6:37:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-014
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-2 (1-2)
Collection Date: 7/13/04 8:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**102**	%REC	1	7/18/04 6:37:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.0**	%REC	1	7/18/04 6:37:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**96.2**	%REC	1	7/18/04 6:37:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**102**	%REC	1	7/18/04 6:37:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.215**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.62		**1.38**	mg/kg-dry	1	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.76**		1	7/16/04 10:43:00 AM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-015
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-8 (7-8)
Collection Date: 7/13/04 9:10:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**19.7**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**80.3**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.301	J	**0.050**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Acenaphthylene	NELAP	0.301	J	**0.24**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Anthracene	NELAP	0.301	J	**0.18**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Benzo(a)anthracene	NELAP	0.301	J	**0.18**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Benzo(a)pyrene	NELAP	0.301	J	**0.27**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.301	J	**0.25**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.301	J	**0.063**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.301	J	**0.097**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Chrysene	NELAP	0.301	J	**0.17**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.301		**ND**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Fluoranthene	NELAP	0.301		**0.336**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Fluorene	NELAP	0.301		**0.328**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.301	J	**0.064**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Naphthalene	NELAP	0.301		**ND**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Phenanthrene	NELAP	0.301	J	**0.038**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Pyrene	NELAP	0.301		**0.502**	mg/Kg-dry	1	7/16/04 9:17:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**64.8**	%REC	1	7/16/04 9:17:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**54.7**	%REC	1	7/16/04 9:17:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**69.4**	%REC	1	7/16/04 9:17:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	24.6		**183**	µg/Kg-dry	12.5	7/18/04 7:08:00 AM	HLR
Toluene	NELAP	123		**ND**	µg/Kg-dry	12.5	7/18/04 7:08:00 AM	HLR
Ethylbenzene	NELAP	123	J	**41**	µg/Kg-dry	12.5	7/18/04 7:08:00 AM	HLR
Xylenes, Total	NELAP	123	J	**41**	µg/Kg-dry	12.5	7/18/04 7:08:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**101**	%REC	12.5	7/18/04 7:08:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**99.2**	%REC	12.5	7/18/04 7:08:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**93.5**	%REC	12.5	7/18/04 7:08:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	12.5	7/18/04 7:08:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-016
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-15 (14-15)
Collection Date: 7/13/04 9:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**11.3**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**88.7**	%	1	7/16/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	141		**1050 #**	mg/Kg-dry	25	7/21/04 4:47:00 AM	CJS
Kerosene	NELAP	141		**ND**	mg/Kg-dry	25	7/21/04 4:47:00 AM	CJS
Mineral Spirits	NELAP	141		**ND**	mg/Kg-dry	25	7/21/04 4:47:00 AM	CJS
Motor Oil	NELAP	141		**388 #**	mg/Kg-dry	25	7/21/04 4:47:00 AM	CJS
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	25	7/21/04 4:47:00 AM	CJS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	27.4		**38.6**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Acenaphthylene	NELAP	27.4		**57.7**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Anthracene	NELAP	27.4		**130**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Benzo(a)anthracene	NELAP	27.4		**66.8**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Benzo(a)pyrene	NELAP	27.4		**68.4**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Benzo(b)fluoranthene	NELAP	27.4		**72.5**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	27.4	J	**22**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Benzo(k)fluoranthene	NELAP	27.4	J	**21**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Chrysene	NELAP	27.4		**63.5**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	27.4	J	**7.3**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Fluoranthene	NELAP	27.4		**162**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Fluorene	NELAP	27.4		**124**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	27.4	J	**24**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Naphthalene	NELAP	274		**920**	mg/Kg-dry	500	7/25/04 6:12:00 PM	DMH
Phenanthrene	NELAP	27.4		**346**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Pyrene	NELAP	27.4		**165**	mg/Kg-dry	50	7/23/04 4:06:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	50	7/23/04 4:06:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	50	7/23/04 4:06:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	50	7/23/04 4:06:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	160		**16400**	µg/Kg-dry	100	7/22/04 6:41:00 PM	HLR
Toluene	NELAP	801		**6900**	µg/Kg-dry	100	7/22/04 6:41:00 PM	HLR
Ethylbenzene	NELAP	801		**2420**	µg/Kg-dry	100	7/22/04 6:41:00 PM	HLR
Xylenes, Total	NELAP	801		**16900**	µg/Kg-dry	100	7/22/04 6:41:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**100**	%REC	100	7/22/04 6:41:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.0**	%REC	100	7/22/04 6:41:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-016
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-15 (14-15)
Collection Date: 7/13/04 9:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**96.6**	%REC	100	7/22/04 6:41:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	100	7/22/04 6:41:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

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FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-017
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-24 (23-24)
Collection Date: 7/13/04 9:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.4**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.6**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.36		**3.46**	mg/Kg-dry	1	7/27/04 10:02:24 AM	JMW
Barium	NELAP	0.47		**14.7**	mg/Kg-dry	1	7/24/04 7:15:39 PM	SAM
Cadmium	NELAP	0.19	J	**0.10**	mg/Kg-dry	1	7/24/04 7:15:39 PM	SAM
Chromium	NELAP	0.94		**13.6**	mg/Kg-dry	1	7/26/04 5:57:12 PM	JMW
Lead	NELAP	3.77		**8.07**	mg/Kg-dry	1	7/24/04 7:15:39 PM	SAM
Selenium	NELAP	3.77		**< 3.77**	mg/Kg-dry	1	7/24/04 7:15:39 PM	SAM
Silver	NELAP	0.94		**< 0.94**	mg/Kg-dry	1	7/24/04 7:15:39 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
1,2-Dichlorobenzene	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
1,3-Dichlorobenzene	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
1,4-Dichlorobenzene	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2,4,5-Trichlorophenol	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2,4,6-Trichlorophenol	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2,4-Dichlorophenol	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2,4-Dimethylphenol	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.11		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2,4-Dinitrotoluene	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2,6-Dinitrotoluene	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2-Chloronaphthalene	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2-Chlorophenol	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2-Methylnaphthalene	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2-Nitroaniline	NELAP	1.11		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
2-Nitrophenol	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
3,3'-Dichlorobenzidine	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
3-Nitroaniline	NELAP	1.11		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
4,6-Dinitro-2-methylphenol	NELAP	1.11		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
4-Bromophenyl phenyl ether	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
4-Chloro-3-methylphenol	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
4-Chloroaniline	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
4-Chlorophenyl phenyl ether	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
4-Nitroaniline	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-017
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-24 (23-24)
Collection Date: 7/13/04 9:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Acenaphthene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Acenaphthylene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Anthracene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Benzo(a)anthracene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Benzo(a)pyrene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Bis(2-chloroethyl)ether	NELAP	0.506		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Bis(2-chloroisopropyl)ether	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.388		0.836	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Butyl benzyl phthalate	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Carbazole		0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Chrysene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Di-n-octyl phthalate	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Dibenzofuran	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Diethyl phthalate	NELAP	0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Dimethyl phthalate		0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Fluoranthene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Fluorene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Hexachlorobenzene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Hexachlorobutadiene	NELAP	0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Hexachlorocyclopentadiene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Hexachloroethane	NELAP	0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Isophorone	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
m,p-Cresol	NELAP	0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
N-Nitroso-di-n-propylamine	NELAP	0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
N-Nitrosodiphenylamine	NELAP	0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Naphthalene	NELAP	0.388		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Nitrobenzene	NELAP	0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
o-Cresol	NELAP	0.555		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Pentachlorophenol	NELAP	2.22		ND	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-017
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-24 (23-24)
Collection Date: 7/13/04 9:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Phenol	NELAP	0.388		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Pyrene	NELAP	0.555		**ND**	mg/Kg-dry	1	7/20/04 10:09:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**85.9**	%REC	1	7/20/04 10:09:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**84.9**	%REC	1	7/20/04 10:09:00 AM	DMH
Surr: 2-Fluorophenol		27-111		**75.6**	%REC	1	7/20/04 10:09:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		**74.6**	%REC	1	7/20/04 10:09:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		**90.8**	%REC	1	7/20/04 10:09:00 AM	DMH
Surr: Phenol-d5		33.7-123		**88.6**	%REC	1	7/20/04 10:09:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
1,1,2-Trichloroethane	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
1,1-Dichloroethane	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
1,1-Dichloroethene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
1,2-Dichloroethane	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
1,2-Dichloropropane	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
2-Butanone	NELAP	37.1		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
2-Hexanone	NELAP	37.1		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
4-Methyl-2-pentanone	NELAP	37.1		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Acetone	NELAP	37.1	J	**8.3**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Benzene	NELAP	0.7		**1.6**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Bromodichloromethane	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Bromoform	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Bromomethane	NELAP	7.4		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Carbon disulfide	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Carbon tetrachloride	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Chlorobenzene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Chloroethane	NELAP	7.4		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Chloroform	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Chloromethane	NELAP	7.4		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	3.0		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Dibromochloromethane	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Ethylbenzene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Methyl tert-butyl ether	NELAP	1.5		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Methylene chloride	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-017
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B501-24 (23-24)
Collection Date: 7/13/04 9:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Tetrachloroethene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Toluene	NELAP	3.7	J	**1.6**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	3.0		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Trichloroethene	NELAP	3.7		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Vinyl chloride	NELAP	1.5		**ND**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Xylenes, Total	NELAP	3.7	J	**2.0**	µg/Kg-dry	1	7/18/04 8:30:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	1	7/18/04 8:30:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**88.7**	%REC	1	7/18/04 8:30:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**96.8**	%REC	1	7/18/04 8:30:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**98.4**	%REC	1	7/18/04 8:30:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.011	J	**0.009**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/23/04 4:42:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.00**		1	7/16/04 10:45:00 AM	EAW

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-018
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B502-3 (2-3)
Collection Date: 7/13/04 10:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.0**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**91.0**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**58.5**	mg/Kg-dry	1	7/26/04 6:00:11 PM	JMW
Barium	NELAP	0.48		**58.3**	mg/Kg-dry	1	7/24/04 7:20:56 PM	SAM
Cadmium	NELAP	0.19		**0.50**	mg/Kg-dry	1	7/24/04 7:20:56 PM	SAM
Chromium	NELAP	0.96		**8.81**	mg/Kg-dry	1	7/26/04 6:00:11 PM	JMW
Lead	NELAP	3.85		**21.7**	mg/Kg-dry	1	7/24/04 7:20:56 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/24/04 7:20:56 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/24/04 7:20:56 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.290		**ND**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Acenaphthylene	NELAP	0.290	J	**0.034**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Anthracene	NELAP	0.290		**ND**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Benzo(a)anthracene	NELAP	0.290	J	**0.11**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Benzo(a)pyrene	NELAP	0.290	J	**0.16**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.290	J	**0.23**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.290	J	**0.12**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.290	J	**0.084**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Chrysene	NELAP	0.290	J	**0.12**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.290		**ND**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Fluoranthene	NELAP	0.290	J	**0.11**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Fluorene	NELAP	0.290		**ND**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.290	J	**0.084**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Naphthalene	NELAP	0.290	J	**0.12**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Phenanthrene	NELAP	0.290	J	**0.078**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Pyrene	NELAP	0.290	J	**0.14**	mg/Kg-dry	1	7/16/04 9:56:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**79.3**	%REC	1	7/16/04 9:56:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**67.1**	%REC	1	7/16/04 9:56:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**80.6**	%REC	1	7/16/04 9:56:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.0		**3.4**	µg/Kg-dry	1	7/22/04 7:13:00 PM	HLR
Toluene	NELAP	5.1		**5.5**	µg/Kg-dry	1	7/22/04 7:13:00 PM	HLR
Ethylbenzene	NELAP	5.1	J	**2.1**	µg/Kg-dry	1	7/22/04 7:13:00 PM	HLR
Xylenes, Total	NELAP	5.1		**6.5**	µg/Kg-dry	1	7/22/04 7:13:00 PM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-018
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B502-3 (2-3)
Collection Date: 7/13/04 10:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**115**	%REC	1	7/22/04 7:13:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**91.5**	%REC	1	7/22/04 7:13:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**106**	%REC	1	7/22/04 7:13:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**98.8**	%REC	1	7/22/04 7:13:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.011		**0.037**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.55		**1.02**	mg/kg-dry	1	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.09**		1	7/19/04 11:23:00 AM	EAW

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-019
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B502-7 (6-7)
Collection Date: 7/13/04 11:05:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**18.8**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**81.2**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	8.98		**15.5**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Acenaphthylene	NELAP	8.98	J	**2.7**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Anthracene	NELAP	8.98		**11.7**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Benzo(a)anthracene	NELAP	8.98	J	**8.7**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Benzo(a)pyrene	NELAP	8.98	J	**4.1**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Benzo(b)fluoranthene	NELAP	8.98		**17.6**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	8.98	J	**4.0**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Benzo(k)fluoranthene	NELAP	8.98	J	**5.6**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Chrysene	NELAP	8.98		**18.6**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	8.98	J	**1.9**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Fluoranthene	NELAP	8.98		**16.9**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Fluorene	NELAP	8.98		**20.1**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	8.98	J	**4.7**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Naphthalene	NELAP	8.98		**59.4**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Phenanthrene	NELAP	8.98		**49.6**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Pyrene	NELAP	8.98		**24.9**	mg/Kg-dry	25	7/21/04 4:52:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**79.8**	%REC	25	7/21/04 4:52:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**64.8**	%REC	25	7/21/04 4:52:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**99.7**	%REC	25	7/21/04 4:52:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	52.6		**10900**	µg/Kg-dry	25	7/22/04 7:44:00 PM	HLR
Toluene	NELAP	263	J	**220**	µg/Kg-dry	25	7/22/04 7:44:00 PM	HLR
Ethylbenzene	NELAP	263		**5660**	µg/Kg-dry	25	7/22/04 7:44:00 PM	HLR
Xylenes, Total	NELAP	263		**11000**	µg/Kg-dry	25	7/22/04 7:44:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**102**	%REC	25	7/22/04 7:44:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**94.7**	%REC	25	7/22/04 7:44:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**96.9**	%REC	25	7/22/04 7:44:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	25	7/22/04 7:44:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-020
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B502-12 (11-12)
Collection Date: 7/13/04 11:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**19.6**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**80.4**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**7.47**	mg/Kg-dry	1	7/26/04 6:04:11 PM	JMW
Barium	NELAP	0.48		**52.0**	mg/Kg-dry	1	7/24/04 7:26:13 PM	SAM
Cadmium	NELAP	0.19	J	**0.17**	mg/Kg-dry	1	7/24/04 7:26:13 PM	SAM
Chromium	NELAP	0.96		**11.8**	mg/Kg-dry	1	7/26/04 6:04:11 PM	JMW
Lead	NELAP	3.85		**12.3**	mg/Kg-dry	1	7/24/04 7:26:13 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/24/04 7:26:13 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/24/04 7:26:13 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	37.2	J	**36**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Acenaphthylene	NELAP	37.2		**50.3**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Anthracene	NELAP	37.2		**64.5**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Benzo(a)anthracene	NELAP	37.2		**54.5**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Benzo(a)pyrene	NELAP	37.2		**48.3**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Benzo(b)fluoranthene	NELAP	37.2		**56.0**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	37.2	J	**13**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Benzo(k)fluoranthene	NELAP	37.2	J	**17**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Chrysene	NELAP	37.2		**55.7**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	37.2	J	**5.5**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Fluoranthene	NELAP	37.2		**144**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Fluorene	NELAP	37.2		**115**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	37.2	J	**17**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Naphthalene	NELAP	186		**682**	mg/Kg-dry	500	7/25/04 6:51:00 PM	DMH
Phenanthrene	NELAP	37.2		**271**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Pyrene	NELAP	37.2		**113**	mg/Kg-dry	100	7/23/04 3:27:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	100	7/23/04 3:27:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	100	7/23/04 3:27:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	100	7/23/04 3:27:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	660		**30300**	µg/Kg-dry	250	7/22/04 8:16:00 PM	HLR
Toluene	NELAP	3300		**108000**	µg/Kg-dry	250	7/22/04 8:16:00 PM	HLR
Ethylbenzene	NELAP	3300		**25300**	µg/Kg-dry	250	7/22/04 8:16:00 PM	HLR
Xylenes, Total	NELAP	3300		**226000**	µg/Kg-dry	250	7/22/04 8:16:00 PM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-020
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B502-12 (11-12)
Collection Date: 7/13/04 11:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	250	7/22/04 8:16:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.6**	%REC	250	7/22/04 8:16:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**98.8**	%REC	250	7/22/04 8:16:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	250	7/22/04 8:16:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.050**	mg/Kg-dry	1	7/22/04	SRS

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-021
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-3 (2-3)
Collection Date: 7/13/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**19.4**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**80.6**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**8.31**	mg/Kg-dry	1	7/27/04 10:30:14 AM	JMW
Barium	NELAP	0.50		**99.6**	mg/Kg-dry	1	7/24/04 7:31:31 PM	SAM
Cadmium	NELAP	0.20		**0.30**	mg/Kg-dry	1	7/24/04 7:31:31 PM	SAM
Chromium	NELAP	1.00		**18.1**	mg/Kg-dry	1	7/26/04 6:07:11 PM	JMW
Lead	NELAP	4.00		**202**	mg/Kg-dry	1	7/24/04 7:31:31 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	7/24/04 7:31:31 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	7/24/04 7:31:31 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
1,2-Dichlorobenzene	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
1,3-Dichlorobenzene	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
1,4-Dichlorobenzene	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2,4,5-Trichlorophenol	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2,4,6-Trichlorophenol	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2,4-Dichlorophenol	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2,4-Dimethylphenol	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2,4-Dinitrophenol	NELAP	378		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2,4-Dinitrotoluene	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2,6-Dinitrotoluene	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2-Chloronaphthalene	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2-Chlorophenol	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2-Methylnaphthalene	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2-Nitroaniline	NELAP	378		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
2-Nitrophenol	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
3,3´-Dichlorobenzidine	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
3-Nitroaniline	NELAP	378		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
4,6-Dinitro-2-methylphenol	NELAP	378		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
4-Bromophenyl phenyl ether	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
4-Chloro-3-methylphenol	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
4-Chloroaniline	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
4-Chlorophenyl phenyl ether	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
4-Nitroaniline	NELAP	189		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-021
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-3 (2-3)
Collection Date: 7/13/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Acenaphthene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Acenaphthylene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Anthracene	NELAP	132	J	51	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Benzo(a)anthracene	NELAP	132	J	69	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Benzo(a)pyrene	NELAP	132	J	67	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Benzo(b)fluoranthene	NELAP	132	J	76	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Benzo(k)fluoranthene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Bis(2-chloroethyl)ether	NELAP	172		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Bis(2-chloroisopropyl)ether	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Butyl benzyl phthalate	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Carbazole		189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Chrysene	NELAP	132	J	62	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Di-n-butyl phthalate	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Di-n-octyl phthalate	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Dibenzofuran	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Diethyl phthalate	NELAP	189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Dimethyl phthalate		132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Fluoranthene	NELAP	132	J	120	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Fluorene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Hexachlorobenzene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Hexachlorobutadiene	NELAP	189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Hexachlorocyclopentadiene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Hexachloroethane	NELAP	189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Isophorone	NELAP	132		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
m,p-Cresol	NELAP	189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
N-Nitroso-di-n-propylamine	NELAP	189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
N-Nitrosodiphenylamine	NELAP	189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Naphthalene	NELAP	132	J	71	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Nitrobenzene	NELAP	189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
o-Cresol	NELAP	189		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Pentachlorophenol	NELAP	757		ND	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-021
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-3 (2-3)
Collection Date: 7/13/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	132	J	**130**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Phenol	NELAP	132		**ND**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Pyrene	NELAP	189	J	**110**	mg/Kg-dry	50	7/20/04 4:03:00 PM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**55.6**	%REC	50	7/20/04 4:03:00 PM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**81.7**	%REC	50	7/20/04 4:03:00 PM	DMH
Surr: 2-Fluorophenol		27-111		**52.4**	%REC	50	7/20/04 4:03:00 PM	DMH
Surr: Nitrobenzene-d5		28.9-113		**61.0**	%REC	50	7/20/04 4:03:00 PM	DMH
Surr: p-Terphenyl-d14		25-144		**73.0**	%REC	50	7/20/04 4:03:00 PM	DMH
Surr: Phenol-d5		33.7-123		**59.9**	%REC	50	7/20/04 4:03:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
1,1,2-Trichloroethane	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
1,1-Dichloroethane	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
1,1-Dichloroethene	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
1,2-Dichloroethane	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
1,2-Dichloropropane	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
2-Butanone	NELAP	8660		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
2-Hexanone	NELAP	8660		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
4-Methyl-2-pentanone	NELAP	8660		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Acetone	NELAP	8660		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Benzene	NELAP	173		**13900**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Bromodichloromethane	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Bromoform	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Bromomethane	NELAP	1730		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Carbon disulfide	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Carbon tetrachloride	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Chlorobenzene	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Chloroethane	NELAP	1730		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Chloroform	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Chloromethane	NELAP	1730		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	693		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Dibromochloromethane	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Ethylbenzene	NELAP	866		**4240**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Methyl tert-butyl ether	NELAP	347		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Methylene chloride	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-021
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-3 (2-3)
Collection Date: 7/13/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Tetrachloroethene	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Toluene	NELAP	866		**6280**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	693		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Trichloroethene	NELAP	866		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Vinyl chloride	NELAP	347		**ND**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Xylenes, Total	NELAP	866		**9920**	µg/Kg-dry	50	7/18/04 9:01:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**97.3**	%REC	50	7/18/04 9:01:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.6**	%REC	50	7/18/04 9:01:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**92.7**	%REC	50	7/18/04 9:01:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**99.2**	%REC	50	7/18/04 9:01:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.167**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		12		**ND**	mg/Kg-dry	1	7/23/04 4:58:00 PM	SML
SW-846 9010, 9014								
Cyanide	NELAP	0.61		**11.7**	mg/kg-dry	1	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.68**		1	7/19/04 11:25:00 AM	EAW

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-3D (2-3)
Collection Date: 7/13/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**47.8**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**52.2**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**2.68**	mg/Kg-dry	1	7/27/04 11:06:41 AM	JMW
Barium	NELAP	0.48		**41.3**	mg/Kg-dry	1	7/24/04 7:46:49 PM	SAM
Cadmium	NELAP	0.19		**0.23**	mg/Kg-dry	1	7/24/04 7:46:49 PM	SAM
Chromium	NELAP	0.96		**17.2**	mg/Kg-dry	1	7/26/04 6:10:11 PM	JMW
Lead	NELAP	3.85		**67.6**	mg/Kg-dry	1	7/24/04 7:46:49 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/24/04 7:46:49 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/24/04 7:46:49 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
1,2-Dichlorobenzene	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
1,3-Dichlorobenzene	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
1,4-Dichlorobenzene	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2,4,5-Trichlorophenol	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2,4,6-Trichlorophenol	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2,4-Dichlorophenol	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2,4-Dimethylphenol	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2,4-Dinitrophenol	NELAP	582		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2,4-Dinitrotoluene	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2,6-Dinitrotoluene	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2-Chloronaphthalene	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2-Chlorophenol	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2-Methylnaphthalene	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2-Nitroaniline	NELAP	582		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
2-Nitrophenol	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
3,3'-Dichlorobenzidine	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
3-Nitroaniline	NELAP	582		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
4,6-Dinitro-2-methylphenol	NELAP	582		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
4-Bromophenyl phenyl ether	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
4-Chloro-3-methylphenol	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
4-Chloroaniline	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
4-Chlorophenyl phenyl ether	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
4-Nitroaniline	NELAP	291		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-3D (2-3)
Collection Date: 7/13/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Acenaphthene	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Acenaphthylene	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Anthracene	NELAP	204	J	110	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Benzo(a)anthracene	NELAP	204	J	140	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Benzo(a)pyrene	NELAP	204	J	140	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Benzo(b)fluoranthene	NELAP	204	J	170	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Benzo(k)fluoranthene	NELAP	204	J	69	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Bis(2-chloroethyl)ether	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Bis(2-chloroisopropyl)ether	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Butyl benzyl phthalate	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Carbazole		291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Chrysene	NELAP	204	J	140	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Di-n-butyl phthalate	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Di-n-octyl phthalate	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Dibenzofuran	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Diethyl phthalate	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Dimethyl phthalate		204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Fluoranthene	NELAP	204		241	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Fluorene	NELAP	204	J	76	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Hexachlorobenzene	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Hexachlorobutadiene	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Hexachlorocyclopentadiene	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Hexachloroethane	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Isophorone	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
m,p-Cresol	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
N-Nitroso-di-n-propylamine	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
N-Nitrosodiphenylamine	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Naphthalene	NELAP	204		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Nitrobenzene	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
o-Cresol	NELAP	291		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Pentachlorophenol	NELAP	1160		ND	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-3D (2-3)
Collection Date: 7/13/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	204		**249**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Phenol	NELAP	204		**ND**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Pyrene	NELAP	291	J	**210**	mg/Kg-dry	50	7/20/04 4:42:00 PM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**56.1**	%REC	50	7/20/04 4:42:00 PM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**69.1**	%REC	50	7/20/04 4:42:00 PM	DMH
Surr: 2-Fluorophenol		27-111		**70.0**	%REC	50	7/20/04 4:42:00 PM	DMH
Surr: Nitrobenzene-d5		28.9-113		**62.9**	%REC	50	7/20/04 4:42:00 PM	DMH
Surr: p-Terphenyl-d14		25-144		**68.0**	%REC	50	7/20/04 4:42:00 PM	DMH
Surr: Phenol-d5		33.7-123		**75.7**	%REC	50	7/20/04 4:42:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
1,1,2-Trichloroethane	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
1,1-Dichloroethane	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
1,1-Dichloroethene	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
1,2-Dichloroethane	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
1,2-Dichloropropane	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
2-Butanone	NELAP	11700		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
2-Hexanone	NELAP	11700		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
4-Methyl-2-pentanone	NELAP	11700		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Acetone	NELAP	11700		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Benzene	NELAP	233		**11100**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Bromodichloromethane	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Bromoform	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Bromomethane	NELAP	2330		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Carbon disulfide	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Carbon tetrachloride	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Chlorobenzene	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Chloroethane	NELAP	2330		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Chloroform	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Chloromethane	NELAP	2330		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	932		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Dibromochloromethane	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Ethylbenzene	NELAP	1170		**4030**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Methyl tert-butyl ether	NELAP	466		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Methylene chloride	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-3D (2-3)
Collection Date: 7/13/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Tetrachloroethene	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Toluene	NELAP	1170		**5670**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	932		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Trichloroethene	NELAP	1170		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Vinyl chloride	NELAP	466		**ND**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Xylenes, Total	NELAP	1170		**8750**	µg/Kg-dry	50	7/18/04 9:33:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**99.1**	%REC	50	7/18/04 9:33:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**97.4**	%REC	50	7/18/04 9:33:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**94.0**	%REC	50	7/18/04 9:33:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	50	7/18/04 9:33:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.019		**0.172**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		19		**ND**	mg/Kg-dry	1	7/23/04 5:14:00 PM	SML
SW-846 9010, 9014								
Cyanide	NELAP	4.68		**63.3**	mg/kg-dry	5	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.56**		1	7/19/04 11:26:00 AM	EAW

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-10 (9-10)
Collection Date: 7/13/04 1:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**25.6**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**74.4**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.298		**1.58**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Acenaphthylene	NELAP	0.298		**0.316**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Anthracene	NELAP	0.298		**1.38**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Benzo(a)anthracene	NELAP	0.298		**0.630**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Benzo(a)pyrene	NELAP	0.298		**0.515**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.298		**0.633**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.298	J	**0.11**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.298	J	**0.24**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Chrysene	NELAP	0.298		**0.651**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.298	J	**0.045**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Fluoranthene	NELAP	0.298		**1.85**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Fluorene	NELAP	0.298		**1.23**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.298	J	**0.13**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Naphthalene	NELAP	4.01		**16.0**	mg/Kg-dry	10	7/18/04 2:34:00 PM	DMH
Phenanthrene	NELAP	0.298		**3.48**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Pyrene	NELAP	0.298		**1.52**	mg/Kg-dry	1	7/16/04 10:35:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**75.5**	%REC	1	7/16/04 10:35:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**63.1**	%REC	1	7/16/04 10:35:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**69.5**	%REC	1	7/16/04 10:35:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	59.6		**534**	µg/Kg-dry	25	7/22/04 8:47:00 PM	HLR
Toluene	NELAP	298		**300**	µg/Kg-dry	25	7/22/04 8:47:00 PM	HLR
Ethylbenzene	NELAP	298		**523**	µg/Kg-dry	25	7/22/04 8:47:00 PM	HLR
Xylenes, Total	NELAP	298		**837**	µg/Kg-dry	25	7/22/04 8:47:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**102**	%REC	25	7/22/04 8:47:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.0**	%REC	25	7/22/04 8:47:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**96.3**	%REC	25	7/22/04 8:47:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**102**	%REC	25	7/22/04 8:47:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-024
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-11 (10-11)
Collection Date: 7/13/04 1:40:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**26.6**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**73.4**	%	1	7/16/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	6.78		**222 #**	mg/Kg-dry	1	7/23/04 11:12:00 AM	DMH
Kerosene	NELAP	6.78		**ND**	mg/Kg-dry	1	7/23/04 11:12:00 AM	DMH
Mineral Spirits	NELAP	6.78		**ND**	mg/Kg-dry	1	7/23/04 11:12:00 AM	DMH
Motor Oil	NELAP	6.78		**87 #**	mg/Kg-dry	1	7/23/04 11:12:00 AM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**97.8**	%REC	1	7/23/04 11:12:00 AM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Acenaphthylene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Anthracene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Benzo(a)anthracene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Benzo(a)pyrene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Chrysene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Fluoranthene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Fluorene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Naphthalene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Phenanthrene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Pyrene	NELAP	0.421		**ND**	mg/Kg-dry	1	7/18/04 4:35:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**56.3**	%REC	1	7/18/04 4:35:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**59.0**	%REC	1	7/18/04 4:35:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**78.1**	%REC	1	7/18/04 4:35:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	31.5		**223**	µg/Kg-dry	12.5	7/23/04 9:52:00 AM	HLR
Toluene	NELAP	157	J	**120**	µg/Kg-dry	12.5	7/23/04 9:52:00 AM	HLR
Ethylbenzene	NELAP	157		**372**	µg/Kg-dry	12.5	7/23/04 9:52:00 AM	HLR
Xylenes, Total	NELAP	157		**458**	µg/Kg-dry	12.5	7/23/04 9:52:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**92.4**	%REC	12.5	7/23/04 9:52:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**91.1**	%REC	12.5	7/23/04 9:52:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-024
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-11 (10-11)
Collection Date: 7/13/04 1:40:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**93.0**	%REC	12.5	7/23/04 9:52:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	12.5	7/23/04 9:52:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-025
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B503-19 (18-19)
Collection Date: 7/13/04 1:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**11.8**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**88.2**	%	1	7/16/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	3.25		**5.43**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Acenaphthylene	NELAP	3.25		**46.9**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Anthracene	NELAP	3.25		**12.4**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Benzo(a)anthracene	NELAP	3.25		**31.3**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Benzo(a)pyrene	NELAP	16.2		**81.5**	mg/Kg-dry	50	7/26/04 1:59:00 AM	DMH
Benzo(b)fluoranthene	NELAP	16.2		**88.1**	mg/Kg-dry	50	7/26/04 1:59:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	16.2		**23.0**	mg/Kg-dry	50	7/26/04 1:59:00 AM	DMH
Benzo(k)fluoranthene	NELAP	16.2		**25.0**	mg/Kg-dry	50	7/26/04 1:59:00 AM	DMH
Chrysene	NELAP	3.25		**34.5**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	16.2	J	**5.8**	mg/Kg-dry	50	7/26/04 1:59:00 AM	DMH
Fluoranthene	NELAP	3.25		**37.4**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Fluorene	NELAP	3.25		**13.3**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	16.2		**21.4**	mg/Kg-dry	50	7/26/04 1:59:00 AM	DMH
Naphthalene	NELAP	3.25		**7.71**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Phenanthrene	NELAP	3.25		**17.9**	mg/Kg-dry	10	7/21/04 1:09:00 PM	DMH
Pyrene	NELAP	16.2		**59.8**	mg/Kg-dry	50	7/26/04 1:59:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**51.9**	%REC	10	7/21/04 1:09:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**35.9**	%REC	10	7/21/04 1:09:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**65.7**	%REC	10	7/21/04 1:09:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	106		**3000**	µg/Kg-dry	50	7/23/04 10:23:00 AM	HLR
Toluene	NELAP	528		**835**	µg/Kg-dry	50	7/23/04 10:23:00 AM	HLR
Ethylbenzene	NELAP	528		**ND**	µg/Kg-dry	50	7/23/04 10:23:00 AM	HLR
Xylenes, Total	NELAP	528		**ND**	µg/Kg-dry	50	7/23/04 10:23:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**106**	%REC	50	7/23/04 10:23:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.3**	%REC	50	7/23/04 10:23:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**98.9**	%REC	50	7/23/04 10:23:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**102**	%REC	50	7/23/04 10:23:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070377	**Client Sample ID:**	B504-3 (2-3)
Lab ID:	04070377-026	**Collection Date:**	7/13/04 2:50:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**26.0**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**74.0**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		**15.4**	mg/Kg-dry	1	7/27/04 10:34:08 AM	JMW
Barium	NELAP	0.49		**152**	mg/Kg-dry	1	7/24/04 7:51:53 PM	SAM
Cadmium	NELAP	0.20		**1.68**	mg/Kg-dry	1	7/24/04 7:51:53 PM	SAM
Chromium	NELAP	0.98		**13.6**	mg/Kg-dry	1	7/26/04 6:19:08 PM	JMW
Lead	NELAP	3.92		**221**	mg/Kg-dry	1	7/24/04 7:51:53 PM	SAM
Selenium	NELAP	3.92		**< 3.92**	mg/Kg-dry	1	7/24/04 7:51:53 PM	SAM
Silver	NELAP	0.98		**< 0.98**	mg/Kg-dry	1	7/24/04 7:51:53 PM	SAM
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	663		**6720 #**	mg/Kg-dry	5	7/23/04 11:41:00 AM	DMH
Kerosene	NELAP	663		**ND**	mg/Kg-dry	5	7/23/04 11:41:00 AM	DMH
Mineral Spirits	NELAP	663		**ND**	mg/Kg-dry	5	7/23/04 11:41:00 AM	DMH
Motor Oil	NELAP	663		**13200 #**	mg/Kg-dry	5	7/23/04 11:41:00 AM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	5	7/23/04 11:41:00 AM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.131		**0.613**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Acenaphthylene	NELAP	0.131		**0.152**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Anthracene	NELAP	0.131		**0.458**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Benzo(a)anthracene	NELAP	0.131		**0.251**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Benzo(a)pyrene	NELAP	0.131		**0.193**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.131		**0.210**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.131	J	**0.064**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.131	J	**0.086**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Chrysene	NELAP	0.131		**0.242**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.131	J	**0.025**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Fluoranthene	NELAP	0.131		**0.678**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Fluorene	NELAP	0.131		**0.428**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.131	J	**0.081**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Naphthalene	NELAP	1.31		**6.79**	mg/Kg-dry	10	7/21/04 4:13:00 AM	DMH
Phenanthrene	NELAP	0.131		**1.14**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Pyrene	NELAP	0.131		**0.524**	mg/Kg-dry	1	7/18/04 3:13:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**88.1**	%REC	1	7/18/04 3:13:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**74.9**	%REC	1	7/18/04 3:13:00 PM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-026
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-3 (2-3)
Collection Date: 7/13/04 2:50:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: p-Terphenyl-d14		10-130		**83.6**	%REC	1	7/18/04 3:13:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.7		**87.7**	µg/Kg-dry	1	7/23/04 9:20:00 AM	HLR
Toluene	NELAP	8.6		**38.3**	µg/Kg-dry	1	7/23/04 9:20:00 AM	HLR
Ethylbenzene	NELAP	8.6		**32.1**	µg/Kg-dry	1	7/23/04 9:20:00 AM	HLR
Xylenes, Total	NELAP	8.6		**65.3**	µg/Kg-dry	1	7/23/04 9:20:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**128**	%REC	1	7/23/04 9:20:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**64.1**	%REC	1	7/23/04 9:20:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**127**	%REC	1	7/23/04 9:20:00 AM	HLR
Surr: Toluene-d8		82.8-112.8	S	**75.1**	%REC	1	7/23/04 9:20:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		**0.338**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	3.16		**55.5**	mg/kg-dry	5	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.61**		1	7/16/04 10:46:00 AM	EAW

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-027
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-7 (6-7)
Collection Date: 7/13/04 3:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		29.9	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		70.1	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.31		< 2.31	mg/Kg-dry	1	7/27/04 11:11:28 AM	JMW
Barium	NELAP	0.46		63.8	mg/Kg-dry	1	7/24/04 7:57:10 PM	SAM
Cadmium	NELAP	0.19		0.31	mg/Kg-dry	1	7/24/04 7:57:10 PM	SAM
Chromium	NELAP	0.93		14.7	mg/Kg-dry	1	7/26/04 6:22:08 PM	JMW
Lead	NELAP	3.70		16.4	mg/Kg-dry	1	7/24/04 7:57:10 PM	SAM
Selenium	NELAP	3.70		< 3.70	mg/Kg-dry	1	7/24/04 7:57:10 PM	SAM
Silver	NELAP	0.93		< 0.93	mg/Kg-dry	1	7/24/04 7:57:10 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
1,2-Dichlorobenzene	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
1,3-Dichlorobenzene	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
1,4-Dichlorobenzene	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2,4,5-Trichlorophenol	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2,4,6-Trichlorophenol	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2,4-Dichlorophenol	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2,4-Dimethylphenol	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2,4-Dinitrophenol	NELAP	456		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2,4-Dinitrotoluene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2,6-Dinitrotoluene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2-Chloronaphthalene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2-Chlorophenol	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2-Methylnaphthalene	NELAP	160		1180	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2-Nitroaniline	NELAP	456		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
2-Nitrophenol	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
3,3'-Dichlorobenzidine	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
3-Nitroaniline	NELAP	456		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
4,6-Dinitro-2-methylphenol	NELAP	456		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
4-Bromophenyl phenyl ether	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
4-Chloro-3-methylphenol	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
4-Chloroaniline	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
4-Chlorophenyl phenyl ether	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
4-Nitroaniline	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-027
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-7 (6-7)
Collection Date: 7/13/04 3:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Acenaphthene	NELAP	160		594	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Acenaphthylene	NELAP	160	J	71	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Anthracene	NELAP	160		303	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Benzo(a)anthracene	NELAP	160		169	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Benzo(a)pyrene	NELAP	160	J	130	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Benzo(b)fluoranthene	NELAP	160	J	110	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Benzo(k)fluoranthene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Bis(2-chloroethyl)ether	NELAP	208		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Bis(2-chloroisopropyl)ether	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Butyl benzyl phthalate	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Carbazole		228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Chrysene	NELAP	160	J	150	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Di-n-butyl phthalate	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Di-n-octyl phthalate	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Dibenzofuran	NELAP	160	J	69	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Diethyl phthalate	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Dimethyl phthalate		160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Fluoranthene	NELAP	160		317	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Fluorene	NELAP	160		406	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Hexachlorobenzene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Hexachlorobutadiene	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Hexachlorocyclopentadiene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Hexachloroethane	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Isophorone	NELAP	160		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
m,p-Cresol	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
N-Nitroso-di-n-propylamine	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
N-Nitrosodiphenylamine	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Naphthalene	NELAP	160		2000	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Nitrobenzene	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
o-Cresol	NELAP	228		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Pentachlorophenol	NELAP	912		ND	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-027
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-7 (6-7)
Collection Date: 7/13/04 3:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	160		**1120**	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Phenol	NELAP	160		**ND**	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Pyrene	NELAP	228		**436**	mg/Kg-dry	50	7/20/04 2:04:00 PM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**45.4**	%REC	50	7/20/04 2:04:00 PM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**73.0**	%REC	50	7/20/04 2:04:00 PM	DMH
Surr: 2-Fluorophenol		27-111		**55.9**	%REC	50	7/20/04 2:04:00 PM	DMH
Surr: Nitrobenzene-d5		28.9-113		**74.3**	%REC	50	7/20/04 2:04:00 PM	DMH
Surr: p-Terphenyl-d14		25-144		**67.8**	%REC	50	7/20/04 2:04:00 PM	DMH
Surr: Phenol-d5		33.7-123		**65.1**	%REC	50	7/20/04 2:04:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
1,1,2-Trichloroethane	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
1,1-Dichloroethane	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
1,1-Dichloroethene	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
1,2-Dichloroethane	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
1,2-Dichloropropane	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
2-Butanone	NELAP	44100		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
2-Hexanone	NELAP	44100		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
4-Methyl-2-pentanone	NELAP	44100		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Acetone	NELAP	44100		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Benzene	NELAP	883		**20800**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Bromodichloromethane	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Bromoform	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Bromomethane	NELAP	8830		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Carbon disulfide	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Carbon tetrachloride	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Chlorobenzene	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Chloroethane	NELAP	8830		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Chloroform	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Chloromethane	NELAP	8830		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	3530		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Dibromochloromethane	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Ethylbenzene	NELAP	4410		**145000**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Methyl tert-butyl ether	NELAP	1770		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Methylene chloride	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-027
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-7 (6-7)
Collection Date: 7/13/04 3:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Tetrachloroethene	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Toluene	NELAP	4410		**10900**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	3530		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Trichloroethene	NELAP	4410		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Vinyl chloride	NELAP	1770		**ND**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Xylenes, Total	NELAP	4410		**140000**	µg/Kg-dry	250	7/18/04 10:04:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**99.8**	%REC	250	7/18/04 10:04:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.6**	%REC	250	7/18/04 10:04:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**94.3**	%REC	250	7/18/04 10:04:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	250	7/18/04 10:04:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		**0.026**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		14		**ND**	mg/Kg-dry	1	7/23/04 5:30:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.74**		1	7/16/04 10:47:00 AM	EAW

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-028
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-7D (6-7)
Collection Date: 7/13/04 3:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**28.7**	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**71.3**	%	1	7/16/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.31		**5.86**	mg/Kg-dry	1	7/27/04 10:38:09 AM	JMW
Barium	NELAP	0.46		**60.6**	mg/Kg-dry	1	7/24/04 8:02:28 PM	SAM
Cadmium	NELAP	0.19		**0.38**	mg/Kg-dry	1	7/24/04 8:02:28 PM	SAM
Chromium	NELAP	0.93		**11.7**	mg/Kg-dry	1	7/26/04 6:25:15 PM	JMW
Lead	NELAP	3.70		**22.0**	mg/Kg-dry	1	7/24/04 8:02:28 PM	SAM
Selenium	NELAP	3.70		**< 3.70**	mg/Kg-dry	1	7/24/04 8:02:28 PM	SAM
Silver	NELAP	0.93		**< 0.93**	mg/Kg-dry	1	7/24/04 8:02:28 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
1,2-Dichlorobenzene	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
1,3-Dichlorobenzene	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
1,4-Dichlorobenzene	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2,4,5-Trichlorophenol	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2,4,6-Trichlorophenol	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2,4-Dichlorophenol	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2,4-Dimethylphenol	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2,4-Dinitrophenol	NELAP	462		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2,4-Dinitrotoluene	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2,6-Dinitrotoluene	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2-Chloronaphthalene	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2-Chlorophenol	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2-Methylnaphthalene	NELAP	162		**1280**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2-Nitroaniline	NELAP	462		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
2-Nitrophenol	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
3,3'-Dichlorobenzidine	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
3-Nitroaniline	NELAP	462		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
4,6-Dinitro-2-methylphenol	NELAP	462		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
4-Bromophenyl phenyl ether	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
4-Chloro-3-methylphenol	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
4-Chloroaniline	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
4-Chlorophenyl phenyl ether	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
4-Nitroaniline	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-028
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-7D (6-7)
Collection Date: 7/13/04 3:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Acenaphthene	NELAP	162		**626**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Acenaphthylene	NELAP	162	J	**72**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Anthracene	NELAP	162		**317**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Benzo(a)anthracene	NELAP	162		**170**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Benzo(a)pyrene	NELAP	162	J	**140**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Benzo(b)fluoranthene	NELAP	162	J	**110**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Benzo(k)fluoranthene	NELAP	162	J	**44**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Bis(2-chloroethyl)ether	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Bis(2-chloroisopropyl)ether	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Butyl benzyl phthalate	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Carbazole		231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Chrysene	NELAP	162	J	**150**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Di-n-butyl phthalate	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Di-n-octyl phthalate	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Dibenzofuran	NELAP	162	J	**70**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Diethyl phthalate	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Dimethyl phthalate		162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Fluoranthene	NELAP	162		**324**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Fluorene	NELAP	162		**428**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Hexachlorobenzene	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Hexachlorobutadiene	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Hexachlorocyclopentadiene	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Hexachloroethane	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Isophorone	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
m,p-Cresol	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
N-Nitroso-di-n-propylamine	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
N-Nitrosodiphenylamine	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Naphthalene	NELAP	162		**2150**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Nitrobenzene	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
o-Cresol	NELAP	231		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Pentachlorophenol	NELAP	925		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-028
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-7D (6-7)
Collection Date: 7/13/04 3:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	162		**1150**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Phenol	NELAP	162		**ND**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Pyrene	NELAP	231		**444**	mg/Kg-dry	50	7/20/04 2:44:00 PM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**51.0**	%REC	50	7/20/04 2:44:00 PM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**77.9**	%REC	50	7/20/04 2:44:00 PM	DMH
Surr: 2-Fluorophenol		27-111		**59.1**	%REC	50	7/20/04 2:44:00 PM	DMH
Surr: Nitrobenzene-d5		28.9-113		**66.9**	%REC	50	7/20/04 2:44:00 PM	DMH
Surr: p-Terphenyl-d14		25-144		**68.2**	%REC	50	7/20/04 2:44:00 PM	DMH
Surr: Phenol-d5		33.7-123		**69.2**	%REC	50	7/20/04 2:44:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
1,1,2-Trichloroethane	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
1,1-Dichloroethane	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
1,1-Dichloroethene	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
1,2-Dichloroethane	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
1,2-Dichloropropane	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
2-Butanone	NELAP	49100		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
2-Hexanone	NELAP	49100		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
4-Methyl-2-pentanone	NELAP	49100		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Acetone	NELAP	49100		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Benzene	NELAP	982		**26300**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Bromodichloromethane	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Bromoform	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Bromomethane	NELAP	9820		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Carbon disulfide	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Carbon tetrachloride	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Chlorobenzene	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Chloroethane	NELAP	9820		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Chloroform	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Chloromethane	NELAP	9820		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	3930		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Dibromochloromethane	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Ethylbenzene	NELAP	4910		**203000**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Methyl tert-butyl ether	NELAP	1960		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Methylene chloride	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-028
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-7D (6-7)
Collection Date: 7/13/04 3:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Tetrachloroethene	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Toluene	NELAP	4910		**14800**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	3930		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Trichloroethene	NELAP	4910		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Vinyl chloride	NELAP	1960		**ND**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Xylenes, Total	NELAP	4910		**196000**	µg/Kg-dry	250	7/20/04 2:54:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**110**	%REC	250	7/20/04 2:54:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.1**	%REC	250	7/20/04 2:54:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**102**	%REC	250	7/20/04 2:54:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**102**	%REC	250	7/20/04 2:54:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.014		**0.048**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		14		**ND**	mg/Kg-dry	1	7/23/04 5:46:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.52**		1	7/16/04 10:51:00 AM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-029
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-14 (13-14)
Collection Date: 7/13/04 4:20:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**12.2**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**87.8**	%	1	7/19/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	11.4		**48.7**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Acenaphthylene	NELAP	11.4		**19.8**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Anthracene	NELAP	11.4		**33.5**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Benzo(a)anthracene	NELAP	11.4		**16.6**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Benzo(a)pyrene	NELAP	11.4		**15.8**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Benzo(b)fluoranthene	NELAP	11.4		**11.9**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	11.4	J	**4.9**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Benzo(k)fluoranthene	NELAP	11.4	J	**4.0**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Chrysene	NELAP	11.4		**16.2**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	11.4	J	**1.4**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Fluoranthene	NELAP	11.4		**36.3**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Fluorene	NELAP	11.4		**47.9**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	11.4	J	**4.7**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Naphthalene	NELAP	114		**231**	mg/Kg-dry	100	7/23/04 1:28:00 PM	DMH
Phenanthrene	NELAP	11.4		**115**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Pyrene	NELAP	11.4		**54.0**	mg/Kg-dry	10	7/19/04 12:13:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**120**	%REC	10	7/19/04 12:13:00 AM	DMH
Surr: Nitrobenzene-d5		10-130	S	**0**	%REC	10	7/19/04 12:13:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**130**	%REC	10	7/19/04 12:13:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	158		**15100**	µg/Kg-dry	100	7/22/04 10:53:00 PM	HLR
Toluene	NELAP	790		**8240**	µg/Kg-dry	100	7/22/04 10:53:00 PM	HLR
Ethylbenzene	NELAP	790		**28500**	µg/Kg-dry	100	7/22/04 10:53:00 PM	HLR
Xylenes, Total	NELAP	790		**24000**	µg/Kg-dry	100	7/22/04 10:53:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**91.9**	%REC	100	7/22/04 10:53:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**92.2**	%REC	100	7/22/04 10:53:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**91.6**	%REC	100	7/22/04 10:53:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**99.9**	%REC	100	7/22/04 10:53:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-030
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-21 (20-21)
Collection Date: 7/14/04 9:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.0**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**91.0**	%	1	7/19/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	539		**8550 #**	mg/Kg-dry	100	7/23/04 12:10:00 PM	DMH
Kerosene	NELAP	539		**ND**	mg/Kg-dry	100	7/23/04 12:10:00 PM	DMH
Mineral Spirits	NELAP	539		**ND**	mg/Kg-dry	100	7/23/04 12:10:00 PM	DMH
Motor Oil	NELAP	539		**2490 #**	mg/Kg-dry	100	7/23/04 12:10:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	100	7/23/04 12:10:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	10.2		**21.5**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Acenaphthylene	NELAP	10.2		**148**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Anthracene	NELAP	10.2		**107**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Benzo(a)anthracene	NELAP	10.2		**58.8**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Benzo(a)pyrene	NELAP	10.2		**66.5**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Benzo(b)fluoranthene	NELAP	10.2		**50.4**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	10.2		**15.2**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Benzo(k)fluoranthene	NELAP	10.2		**15.7**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Chrysene	NELAP	10.2		**62.3**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	10.2	J	**4.6**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Fluoranthene	NELAP	10.2		**122**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Fluorene	NELAP	10.2		**123**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	10.2		**15.0**	mg/Kg-dry	10	7/19/04 2:10:00 AM	DMH
Naphthalene	NELAP	102		**332**	mg/Kg-dry	100	7/21/04 2:54:00 AM	DMH
Phenanthrene	NELAP	102		**320**	mg/Kg-dry	100	7/21/04 2:54:00 AM	DMH
Pyrene	NELAP	102		**192**	mg/Kg-dry	100	7/21/04 2:54:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130	S	**150**	%REC	10	7/19/04 2:10:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**39.9**	%REC	10	7/19/04 2:10:00 AM	DMH
Surr: p-Terphenyl-d14		10-130	S	**140**	%REC	10	7/19/04 2:10:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	376		**33100**	µg/Kg-dry	250	7/23/04 3:35:00 AM	HLR
Toluene	NELAP	1880		**8760**	µg/Kg-dry	250	7/23/04 3:35:00 AM	HLR
Ethylbenzene	NELAP	1880	J	**1100**	µg/Kg-dry	250	7/23/04 3:35:00 AM	HLR
Xylenes, Total	NELAP	1880		**3460**	µg/Kg-dry	250	7/23/04 3:35:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**96.8**	%REC	250	7/23/04 3:35:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**90.4**	%REC	250	7/23/04 3:35:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-030
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-21 (20-21)
Collection Date: 7/14/04 9:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**98.4**	%REC	250	7/23/04 3:35:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**102**	%REC	250	7/23/04 3:35:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-031
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B504-28 (27-28)
Collection Date: 7/14/04 9:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**8.5**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**91.5**	%	1	7/19/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.111	J	**0.013**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Acenaphthylene	NELAP	0.111	J	**0.014**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Anthracene	NELAP	0.111	J	**0.022**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Benzo(a)anthracene	NELAP	0.111	J	**0.019**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Benzo(a)pyrene	NELAP	0.111	J	**0.019**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.111	J	**0.015**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Chrysene	NELAP	0.111	J	**0.021**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Fluoranthene	NELAP	0.111	J	**0.033**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Fluorene	NELAP	0.111	J	**0.022**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Naphthalene	NELAP	0.111		**0.155**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Phenanthrene	NELAP	0.111	J	**0.072**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Pyrene	NELAP	0.111	J	**0.051**	mg/Kg-dry	1	7/18/04 10:16:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**94.6**	%REC	1	7/18/04 10:16:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**82.8**	%REC	1	7/18/04 10:16:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**101**	%REC	1	7/18/04 10:16:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.7		**9.1**	µg/Kg-dry	1	7/23/04 4:07:00 AM	HLR
Toluene	NELAP	3.7		**3.7**	µg/Kg-dry	1	7/23/04 4:07:00 AM	HLR
Ethylbenzene	NELAP	3.7	J	**2.0**	µg/Kg-dry	1	7/23/04 4:07:00 AM	HLR
Xylenes, Total	NELAP	3.7	J	**3.4**	µg/Kg-dry	1	7/23/04 4:07:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**111**	%REC	1	7/23/04 4:07:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**70.8**	%REC	1	7/23/04 4:07:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**106**	%REC	1	7/23/04 4:07:00 AM	HLR
Surr: Toluene-d8		82.8-112.8	S	**82.7**	%REC	1	7/23/04 4:07:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-032
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-3 (2-3)
Collection Date: 7/14/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**15.2**	%	1	7/20/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**84.8**	%	1	7/20/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**4.50**	mg/Kg-dry	1	7/27/04 10:40:06 AM	JMW
Barium	NELAP	0.50		**27.1**	mg/Kg-dry	1	7/24/04 8:07:47 PM	SAM
Cadmium	NELAP	0.20		**0.58**	mg/Kg-dry	1	7/24/04 8:07:47 PM	SAM
Chromium	NELAP	1.00		**12.6**	mg/Kg-dry	1	7/26/04 6:28:14 PM	JMW
Lead	NELAP	4.00		**552**	mg/Kg-dry	1	7/24/04 8:07:47 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	7/24/04 8:07:47 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	7/24/04 8:07:47 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	34.9	J	**6.9**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Acenaphthylene	NELAP	34.9		**70.0**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Anthracene	NELAP	34.9	J	**15**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Benzo(a)anthracene	NELAP	34.9		**44.9**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Benzo(a)pyrene	NELAP	34.9		**137**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Benzo(b)fluoranthene	NELAP	34.9		**123**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	34.9		**38.4**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Benzo(k)fluoranthene	NELAP	34.9	J	**33**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Chrysene	NELAP	34.9		**46.8**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	34.9	J	**13**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Fluoranthene	NELAP	34.9		**37.2**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Fluorene	NELAP	34.9	J	**9.9**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	34.9		**41.2**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Naphthalene	NELAP	34.9	J	**21**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Phenanthrene	NELAP	34.9	J	**18**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Pyrene	NELAP	34.9		**96.2**	mg/Kg-dry	10	7/19/04 2:49:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**109**	%REC	10	7/19/04 2:49:00 AM	DMH
Surr: Nitrobenzene-d5		10-130	S	**0**	%REC	10	7/19/04 2:49:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**120**	%REC	10	7/19/04 2:49:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.2		**47.7**	µg/Kg-dry	1	7/23/04 4:38:00 AM	HLR
Toluene	NELAP	6.1		**31.3**	µg/Kg-dry	1	7/23/04 4:38:00 AM	HLR
Ethylbenzene	NELAP	6.1		**149**	µg/Kg-dry	1	7/23/04 4:38:00 AM	HLR
Xylenes, Total	NELAP	6.1		**139**	µg/Kg-dry	1	7/23/04 4:38:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-032
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-3 (2-3)
Collection Date: 7/14/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**136**	%REC	1	7/23/04 4:38:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**66.9**	%REC	1	7/23/04 4:38:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**129**	%REC	1	7/23/04 4:38:00 AM	HLR
Surr: Toluene-d8		82.8-112.8	S	**81.3**	%REC	1	7/23/04 4:38:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.061**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	2.78		**25.2**	mg/kg-dry	5	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.75**		1	7/19/04 11:27:00 AM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-033
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-6 (5-6)
Collection Date: 7/14/04 10:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**25.0**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**75.0**	%	1	7/19/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	993		**25600 #**	mg/Kg-dry	50	7/23/04 12:39:00 PM	DMH
Kerosene	NELAP	993		**ND**	mg/Kg-dry	50	7/23/04 12:39:00 PM	DMH
Mineral Spirits	NELAP	993		**ND**	mg/Kg-dry	50	7/23/04 12:39:00 PM	DMH
Motor Oil	NELAP	993		**5510 #**	mg/Kg-dry	50	7/23/04 12:39:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	50	7/23/04 12:39:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	36.9		**540**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Acenaphthylene	NELAP	36.9		**81.4**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Anthracene	NELAP	36.9		**279**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Benzo(a)anthracene	NELAP	36.9		**137**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Benzo(a)pyrene	NELAP	36.9		**141**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Benzo(b)fluoranthene	NELAP	36.9		**130**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	36.9	J	**31**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Benzo(k)fluoranthene	NELAP	36.9		**45.1**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Chrysene	NELAP	36.9		**143**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	36.9	J	**10**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Fluoranthene	NELAP	36.9		**294**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Fluorene	NELAP	36.9		**404**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	36.9	J	**35**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Naphthalene	NELAP	369		**2340**	mg/Kg-dry	100	7/21/04 3:33:00 AM	DMH
Phenanthrene	NELAP	369		**923**	mg/Kg-dry	100	7/21/04 3:33:00 AM	DMH
Pyrene	NELAP	36.9		**405**	mg/Kg-dry	10	7/19/04 3:28:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130	S	**180**	%REC	10	7/19/04 3:28:00 AM	DMH
Surr: Nitrobenzene-d5		10-130	S	**160**	%REC	10	7/19/04 3:28:00 AM	DMH
Surr: p-Terphenyl-d14		10-130	S	**130**	%REC	10	7/19/04 3:28:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1250		**14500**	µg/Kg-dry	500	7/23/04 5:09:00 AM	HLR
Toluene	NELAP	6250	J	**3800**	µg/Kg-dry	500	7/23/04 5:09:00 AM	HLR
Ethylbenzene	NELAP	6250		**79800**	µg/Kg-dry	500	7/23/04 5:09:00 AM	HLR
Xylenes, Total	NELAP	6250		**69900**	µg/Kg-dry	500	7/23/04 5:09:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**113**	%REC	500	7/23/04 5:09:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.0**	%REC	500	7/23/04 5:09:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-033
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-6 (5-6)
Collection Date: 7/14/04 10:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**102**	%REC	500	7/23/04 5:09:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.7**	%REC	500	7/23/04 5:09:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-034
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-11 (10-11)
Collection Date: 7/14/04 11:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.9**	%	1	7/20/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.1**	%	1	7/20/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**10.1**	mg/Kg-dry	1	7/27/04 10:16:12 AM	JMW
Barium	NELAP	0.48		**77.2**	mg/Kg-dry	1	7/24/04 8:13:02 PM	SAM
Cadmium	NELAP	0.19	J	**0.16**	mg/Kg-dry	1	7/24/04 8:13:02 PM	SAM
Chromium	NELAP	0.96		**22.3**	mg/Kg-dry	1	7/26/04 6:31:15 PM	JMW
Lead	NELAP	3.85		**14.9**	mg/Kg-dry	1	7/24/04 8:13:02 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/24/04 8:13:02 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/24/04 8:13:02 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
1,2-Dichlorobenzene	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
1,3-Dichlorobenzene	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
1,4-Dichlorobenzene	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2,4,5-Trichlorophenol	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2,4,6-Trichlorophenol	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2,4-Dichlorophenol	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2,4-Dimethylphenol	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2,4-Dinitrophenol	NELAP	32.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2,4-Dinitrotoluene	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2,6-Dinitrotoluene	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2-Chloronaphthalene	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2-Chlorophenol	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2-Methylnaphthalene	NELAP	11.3	J	**8.0**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2-Nitroaniline	NELAP	32.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
2-Nitrophenol	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
3,3'-Dichlorobenzidine	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
3-Nitroaniline	NELAP	32.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
4,6-Dinitro-2-methylphenol	NELAP	32.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
4-Bromophenyl phenyl ether	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
4-Chloro-3-methylphenol	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
4-Chloroaniline	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
4-Chlorophenyl phenyl ether	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
4-Nitroaniline	NELAP	16.1		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-034
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-11 (10-11)
Collection Date: 7/14/04 11:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Acenaphthene	NELAP	11.3		13.4	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Acenaphthylene	NELAP	11.3		13.8	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Anthracene	NELAP	11.3	J	11	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Benzo(a)anthracene	NELAP	11.3	J	7.5	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Benzo(a)pyrene	NELAP	11.3	J	7.0	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Benzo(b)fluoranthene	NELAP	11.3	J	5.4	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Benzo(k)fluoranthene	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Bis(2-chloroethoxy)methane	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Bis(2-chloroethyl)ether	NELAP	14.7		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Bis(2-chloroisopropyl)ether	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Butyl benzyl phthalate	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Carbazole		16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Chrysene	NELAP	11.3	J	6.7	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Di-n-butyl phthalate	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Di-n-octyl phthalate	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Dibenzofuran	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Diethyl phthalate	NELAP	16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Dimethyl phthalate		11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Fluoranthene	NELAP	11.3		12.2	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Fluorene	NELAP	11.3		15.4	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Hexachlorobenzene	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Hexachlorobutadiene	NELAP	16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Hexachlorocyclopentadiene	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Hexachloroethane	NELAP	16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Isophorone	NELAP	11.3		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
m,p-Cresol	NELAP	16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
N-Nitroso-di-n-propylamine	NELAP	16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
N-Nitrosodiphenylamine	NELAP	16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Naphthalene	NELAP	11.3		113	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Nitrobenzene	NELAP	16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
o-Cresol	NELAP	16.1		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Pentachlorophenol	NELAP	64.6		ND	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-034
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-11 (10-11)
Collection Date: 7/14/04 11:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	11.3		**38.6**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Phenol	NELAP	11.3		**ND**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Pyrene	NELAP	16.1		**19.7**	mg/Kg-dry	25	7/20/04 3:23:00 PM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**62.6**	%REC	25	7/20/04 3:23:00 PM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**82.4**	%REC	25	7/20/04 3:23:00 PM	DMH
Surr: 2-Fluorophenol		27-111		**69.5**	%REC	25	7/20/04 3:23:00 PM	DMH
Surr: Nitrobenzene-d5		28.9-113		**68.5**	%REC	25	7/20/04 3:23:00 PM	DMH
Surr: p-Terphenyl-d14		25-144		**79.6**	%REC	25	7/20/04 3:23:00 PM	DMH
Surr: Phenol-d5		33.7-123		**80.9**	%REC	25	7/20/04 3:23:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
1,1,2-Trichloroethane	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
1,1-Dichloroethane	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
1,1-Dichloroethene	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
1,2-Dichloroethane	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
1,2-Dichloropropane	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
2-Butanone	NELAP	10500		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
2-Hexanone	NELAP	10500		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
4-Methyl-2-pentanone	NELAP	10500		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Acetone	NELAP	10500		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Benzene	NELAP	211		**5040**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Bromodichloromethane	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Bromoform	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Bromomethane	NELAP	2110		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Carbon disulfide	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Carbon tetrachloride	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Chlorobenzene	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Chloroethane	NELAP	2110		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Chloroform	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Chloromethane	NELAP	2110		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	844		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Dibromochloromethane	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Ethylbenzene	NELAP	1050		**17700**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Methyl tert-butyl ether	NELAP	422		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Methylene chloride	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-034
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-11 (10-11)
Collection Date: 7/14/04 11:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Tetrachloroethene	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Toluene	NELAP	1050	J	**720**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	844		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Trichloroethene	NELAP	1050		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Vinyl chloride	NELAP	422		**ND**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Xylenes, Total	NELAP	1050		**11200**	µg/Kg-dry	100	7/20/04 3:25:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**110**	%REC	100	7/20/04 3:25:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**97.1**	%REC	100	7/20/04 3:25:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	100	7/20/04 3:25:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**103**	%REC	100	7/20/04 3:25:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.043**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/23/04 6:02:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.76**		1	7/19/04 11:31:00 AM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-035
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-22 (21-22)
Collection Date: 7/14/04 12:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.0**	%	1	7/19/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Acenaphthylene	NELAP	0.109	J	**0.012**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Anthracene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Benzo(a)anthracene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Benzo(a)pyrene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Chrysene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Fluoranthene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Fluorene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Naphthalene	NELAP	0.109		**0.160**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Phenanthrene	NELAP	0.109	J	**0.020**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Pyrene	NELAP	0.109	J	**0.011**	mg/Kg-dry	1	7/18/04 10:55:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**80.8**	%REC	1	7/18/04 10:55:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**76.9**	%REC	1	7/18/04 10:55:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**94.0**	%REC	1	7/18/04 10:55:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.7		**1.6**	µg/Kg-dry	1	7/23/04 5:41:00 AM	HLR
Toluene	NELAP	3.7		**4.3**	µg/Kg-dry	1	7/23/04 5:41:00 AM	HLR
Ethylbenzene	NELAP	3.7	J	**1.5**	µg/Kg-dry	1	7/23/04 5:41:00 AM	HLR
Xylenes, Total	NELAP	3.7		**4.2**	µg/Kg-dry	1	7/23/04 5:41:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**114**	%REC	1	7/23/04 5:41:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**91.7**	%REC	1	7/23/04 5:41:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**103**	%REC	1	7/23/04 5:41:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.2**	%REC	1	7/23/04 5:41:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-036
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B505-28 (27-28)
Collection Date: 7/14/04 1:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.3**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.7**	%	1	7/19/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.112	J	**0.020**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Acenaphthylene	NELAP	0.112	J	**0.030**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Anthracene	NELAP	0.112	J	**0.037**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Benzo(a)anthracene	NELAP	0.112	J	**0.029**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Benzo(a)pyrene	NELAP	0.112	J	**0.025**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.112	J	**0.020**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Chrysene	NELAP	0.112	J	**0.026**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Fluoranthene	NELAP	0.112	J	**0.051**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Fluorene	NELAP	0.112	J	**0.044**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Naphthalene	NELAP	0.112		**0.179**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Phenanthrene	NELAP	0.112		**0.130**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Pyrene	NELAP	0.112	J	**0.078**	mg/Kg-dry	1	7/18/04 11:34:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**75.0**	%REC	1	7/18/04 11:34:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**74.5**	%REC	1	7/18/04 11:34:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**89.4**	%REC	1	7/18/04 11:34:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**3.0**	µg/Kg-dry	1	7/23/04 6:12:00 AM	HLR
Toluene	NELAP	3.8	J	**2.5**	µg/Kg-dry	1	7/23/04 6:12:00 AM	HLR
Ethylbenzene	NELAP	3.8	J	**2.3**	µg/Kg-dry	1	7/23/04 6:12:00 AM	HLR
Xylenes, Total	NELAP	3.8		**4.0**	µg/Kg-dry	1	7/23/04 6:12:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**98.4**	%REC	1	7/23/04 6:12:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**78.3**	%REC	1	7/23/04 6:12:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.7**	%REC	1	7/23/04 6:12:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**93.5**	%REC	1	7/23/04 6:12:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-037
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-3 (2-3)
Collection Date: 7/14/04 2:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.2**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**79.8**	%	1	7/19/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**< 2.40**	mg/Kg-dry	1	7/27/04 11:00:01 AM	JMW
Barium	NELAP	0.48		**20.1**	mg/Kg-dry	1	7/24/04 8:18:06 PM	SAM
Cadmium	NELAP	0.19		**< 0.19**	mg/Kg-dry	1	7/24/04 8:18:06 PM	SAM
Chromium	NELAP	0.96		**7.23**	mg/Kg-dry	1	7/26/04 6:34:15 PM	JMW
Lead	NELAP	3.85		**8.50**	mg/Kg-dry	1	7/24/04 8:18:06 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/24/04 8:18:06 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/24/04 8:18:06 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	7.90		**8.53**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Acenaphthylene	NELAP	7.90		**26.4**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Anthracene	NELAP	7.90		**8.45**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Benzo(a)anthracene	NELAP	7.90		**10.3**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Benzo(a)pyrene	NELAP	7.90		**54.9**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Benzo(b)fluoranthene	NELAP	7.90		**50.3**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	7.90		**25.6**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Benzo(k)fluoranthene	NELAP	7.90		**11.6**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Chrysene	NELAP	7.90		**18.2**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	7.90	J	**5.0**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Fluoranthene	NELAP	7.90		**17.4**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Fluorene	NELAP	7.90	J	**7.8**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	7.90		**21.1**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Naphthalene	NELAP	7.90	J	**2.2**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Phenanthrene	NELAP	7.90		**9.37**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Pyrene	NELAP	7.90		**26.8**	mg/Kg-dry	2	7/21/04 12:29:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**102**	%REC	2	7/21/04 12:29:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**71.8**	%REC	2	7/21/04 12:29:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**110**	%REC	2	7/21/04 12:29:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	90.0		**195**	µg/Kg-dry	25	7/23/04 6:44:00 AM	HLR
Toluene	NELAP	450	J	**370**	µg/Kg-dry	25	7/23/04 6:44:00 AM	HLR
Ethylbenzene	NELAP	450	J	**200**	µg/Kg-dry	25	7/23/04 6:44:00 AM	HLR
Xylenes, Total	NELAP	450		**456**	µg/Kg-dry	25	7/23/04 6:44:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-037
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-3 (2-3)
Collection Date: 7/14/04 2:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**95.8**	%REC	25	7/23/04 6:44:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**91.3**	%REC	25	7/23/04 6:44:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**94.9**	%REC	25	7/23/04 6:44:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**102**	%REC	25	7/23/04 6:44:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012	J	**0.005**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.62		**1.81**	mg/kg-dry	1	7/26/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.26**		1	7/16/04 10:54:00 AM	EAW

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-038
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-6 (5-6)
Collection Date: 7/14/04 2:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**28.7**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**71.3**	%	1	7/19/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	38.0		**280**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Acenaphthylene	NELAP	38.0	J	**27**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Anthracene	NELAP	38.0		**166**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Benzo(a)anthracene	NELAP	38.0		**119**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Benzo(a)pyrene	NELAP	38.0		**125**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Benzo(b)fluoranthene	NELAP	38.0		**131**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	38.0	J	**29**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Benzo(k)fluoranthene	NELAP	38.0		**50.5**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Chrysene	NELAP	38.0		**116**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	38.0	J	**9.7**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Fluoranthene	NELAP	38.0		**302**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Fluorene	NELAP	38.0		**179**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	38.0	J	**34**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Naphthalene	NELAP	190		**877**	mg/Kg-dry	50	7/21/04 5:31:00 AM	DMH
Phenanthrene	NELAP	38.0		**535**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Pyrene	NELAP	38.0		**335**	mg/Kg-dry	10	7/19/04 4:47:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**120**	%REC	10	7/19/04 4:47:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**100**	%REC	10	7/19/04 4:47:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**130**	%REC	10	7/19/04 4:47:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	117		**4050**	µg/Kg-dry	50	7/23/04 7:15:00 AM	HLR
Toluene	NELAP	585		**811**	µg/Kg-dry	50	7/23/04 7:15:00 AM	HLR
Ethylbenzene	NELAP	585		**20800**	µg/Kg-dry	50	7/23/04 7:15:00 AM	HLR
Xylenes, Total	NELAP	585		**19300**	µg/Kg-dry	50	7/23/04 7:15:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**94.0**	%REC	50	7/23/04 7:15:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**92.1**	%REC	50	7/23/04 7:15:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**92.0**	%REC	50	7/23/04 7:15:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	50	7/23/04 7:15:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-039
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-15 (14-15)
Collection Date: 7/14/04 2:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**11.0**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.0**	%	1	7/19/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	5.47		**15.7**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Acenaphthylene	NELAP	5.47		**35.6**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Anthracene	NELAP	5.47		**77.9**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Benzo(a)anthracene	NELAP	5.47		**50.8**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Benzo(a)pyrene	NELAP	5.47		**53.2**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Benzo(b)fluoranthene	NELAP	5.47		**56.1**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	5.47		**11.5**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Benzo(k)fluoranthene	NELAP	5.47		**20.5**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Chrysene	NELAP	5.47		**47.3**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	5.47	J	**4.0**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Fluoranthene	NELAP	54.7		**133**	mg/Kg-dry	100	7/21/04 9:14:00 AM	DMH
Fluorene	NELAP	5.47		**64.9**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	5.47		**13.6**	mg/Kg-dry	10	7/19/04 5:26:00 AM	DMH
Naphthalene	NELAP	54.7		**523**	mg/Kg-dry	100	7/21/04 9:14:00 AM	DMH
Phenanthrene	NELAP	54.7		**224**	mg/Kg-dry	100	7/21/04 9:14:00 AM	DMH
Pyrene	NELAP	54.7		**138**	mg/Kg-dry	100	7/21/04 9:14:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**120**	%REC	10	7/19/04 5:26:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**109**	%REC	10	7/19/04 5:26:00 AM	DMH
Surr: p-Terphenyl-d14		10-130	S	**160**	%REC	10	7/19/04 5:26:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	513		**3030**	µg/Kg-dry	250	7/23/04 7:46:00 AM	HLR
Toluene	NELAP	2560		**16100**	µg/Kg-dry	250	7/23/04 7:46:00 AM	HLR
Ethylbenzene	NELAP	2560		**10100**	µg/Kg-dry	250	7/23/04 7:46:00 AM	HLR
Xylenes, Total	NELAP	2560		**37300**	µg/Kg-dry	250	7/23/04 7:46:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**111**	%REC	250	7/23/04 7:46:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.0**	%REC	250	7/23/04 7:46:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	250	7/23/04 7:46:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**102**	%REC	250	7/23/04 7:46:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-040
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-24 (23-24)
Collection Date: 7/14/04 3:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**6.6**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**93.4**	%	1	7/19/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	1320		**40400 #**	mg/Kg-dry	25	7/21/04 3:49:00 AM	CJS
Kerosene	NELAP	1320		**ND**	mg/Kg-dry	25	7/21/04 3:49:00 AM	CJS
Mineral Spirits	NELAP	1320		**ND**	mg/Kg-dry	25	7/21/04 3:49:00 AM	CJS
Motor Oil	NELAP	1320		**8910 #**	mg/Kg-dry	25	7/21/04 3:49:00 AM	CJS
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	25	7/21/04 3:49:00 AM	CJS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	52.1		**101**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Acenaphthylene	NELAP	52.1		**664**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Anthracene	NELAP	52.1		**371**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Benzo(a)anthracene	NELAP	52.1		**188**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Benzo(a)pyrene	NELAP	52.1		**194**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Benzo(b)fluoranthene	NELAP	52.1		**154**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	52.1		**57.8**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Benzo(k)fluoranthene	NELAP	52.1	J	**49**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Chrysene	NELAP	52.1		**197**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	52.1	J	**17**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Fluoranthene	NELAP	52.1		**417**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Fluorene	NELAP	52.1		**555**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	52.1	J	**52**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Naphthalene	NELAP	521		**2650**	mg/Kg-dry	500	7/21/04 2:29:00 PM	DMH
Phenanthrene	NELAP	521		**985**	mg/Kg-dry	500	7/21/04 2:29:00 PM	DMH
Pyrene	NELAP	52.1		**588**	mg/Kg-dry	50	7/21/04 9:53:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	50	7/21/04 9:53:00 AM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	50	7/21/04 9:53:00 AM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	50	7/21/04 9:53:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1630		**97300**	µg/Kg-dry	1000	7/23/04 10:55:00 AM	HLR
Toluene	NELAP	8140		**164000**	µg/Kg-dry	1000	7/23/04 10:55:00 AM	HLR
Ethylbenzene	NELAP	8140		**32900**	µg/Kg-dry	1000	7/23/04 10:55:00 AM	HLR
Xylenes, Total	NELAP	8140		**155000**	µg/Kg-dry	1000	7/23/04 10:55:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**106**	%REC	1000	7/23/04 10:55:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**94.3**	%REC	1000	7/23/04 10:55:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070377	**Client Sample ID:**	B553-24 (23-24)
Lab ID:	04070377-040	**Collection Date:**	7/14/04 3:10:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**99.9**	%REC	1000	7/23/04 10:55:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**102**	%REC	1000	7/23/04 10:55:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-041
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-32 (31-32)
Collection Date: 7/14/04 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.1**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.9**	%	1	7/19/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**5.46**	mg/Kg-dry	1	7/26/04 6:37:15 PM	JMW
Barium	NELAP	0.50		**14.6**	mg/Kg-dry	1	7/24/04 8:23:12 PM	SAM
Cadmium	NELAP	0.20		**< 0.20**	mg/Kg-dry	1	7/24/04 8:23:12 PM	SAM
Chromium	NELAP	1.00		**10.1**	mg/Kg-dry	1	7/26/04 6:37:15 PM	JMW
Lead	NELAP	4.00		**8.62**	mg/Kg-dry	1	7/24/04 8:23:12 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	7/24/04 8:23:12 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	7/24/04 8:23:12 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
1,2-Dichlorobenzene	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
1,3-Dichlorobenzene	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
1,4-Dichlorobenzene	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2,4,5-Trichlorophenol	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2,4,6-Trichlorophenol	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2,4-Dichlorophenol	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2,4-Dimethylphenol	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.09		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2,4-Dinitrotoluene	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2,6-Dinitrotoluene	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2-Chloronaphthalene	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2-Chlorophenol	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2-Methylnaphthalene	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2-Nitroaniline	NELAP	1.09		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
2-Nitrophenol	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
3,3'-Dichlorobenzidine	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
3-Nitroaniline	NELAP	1.09		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
4,6-Dinitro-2-methylphenol	NELAP	1.09		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
4-Bromophenyl phenyl ether	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
4-Chloro-3-methylphenol	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
4-Chloroaniline	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
4-Chlorophenyl phenyl ether	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
4-Nitroaniline	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-041
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-32 (31-32)
Collection Date: 7/14/04 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Acenaphthene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Acenaphthylene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Anthracene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Benzo(a)anthracene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Benzo(a)pyrene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Bis(2-chloroethyl)ether	NELAP	0.497		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Bis(2-chloroisopropyl)ether	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.382	J	0.30	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Butyl benzyl phthalate	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Carbazole		0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Chrysene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Di-n-octyl phthalate	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Dibenzofuran	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Diethyl phthalate	NELAP	0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Dimethyl phthalate		0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Fluoranthene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Fluorene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Hexachlorobenzene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Hexachlorobutadiene	NELAP	0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Hexachlorocyclopentadiene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Hexachloroethane	NELAP	0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Isophorone	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
m,p-Cresol	NELAP	0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
N-Nitroso-di-n-propylamine	NELAP	0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
N-Nitrosodiphenylamine	NELAP	0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Naphthalene	NELAP	0.382		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Nitrobenzene	NELAP	0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
o-Cresol	NELAP	0.545		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Pentachlorophenol	NELAP	2.18		ND	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-041
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-32 (31-32)
Collection Date: 7/14/04 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Phenol	NELAP	0.382		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Pyrene	NELAP	0.545		**ND**	mg/Kg-dry	1	7/20/04 10:48:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**94.5**	%REC	1	7/20/04 10:48:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**87.4**	%REC	1	7/20/04 10:48:00 AM	DMH
Surr: 2-Fluorophenol		27-111		**77.7**	%REC	1	7/20/04 10:48:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		**76.9**	%REC	1	7/20/04 10:48:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		**95.6**	%REC	1	7/20/04 10:48:00 AM	DMH
Surr: Phenol-d5		33.7-123		**92.3**	%REC	1	7/20/04 10:48:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
1,1,2-Trichloroethane	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
1,1-Dichloroethane	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
1,1-Dichloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
1,2-Dichloroethane	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
1,2-Dichloropropane	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
2-Butanone	NELAP	36.3		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
2-Hexanone	NELAP	36.3		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
4-Methyl-2-pentanone	NELAP	36.3		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Acetone	NELAP	36.3		**37.1**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Benzene	NELAP	0.7		**3.5**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Bromodichloromethane	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Bromoform	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Bromomethane	NELAP	7.3		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Carbon disulfide	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Carbon tetrachloride	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Chlorobenzene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Chloroethane	NELAP	7.3		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Chloroform	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Chloromethane	NELAP	7.3		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	2.9		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Dibromochloromethane	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Ethylbenzene	NELAP	3.6	J	**1.5**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Methyl tert-butyl ether	NELAP	1.5		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Methylene chloride	NELAP	3.6	J	**0.8**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-041
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-32 (31-32)
Collection Date: 7/14/04 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Tetrachloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Toluene	NELAP	3.6		**4.5**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	2.9		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Trichloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Vinyl chloride	NELAP	1.5		**ND**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Xylenes, Total	NELAP	3.6		**3.6**	µg/Kg-dry	1	7/20/04 5:00:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**112**	%REC	1	7/20/04 5:00:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**73.8**	%REC	1	7/20/04 5:00:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**106**	%REC	1	7/20/04 5:00:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**88.7**	%REC	1	7/20/04 5:00:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.010	J	**0.009**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/23/04 6:18:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.11**		1	7/16/04 10:56:00 AM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-042
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-32D (31-32)
Collection Date: 7/14/04 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**8.4**	%	1	7/19/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**91.6**	%	1	7/19/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.36		**2.98**	mg/Kg-dry	1	7/26/04 1:00:18 PM	JMW
Barium	NELAP	0.47		**11.9**	mg/Kg-dry	1	7/24/04 5:41:49 PM	SAM
Cadmium	NELAP	0.19		**< 0.19**	mg/Kg-dry	1	7/24/04 5:41:49 PM	SAM
Chromium	NELAP	0.94		**10.5**	mg/Kg-dry	1	7/26/04 1:00:18 PM	JMW
Lead	NELAP	3.77		**6.92**	mg/Kg-dry	1	7/24/04 5:41:49 PM	SAM
Selenium	NELAP	3.77		**< 3.77**	mg/Kg-dry	1	7/24/04 5:41:49 PM	SAM
Silver	NELAP	0.94		**< 0.94**	mg/Kg-dry	1	7/24/04 5:41:49 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
1,2-Dichlorobenzene	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
1,3-Dichlorobenzene	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
1,4-Dichlorobenzene	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2,4,5-Trichlorophenol	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2,4,6-Trichlorophenol	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2,4-Dichlorophenol	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2,4-Dimethylphenol	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.08		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2,4-Dinitrotoluene	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2,6-Dinitrotoluene	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2-Chloronaphthalene	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2-Chlorophenol	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2-Methylnaphthalene	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2-Nitroaniline	NELAP	1.08		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
2-Nitrophenol	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
3,3'-Dichlorobenzidine	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
3-Nitroaniline	NELAP	1.08		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
4,6-Dinitro-2-methylphenol	NELAP	1.08		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
4-Bromophenyl phenyl ether	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
4-Chloro-3-methylphenol	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
4-Chloroaniline	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
4-Chlorophenyl phenyl ether	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
4-Nitroaniline	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-042
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-32D (31-32)
Collection Date: 7/14/04 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Acenaphthene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Acenaphthylene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Anthracene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Benzo(a)anthracene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Benzo(a)pyrene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Bis(2-chloroethoxy)methane	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Bis(2-chloroethyl)ether	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Bis(2-chloroisopropyl)ether	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.376		0.404	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Butyl benzyl phthalate	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Carbazole		0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Chrysene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Di-n-octyl phthalate	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Dibenzofuran	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Diethyl phthalate	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Dimethyl phthalate		0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Fluoranthene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Fluorene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Hexachlorobenzene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Hexachlorobutadiene	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Hexachlorocyclopentadiene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Hexachloroethane	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Isophorone	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
m,p-Cresol	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
N-Nitroso-di-n-propylamine	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
N-Nitrosodiphenylamine	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Naphthalene	NELAP	0.376		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Nitrobenzene	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
o-Cresol	NELAP	0.538		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Pentachlorophenol	NELAP	2.15		ND	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH

TEKLAB, INC.

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-042
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-32D (31-32)
Collection Date: 7/14/04 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Phenol	NELAP	0.376		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Pyrene	NELAP	0.538		**ND**	mg/Kg-dry	1	7/20/04 11:27:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		**86.6**	%REC	1	7/20/04 11:27:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		**83.9**	%REC	1	7/20/04 11:27:00 AM	DMH
Surr: 2-Fluorophenol		27-111		**72.3**	%REC	1	7/20/04 11:27:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		**72.8**	%REC	1	7/20/04 11:27:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		**88.9**	%REC	1	7/20/04 11:27:00 AM	DMH
Surr: Phenol-d5		33.7-123		**81.8**	%REC	1	7/20/04 11:27:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
1,1,2-Trichloroethane	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
1,1-Dichloroethane	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
1,1-Dichloroethene	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
1,2-Dichloroethane	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
1,2-Dichloropropane	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
2-Butanone	NELAP	35.2		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
2-Hexanone	NELAP	35.2		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
4-Methyl-2-pentanone	NELAP	35.2		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Acetone	NELAP	35.2	J	**19**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Benzene	NELAP	0.7		**2.1**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Bromodichloromethane	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Bromoform	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Bromomethane	NELAP	7.0		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Carbon disulfide	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Carbon tetrachloride	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Chlorobenzene	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Chloroethane	NELAP	7.0		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Chloroform	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Chloromethane	NELAP	7.0		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	2.8		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Dibromochloromethane	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Ethylbenzene	NELAP	3.5	J	**0.9**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Methyl tert-butyl ether	NELAP	1.4		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Methylene chloride	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070377
Lab ID: 04070377-042
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B553-32D (31-32)
Collection Date: 7/14/04 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Tetrachloroethene	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Toluene	NELAP	3.5	J	**3.0**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	2.8		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Trichloroethene	NELAP	3.5		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Vinyl chloride	NELAP	1.4		**ND**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Xylenes, Total	NELAP	3.5	J	**3.1**	µg/Kg-dry	1	7/20/04 5:31:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**107**	%REC	1	7/20/04 5:31:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**92.3**	%REC	1	7/20/04 5:31:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.7**	%REC	1	7/20/04 5:31:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**99.1**	%REC	1	7/20/04 5:31:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.010	J	**0.007**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/23/04 3:05:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.25**		1	7/16/04 10:58:00 AM	EAW

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

August 11, 2004

Jim Gould
Philip Environmental
210 West Sand Bank Road
Columbia, IL 622360230
TEL: (618) 281-7173
FAX: (618) 281-5120

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: A831-735002-012901-225/IP Champaign OrderNo. 04070448

Dear Jim Gould:

TEKLAB, INC received 30 samples on 7/16/04 4:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Philip Environmental
Project: A831-735002-012901-225/IP Champaign
LabOrder: 04070448
Report Date: August 11, 2004

CASE NARRATIVE

This is a revised report. The list of VOC (8260) and SVOC(8270) compounds has been revised according to IEPA Title 35, Subtitle G, Chapter I, Part 740, Appendix A. Please replace your original report for this work order with this revised report.
Analytical Comments for METHOD V_8260S_S, SAMPLE 04070448-005D, 011D, 018D: Elevated reporting limit due to matrix interference.
Analytical Comments for METHOD V_8260S_S, SAMPLE 04070448-023D: Matrix interference present in sample.
Analytical Comments for METHOD SV_OA2_S, SAMPLE 04070448-002A, 027A: Elevated reporting limit due to matrix interference. #: Unknown hydrocarbon.
Analytical Comments for METHOD SV_OA2_S, SAMPLE 04070448-002AMS, 002AMSD: Elevated reporting limit due to matrix interference. #: Unknown hydrocarbon. Matrix spike recovery exceeded QC limits because of sample composition. RPD was not within acceptable limits because of sample composition.
Analytical Comments for METHOD SV_OA2_S, SAMPLE 04070448-008A, 012A, 018A, 022A: Elevated reporting limit due to matrix interference. #: Unknown hydrocarbon. Surrogate was diluted out.
Analytical Comments for METHOD V_BTEX_S, SAMPLE 04070448-004D, 009D, 010D, 014D, 015D, 016D, 025D, 026D, 028D, 030D: Matrix interference present in sample.
Analytical Comments for METHOD V_BTEX_S, SAMPLE 04070448-002E, 012E, 027E: Elevated reporting limit due to matrix interference.
Analytical Comments for METHOD SV_8270S_S_SIMS, SAMPLE 04070448-001A, 002A, 006A, 012A, 016A, 020A, 025A, 026A, 027A: Elevated reporting limit due to matrix interference.
Analytical Comments for METHOD SV_8270S_S_SIMS, SAMPLE 04070448-001AMS, 001AMSD: Elevated reporting limit due to matrix interference. Matrix spike was diluted out.
Analytical Comments for METHOD SV_8270S_S_SIMS, SAMPLE 04070448-007A, 008A, 010A, 012A, 017A, 021A, 022A: Elevated reporting limit due to matrix interference. Surrogate was diluted out.
Analytical Comments for METHOD SV_8270S_S, SAMPLE 04070448-005A, 011A, 011AMS, 011AMSD, 018A: Elevated reporting limit due to matrix interference.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B551-3 (2-3)
Collection Date: 7/15/04 8:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**22.5**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**77.5**	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		**10.7**	mg/Kg-dry	1	7/27/04 2:12:55 PM	JMW
Barium	NELAP	0.49		**60.5**	mg/Kg-dry	1	7/27/04 11:15:49 AM	SAM
Cadmium	NELAP	0.20		**0.39**	mg/Kg-dry	1	7/27/04 11:15:49 AM	SAM
Chromium	NELAP	0.98		**10.3**	mg/Kg-dry	1	7/26/04 4:21:10 PM	JMW
Lead	NELAP	3.92		**50.6**	mg/Kg-dry	1	7/27/04 11:15:49 AM	SAM
Selenium	NELAP	3.92		**< 3.92**	mg/Kg-dry	1	7/27/04 11:15:49 AM	SAM
Silver	NELAP	0.98		**< 0.98**	mg/Kg-dry	1	7/27/04 11:15:49 AM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	6.54	J	**3.7**	mg/Kg-dry	10	7/26/04 2:38:00 AM	DMH
Acenaphthylene	NELAP	6.54		**14.2**	mg/Kg-dry	10	7/26/04 2:38:00 AM	DMH
Anthracene	NELAP	6.54		**20.2**	mg/Kg-dry	10	7/26/04 2:38:00 AM	DMH
Benzo(a)anthracene	NELAP	32.7		**51.7**	mg/Kg-dry	50	7/23/04 4:46:00 PM	DMH
Benzo(a)pyrene	NELAP	32.7		**67.5**	mg/Kg-dry	50	7/23/04 4:46:00 PM	DMH
Benzo(b)fluoranthene	NELAP	32.7		**83.2**	mg/Kg-dry	50	7/23/04 4:46:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	32.7	J	**28**	mg/Kg-dry	50	7/23/04 4:46:00 PM	DMH
Benzo(k)fluoranthene	NELAP	32.7	J	**25**	mg/Kg-dry	50	7/23/04 4:46:00 PM	DMH
Chrysene	NELAP	32.7		**51.2**	mg/Kg-dry	50	7/23/04 4:46:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	32.7	J	**9.0**	mg/Kg-dry	50	7/23/04 4:46:00 PM	DMH
Fluoranthene	NELAP	6.54		**93.0**	mg/Kg-dry	10	7/26/04 2:38:00 AM	DMH
Fluorene	NELAP	6.54		**7.06**	mg/Kg-dry	10	7/26/04 2:38:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	32.7		**32.8**	mg/Kg-dry	50	7/23/04 4:46:00 PM	DMH
Naphthalene	NELAP	6.54		**8.45**	mg/Kg-dry	10	7/26/04 2:38:00 AM	DMH
Phenanthrene	NELAP	6.54		**46.8**	mg/Kg-dry	10	7/26/04 2:38:00 AM	DMH
Pyrene	NELAP	6.54		**76.4**	mg/Kg-dry	10	7/26/04 2:38:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**79.8**	%REC	10	7/26/04 2:38:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**60.1**	%REC	10	7/26/04 2:38:00 AM	DMH
Surr: p-Terphenyl-d14		10-130	S	**150**	%REC	10	7/26/04 2:38:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	39.8		**972**	µg/Kg-dry	12.5	7/23/04 2:55:00 PM	HLR
Toluene	NELAP	199		**244**	µg/Kg-dry	12.5	7/23/04 2:55:00 PM	HLR
Ethylbenzene	NELAP	199		**282**	µg/Kg-dry	12.5	7/23/04 2:55:00 PM	HLR
Xylenes, Total	NELAP	199		**276**	µg/Kg-dry	12.5	7/23/04 2:55:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B551-3 (2-3)
Collection Date: 7/15/04 8:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**107**	%REC	12.5	7/23/04 2:55:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.0**	%REC	12.5	7/23/04 2:55:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.0**	%REC	12.5	7/23/04 2:55:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**99.5**	%REC	12.5	7/23/04 2:55:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.281**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.64		**3.00**	mg/kg-dry	1	7/27/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.72**		1	7/19/04 1:32:00 PM	EAW

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070448	**Client Sample ID:**	B551-10 (9-10)
Lab ID:	04070448-002	**Collection Date:**	7/15/04 9:00:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**27.1**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**72.9**	%	1	7/22/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	68.0		**699 #**	mg/Kg-dry	5	7/23/04 1:08:00 PM	DMH
Kerosene	NELAP	68.0		**ND**	mg/Kg-dry	5	7/23/04 1:08:00 PM	DMH
Mineral Spirits	NELAP	68.0		**ND**	mg/Kg-dry	5	7/23/04 1:08:00 PM	DMH
Motor Oil	NELAP	68.0		**139 #**	mg/Kg-dry	5	7/23/04 1:08:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**85.2**	%REC	5	7/23/04 1:08:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	6.56		**23.3**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Acenaphthylene	NELAP	6.56	J	**3.0**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Anthracene	NELAP	6.56		**13.3**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Benzo(a)anthracene	NELAP	6.56		**9.62**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Benzo(a)pyrene	NELAP	6.56		**12.3**	mg/Kg-dry	5	7/27/04 11:28:00 AM	DMH
Benzo(b)fluoranthene	NELAP	6.56		**11.0**	mg/Kg-dry	5	7/27/04 11:28:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	6.56	J	**3.5**	mg/Kg-dry	5	7/27/04 11:28:00 AM	DMH
Benzo(k)fluoranthene	NELAP	6.56	J	**4.2**	mg/Kg-dry	5	7/27/04 11:28:00 AM	DMH
Chrysene	NELAP	6.56		**10.1**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	6.56	J	**1.0**	mg/Kg-dry	5	7/27/04 11:28:00 AM	DMH
Fluoranthene	NELAP	6.56		**20.5**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Fluorene	NELAP	6.56		**15.2**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	6.56	J	**3.7**	mg/Kg-dry	5	7/27/04 11:28:00 AM	DMH
Naphthalene	NELAP	6.56		**46.3**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Phenanthrene	NELAP	6.56		**40.8**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Pyrene	NELAP	6.56		**21.4**	mg/Kg-dry	5	7/27/04 1:43:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**69.9**	%REC	5	7/27/04 1:43:00 AM	DMH
Surr: Nitrobenzene-d5		10-130	S	**0**	%REC	5	7/27/04 1:43:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**84.9**	%REC	5	7/27/04 1:43:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	58.8		**1260**	µg/Kg-dry	25	7/23/04 3:27:00 PM	HLR
Toluene	NELAP	294	J	**69**	µg/Kg-dry	25	7/23/04 3:27:00 PM	HLR
Ethylbenzene	NELAP	1180		**13600**	µg/Kg-dry	100	7/24/04 11:39:00 PM	HLR
Xylenes, Total	NELAP	294		**5720**	µg/Kg-dry	25	7/23/04 3:27:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**106**	%REC	25	7/23/04 3:27:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.2**	%REC	25	7/23/04 3:27:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070448	**Client Sample ID:**	B551-10 (9-10)
Lab ID:	04070448-002	**Collection Date:**	7/15/04 9:00:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**96.9**	%REC	25	7/23/04 3:27:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	25	7/23/04 3:27:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-003
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B551-16 (15-16)
Collection Date: 7/15/04 9:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.0**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.113	J	**0.013**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Acenaphthylene	NELAP	0.113	J	**0.080**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Anthracene	NELAP	0.113	J	**0.021**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Benzo(a)anthracene	NELAP	0.113	J	**0.027**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Benzo(a)pyrene	NELAP	0.113	J	**0.023**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.113	J	**0.020**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Chrysene	NELAP	0.113	J	**0.026**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Fluoranthene	NELAP	0.113	J	**0.040**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Fluorene	NELAP	0.113	J	**0.019**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Naphthalene	NELAP	0.113		**1.51**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Phenanthrene	NELAP	0.113	J	**0.066**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Pyrene	NELAP	0.113	J	**0.058**	mg/Kg-dry	1	7/22/04 12:22:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**33.9**	%REC	1	7/22/04 12:22:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**19.6**	%REC	1	7/22/04 12:22:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**60.3**	%REC	1	7/22/04 12:22:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**14.8**	µg/Kg-dry	1	7/23/04 3:58:00 PM	HLR
Toluene	NELAP	3.8		**73.6**	µg/Kg-dry	1	7/23/04 3:58:00 PM	HLR
Ethylbenzene	NELAP	3.8		**42.0**	µg/Kg-dry	1	7/23/04 3:58:00 PM	HLR
Xylenes, Total	NELAP	3.8		**128**	µg/Kg-dry	1	7/23/04 3:58:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**107**	%REC	1	7/23/04 3:58:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**82.3**	%REC	1	7/23/04 3:58:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**98.1**	%REC	1	7/23/04 3:58:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**98.1**	%REC	1	7/23/04 3:58:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-004
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B551-28 (27-28)
Collection Date: 7/15/04 9:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.5**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.5**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.112	J	**0.038**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Acenaphthylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Anthracene	NELAP	0.112	J	**0.037**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Benzo(a)anthracene	NELAP	0.112	J	**0.032**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Benzo(a)pyrene	NELAP	0.112	J	**0.029**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.112	J	**0.027**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.112	J	**0.013**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Chrysene	NELAP	0.112	J	**0.031**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Fluoranthene	NELAP	0.112	J	**0.058**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Fluorene	NELAP	0.112	J	**0.036**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Naphthalene	NELAP	0.112	J	**0.082**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Phenanthrene	NELAP	0.112		**0.121**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Pyrene	NELAP	0.112	J	**0.076**	mg/Kg-dry	1	7/22/04 2:21:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**36.4**	%REC	1	7/22/04 2:21:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**21.9**	%REC	1	7/22/04 2:21:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**69.0**	%REC	1	7/22/04 2:21:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.2		**2.6**	µg/Kg-dry	1	7/23/04 4:30:00 PM	HLR
Toluene	NELAP	5.8	J	**3.4**	µg/Kg-dry	1	7/23/04 4:30:00 PM	HLR
Ethylbenzene	NELAP	5.8	J	**3.3**	µg/Kg-dry	1	7/23/04 4:30:00 PM	HLR
Xylenes, Total	NELAP	5 8	J	**5.6**	µg/Kg-dry	1	7/23/04 4:30:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**126**	%REC	1	7/23/04 4:30:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**72.6**	%REC	1	7/23/04 4:30:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**111**	%REC	1	7/23/04 4:30:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**87.0**	%REC	1	7/23/04 4:30:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-005
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B554-3 (2-3)
Collection Date: 7/15/04 10:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**22.0**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.0**	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.27		**19.3**	mg/Kg-dry	1	7/26/04 4:24:16 PM	JMW
Barium	NELAP	0.45		**207**	mg/Kg-dry	1	7/27/04 11:31:25 AM	SAM
Cadmium	NELAP	0.18		**0.97**	mg/Kg-dry	1	7/27/04 11:31:25 AM	SAM
Chromium	NELAP	0.91		**16.3**	mg/Kg-dry	1	7/26/04 4:24:16 PM	JMW
Lead	NELAP	3.64		**252**	mg/Kg-dry	1	7/27/04 11:31:25 AM	SAM
Selenium	NELAP	3.64		**< 3.64**	mg/Kg-dry	1	7/27/04 11:31:25 AM	SAM
Silver	NELAP	0.91		**< 0.91**	mg/Kg-dry	1	7/27/04 11:31:25 AM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
1,2-Dichlorobenzene	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
1,3-Dichlorobenzene	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
1,4-Dichlorobenzene	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2,4,5-Trichlorophenol	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2,4,6-Trichlorophenol	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2,4-Dichlorophenol	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2,4-Dimethylphenol	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2,4-Dinitrophenol	NELAP	25.8		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2,4-Dinitrotoluene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2,6-Dinitrotoluene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2-Chloronaphthalene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2-Chlorophenol	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2-Methylnaphthalene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2-Nitroaniline	NELAP	25.8		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
2-Nitrophenol	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
3-Nitroaniline	NELAP	25.8		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	25.8		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
4-Chloro-3-methylphenol	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
4-Chloroaniline	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
4-Nitroaniline	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-005
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B554-3 (2-3)
Collection Date: 7/15/04 10:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Acenaphthene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Acenaphthylene	NELAP	9.02		**9.15**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Anthracene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Benzo(a)anthracene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Benzo(a)pyrene	NELAP	9.02	J	**8.5**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Benzo(b)fluoranthene	NELAP	9.02	J	**8.2**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Benzo(g,h,i)perylene	NELAP	9.02	J	**8.5**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Benzo(k)fluoranthene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	11.8		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Butyl benzyl phthalate	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Carbazole		12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Chrysene	NELAP	9.02	J	**4.3**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Di-n-butyl phthalate	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Di-n-octyl phthalate	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Dibenzofuran	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Diethyl phthalate	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Dimethyl phthalate		9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Fluoranthene	NELAP	9.02	J	**4.6**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Fluorene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Hexachlorobenzene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Hexachlorobutadiene	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Hexachlorocyclopentadiene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Hexachloroethane	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	9.02	J	**4.4**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Isophorone	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
m,p-Cresol	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
N-Nitrosodiphenylamine	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Naphthalene	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Nitrobenzene	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
o-Cresol	NELAP	12.9		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Pentachlorophenol	NELAP	51.6		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-005
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B554-3 (2-3)
Collection Date: 7/15/04 10:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	9.02	J	**3.3**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Phenol	NELAP	9.02		**ND**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Pyrene	NELAP	12.9	J	**8.5**	mg/Kg-dry	10	7/23/04 3:02:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**66.2**	%REC	10	7/23/04 3:02:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**95.6**	%REC	10	7/23/04 3:02:00 PM	SML
Surr: 2-Fluorophenol		27-111		**51.6**	%REC	10	7/23/04 3:02:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**83.3**	%REC	10	7/23/04 3:02:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**102**	%REC	10	7/23/04 3:02:00 PM	SML
Surr: Phenol-d5		33.7-123		**64.7**	%REC	10	7/23/04 3:02:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
1,1,2-Trichloroethane	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
1,1-Dichloroethane	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
1,1-Dichloroethene	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
1,2-Dichloroethane	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
1,2-Dichloropropane	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
2-Butanone	NELAP	1800	J	**720**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
2-Hexanone	NELAP	1800		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
4-Methyl-2-pentanone	NELAP	1800		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Acetone	NELAP	1800		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Benzene	NELAP	36.0		**180**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Bromodichloromethane	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Bromoform	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Bromomethane	NELAP	360		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Carbon disulfide	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Carbon tetrachloride	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Chlorobenzene	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Chloroethane	NELAP	360		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Chloroform	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Chloromethane	NELAP	360		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	144		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Dibromochloromethane	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Ethylbenzene	NELAP	180		**256**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Methyl tert-butyl ether	NELAP	72.0		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Methylene chloride	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-005
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B554-3 (2-3)
Collection Date: 7/15/04 10:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Tetrachloroethene	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Toluene	NELAP	180		**211**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	144		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Trichloroethene	NELAP	180		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Vinyl chloride	NELAP	72.0		**ND**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Xylenes, Total	NELAP	180		**624**	µg/Kg-dry	12.5	7/20/04 6:03:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**101**	%REC	12.5	7/20/04 6:03:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**97.2**	%REC	12.5	7/20/04 6:03:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**93.9**	%REC	12.5	7/20/04 6:03:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	12.5	7/20/04 6:03:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		**0.076**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/23/04 6:34:00 PM	SML
SW-846 9010, 9014								
Cyanide	NELAP	0.64		**3.01**	mg/kg-dry	1	7/27/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.62**		1	7/19/04 1:34:00 PM	EAW

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-006
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B554-3D (2-3)
Collection Date: 7/15/04 10:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**23.3**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**76.7**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	3.28	J	**0.62**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Acenaphthylene	NELAP	3.28		**11.7**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Anthracene	NELAP	3.28	J	**3.1**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Benzo(a)anthracene	NELAP	3.28		**11.1**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Benzo(a)pyrene	NELAP	3.28		**20.9**	mg/Kg-dry	5	7/27/04 12:07:00 PM	DMH
Benzo(b)fluoranthene	NELAP	3.28		**22.4**	mg/Kg-dry	5	7/27/04 12:07:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	3.28		**7.15**	mg/Kg-dry	5	7/27/04 12:07:00 PM	DMH
Benzo(k)fluoranthene	NELAP	3.28		**7.71**	mg/Kg-dry	5	7/27/04 12:07:00 PM	DMH
Chrysene	NELAP	3.28		**16.7**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	3.28	J	**1.6**	mg/Kg-dry	5	7/27/04 12:07:00 PM	DMH
Fluoranthene	NELAP	3.28		**18.5**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Fluorene	NELAP	3.28	J	**2.3**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	3.28		**6.22**	mg/Kg-dry	5	7/27/04 12:07:00 PM	DMH
Naphthalene	NELAP	3.28	J	**3.1**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Phenanthrene	NELAP	3.28		**10.7**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Pyrene	NELAP	3.28		**33.1**	mg/Kg-dry	5	7/26/04 11:08:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**74.9**	%REC	5	7/26/04 11:08:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**59.8**	%REC	5	7/26/04 11:08:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**99.5**	%REC	5	7/26/04 11:08:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	36.1		**147**	µg/Kg-dry	12.5	7/23/04 5:02:00 PM	HLR
Toluene	NELAP	180		**261**	µg/Kg-dry	12.5	7/23/04 5:02:00 PM	HLR
Ethylbenzene	NELAP	180		**247**	µg/Kg-dry	12.5	7/23/04 5:02:00 PM	HLR
Xylenes, Total	NELAP	180		**668**	µg/Kg-dry	12.5	7/23/04 5:02:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**112**	%REC	12.5	7/23/04 5:02:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.6**	%REC	12.5	7/23/04 5:02:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.2**	%REC	12.5	7/23/04 5:02:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	12.5	7/23/04 5:02:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-007
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B554-10 (9-10)
Collection Date: 7/15/04 10:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**33.1**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**66.9**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	7.60		**77.4**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Acenaphthylene	NELAP	7.60	J	**7.3**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Anthracene	NELAP	7.60		**29.4**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Benzo(a)anthracene	NELAP	7.60		**12.8**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Benzo(a)pyrene	NELAP	7.60		**14.5**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Benzo(b)fluoranthene	NELAP	7.60		**12.8**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	7.60	J	**2.2**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Benzo(k)fluoranthene	NELAP	7.60	J	**4.7**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Chrysene	NELAP	7.60		**13.8**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	7.60	J	**0.79**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Fluoranthene	NELAP	7.60		**31.9**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Fluorene	NELAP	7.60		**41.7**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	7.60	J	**1.9**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Naphthalene	NELAP	7.60	J	**1.8**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Phenanthrene	NELAP	7.60		**90.7**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Pyrene	NELAP	7.60		**42.4**	mg/Kg-dry	50	7/27/04 2:51:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	50	7/27/04 2:51:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	50	7/27/04 2:51:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	50	7/27/04 2:51:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	292		**765**	µg/Kg-dry	100	7/23/04 5:33:00 PM	HLR
Toluene	NELAP	1460		**2700**	µg/Kg-dry	100	7/23/04 5:33:00 PM	HLR
Ethylbenzene	NELAP	1460		**3910**	µg/Kg-dry	100	7/23/04 5:33:00 PM	HLR
Xylenes, Total	NELAP	1460		**6120**	µg/Kg-dry	100	7/23/04 5:33:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**115**	%REC	100	7/23/04 5:33:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.2**	%REC	100	7/23/04 5:33:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	100	7/23/04 5:33:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**99.3**	%REC	100	7/23/04 5:33:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-008
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B554-18 (17-18)
Collection Date: 7/15/04 11:35:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.4**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.6**	%	1	7/22/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	279		**5480 #**	mg/Kg-dry	50	7/23/04 1:36:00 PM	DMH
Kerosene	NELAP	279		**ND**	mg/Kg-dry	50	7/23/04 1:36:00 PM	DMH
Mineral Spirits	NELAP	279		**ND**	mg/Kg-dry	50	7/23/04 1:36:00 PM	DMH
Motor Oil	NELAP	279		**1190 #**	mg/Kg-dry	50	7/23/04 1:36:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	50	7/23/04 1:36:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	50.9		**98.9**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Acenaphthylene	NELAP	50.9		**230**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Anthracene	NELAP	50.9		**172**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Benzo(a)anthracene	NELAP	50.9		**78.2**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Benzo(a)pyrene	NELAP	50.9		**86.0**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Benzo(b)fluoranthene	NELAP	50.9		**73.5**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	50.9	J	**13**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Benzo(k)fluoranthene	NELAP	50.9	J	**26**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Chrysene	NELAP	50.9		**79.1**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	50.9		**ND**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Fluoranthene	NELAP	50.9		**173**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Fluorene	NELAP	50.9		**241**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	50.9	J	**14**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Naphthalene	NELAP	509		**1070**	mg/Kg-dry	500	7/27/04 2:13:00 PM	DMH
Phenanthrene	NELAP	50.9		**593**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Pyrene	NELAP	50.9		**242**	mg/Kg-dry	50	7/27/04 12:46:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	50	7/27/04 12:46:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	50	7/27/04 12:46:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	50	7/27/04 12:46:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	389		**5620**	µg/Kg-dry	250	7/23/04 6:05:00 PM	HLR
Toluene	NELAP	1950		**7780**	µg/Kg-dry	250	7/23/04 6:05:00 PM	HLR
Ethylbenzene	NELAP	1950		**9020**	µg/Kg-dry	250	7/23/04 6:05:00 PM	HLR
Xylenes, Total	NELAP	1950		**13000**	µg/Kg-dry	250	7/23/04 6:05:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**116**	%REC	250	7/23/04 6:05:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**94.8**	%REC	250	7/23/04 6:05:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070448	**Client Sample ID:**	B554-18 (17-18)
Lab ID:	04070448-008	**Collection Date:**	7/15/04 11:35:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**102**	%REC	250	7/23/04 6:05:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	250	7/23/04 6:05:00 PM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-009
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B554-32 (31-32)
Collection Date: 7/15/04 11:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.8**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.2**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Acenaphthylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Benzo(a)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Benzo(a)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Chrysene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Fluorene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Naphthalene	NELAP	0.112	J	**0.057**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Phenanthrene	NELAP	0.112	J	**0.025**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Pyrene	NELAP	0.112	J	**0.011**	mg/Kg-dry	1	7/22/04 3:02:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**37.4**	%REC	1	7/22/04 3:02:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**27.3**	%REC	1	7/22/04 3:02:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**66.3**	%REC	1	7/22/04 3:02:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.7		**3.7**	µg/Kg-dry	1	7/23/04 6:36:00 PM	HLR
Toluene	NELAP	3.7		**9.5**	µg/Kg-dry	1	7/23/04 6:36:00 PM	HLR
Ethylbenzene	NELAP	3.7		**4.8**	µg/Kg-dry	1	7/23/04 6:36:00 PM	HLR
Xylenes, Total	NELAP	3.7		**17.8**	µg/Kg-dry	1	7/23/04 6:36:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**124**	%REC	1	7/23/04 6:36:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**70.9**	%REC	1	7/23/04 6:36:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**110**	%REC	1	7/23/04 6:36:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**88.1**	%REC	1	7/23/04 6:36:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-010
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-1 (0-1)
Collection Date: 7/15/04 1:40:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.7**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.3**	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		**37.2**	mg/Kg-dry	1	7/26/04 4:33:11 PM	JMW
Barium	NELAP	0.49		**135**	mg/Kg-dry	1	7/27/04 11:36:43 AM	SAM
Cadmium	NELAP	0.20		**1.59**	mg/Kg-dry	1	7/27/04 11:36:43 AM	SAM
Chromium	NELAP	0.98		**19.4**	mg/Kg-dry	1	7/26/04 4:33:11 PM	JMW
Lead	NELAP	3.92		**358**	mg/Kg-dry	1	7/27/04 11:36:43 AM	SAM
Selenium	NELAP	3.92		**< 3.92**	mg/Kg-dry	1	7/27/04 11:36:43 AM	SAM
Silver	NELAP	0.98		**< 0.98**	mg/Kg-dry	1	7/27/04 11:36:43 AM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	3.20		**ND**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Acenaphthylene	NELAP	3.20	J	**1.1**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Anthracene	NELAP	3.20	J	**0.57**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Benzo(a)anthracene	NELAP	3.20	J	**2.3**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Benzo(a)pyrene	NELAP	3.20		**4.11**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Benzo(b)fluoranthene	NELAP	3.20		**5.54**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	3.20	J	**2.1**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Benzo(k)fluoranthene	NELAP	3.20	J	**2.0**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Chrysene	NELAP	3.20		**3.35**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	3.20	J	**0.61**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Fluoranthene	NELAP	3.20		**4.67**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Fluorene	NELAP	3.20	J	**0.34**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	3.20	J	**2.2**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Naphthalene	NELAP	3.20	J	**0.45**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Phenanthrene	NELAP	3.20	J	**2.1**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Pyrene	NELAP	3.20		**4.20**	mg/Kg-dry	5	7/26/04 7:15:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**85.0**	%REC	5	7/26/04 7:15:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**59.8**	%REC	5	7/26/04 7:15:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**110**	%REC	5	7/26/04 7:15:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.4		**4.6**	µg/Kg-dry	1	7/23/04 7:08:00 PM	HLR
Toluene	NELAP	6.8	J	**4.4**	µg/Kg-dry	1	7/23/04 7:08:00 PM	HLR
Ethylbenzene	NELAP	6.8	J	**3.2**	µg/Kg-dry	1	7/23/04 7:08:00 PM	HLR
Xylenes, Total	NELAP	6.8		**8.6**	µg/Kg-dry	1	7/23/04 7:08:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-010
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-1 (0-1)
Collection Date: 7/15/04 1:40:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**133**	%REC	1	7/23/04 7:08:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**67.4**	%REC	1	7/23/04 7:08:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**121**	%REC	1	7/23/04 7:08:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**90.9**	%REC	1	7/23/04 7:08:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.344**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0 63		**0.64**	mg/kg-dry	1	7/27/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.32**		1	7/19/04 1:37:00 PM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-011
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-10 (9-10)
Collection Date: 7/15/04 2:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**17.8**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**82.2**	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**15.2**	mg/Kg-dry	1	7/27/04 1:41:58 PM	JMW
Barium	NELAP	0.48		**55.2**	mg/Kg-dry	1	7/27/04 11:42:01 AM	SAM
Cadmium	NELAP	0.19		**0.45**	mg/Kg-dry	1	7/27/04 11:42:01 AM	SAM
Chromium	NELAP	0.96		**15.3**	mg/Kg-dry	1	7/26/04 4:36:10 PM	JMW
Lead	NELAP	3.85		**14.1**	mg/Kg-dry	1	7/27/04 11:42:01 AM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/27/04 11:42:01 AM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/27/04 11:42:01 AM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
1,2-Dichlorobenzene	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
1,3-Dichlorobenzene	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
1,4-Dichlorobenzene	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2,4,5-Trichlorophenol	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2,4,6-Trichlorophenol	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2,4-Dichlorophenol	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2,4-Dimethylphenol	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2,4-Dinitrophenol	NELAP	5.98		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2,4-Dinitrotoluene	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2,6-Dinitrotoluene	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2-Chloronaphthalene	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2-Chlorophenol	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2-Methylnaphthalene	NELAP	2.09		**6.67**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2-Nitroaniline	NELAP	5.98		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
2-Nitrophenol	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
3-Nitroaniline	NELAP	5.98		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	5.98		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
4-Chloro-3-methylphenol	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
4-Chloroaniline	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
4-Nitroaniline	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-011
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-10 (9-10)
Collection Date: 7/15/04 2:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Acenaphthene	NELAP	2.09		**9.11**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Acenaphthylene	NELAP	2.09	J	**1.6**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Anthracene	NELAP	2.09		**4.77**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Benzo(a)anthracene	NELAP	2.09		**2.46**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Benzo(a)pyrene	NELAP	2.09	J	**2.0**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Benzo(b)fluoranthene	NELAP	2.09	J	**1.4**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Benzo(g,h,i)perylene	NELAP	2.09	J	**0.85**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Benzo(k)fluoranthene	NELAP	2.09	J	**0.59**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	2.73		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	2.09	J	**1.7**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Butyl benzyl phthalate	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Carbazole		2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Chrysene	NELAP	2.09		**2.38**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Di-n-butyl phthalate	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Di-n-octyl phthalate	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Dibenzofuran	NELAP	2.09	J	**0.77**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Diethyl phthalate	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Dimethyl phthalate		2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Fluoranthene	NELAP	2.09		**4.97**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Fluorene	NELAP	2.09		**6.33**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Hexachlorobenzene	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Hexachlorobutadiene	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Hexachlorocyclopentadiene	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Hexachloroethane	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Isophorone	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
m,p-Cresol	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
N-Nitrosodiphenylamine	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Naphthalene	NELAP	2.09		**22.8**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Nitrobenzene	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
o-Cresol	NELAP	2.99		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Pentachlorophenol	NELAP	12.0		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-011
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-10 (9-10)
Collection Date: 7/15/04 2:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	2.09		**13.9**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Phenol	NELAP	2.09		**ND**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Pyrene	NELAP	2.99		**7.38**	mg/Kg-dry	5	7/23/04 12:26:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**79.1**	%REC	5	7/23/04 12:26:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**89.0**	%REC	5	7/23/04 12:26:00 PM	SML
Surr: 2-Fluorophenol		27-111		**81.9**	%REC	5	7/23/04 12:26:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**85.5**	%REC	5	7/23/04 12:26:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**95.5**	%REC	5	7/23/04 12:26:00 PM	SML
Surr: Phenol-d5		33.7-123		**98.7**	%REC	5	7/23/04 12:26:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
1,1,2-Trichloroethane	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
1,1-Dichloroethane	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
1,1-Dichloroethene	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
1,2-Dichloroethane	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
1,2-Dichloropropane	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
2-Butanone	NELAP	4210		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
2-Hexanone	NELAP	4210		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
4-Methyl-2-pentanone	NELAP	4210		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Acetone	NELAP	4210		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Benzene	NELAP	84.1		**1250**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Bromodichloromethane	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Bromoform	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Bromomethane	NELAP	841		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Carbon disulfide	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Carbon tetrachloride	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Chlorobenzene	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Chloroethane	NELAP	841		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Chloroform	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Chloromethane	NELAP	841		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	337		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Dibromochloromethane	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Ethylbenzene	NELAP	421		**1380**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Methyl tert-butyl ether	NELAP	168		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Methylene chloride	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-011
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-10 (9-10)
Collection Date: 7/15/04 2:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Tetrachloroethene	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Toluene	NELAP	421	J	**110**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	337		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Trichloroethene	NELAP	421		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Vinyl chloride	NELAP	168		**ND**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Xylenes, Total	NELAP	421		**3540**	µg/Kg-dry	50	7/20/04 6:35:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**101**	%REC	50	7/20/04 6:35:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**98.6**	%REC	50	7/20/04 6:35:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**95.2**	%REC	50	7/20/04 6:35:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	50	7/20/04 6:35:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.018**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		12		**ND**	mg/Kg-dry	1	7/23/04 6:51:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.78**		1	7/19/04 1:39:00 PM	EAW

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-13 (12-13)
Collection Date: 7/15/04 3:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.3**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.7**	%	1	7/22/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	137		**648 #**	mg/Kg-dry	25	7/21/04 6:42:00 AM	CJS
Kerosene	NELAP	137		**ND**	mg/Kg-dry	25	7/21/04 6:42:00 AM	CJS
Mineral Spirits	NELAP	137		**ND**	mg/Kg-dry	25	7/21/04 6:42:00 AM	CJS
Motor Oil	NELAP	137		**ND**	mg/Kg-dry	25	7/21/04 6:42:00 AM	CJS
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	25	7/21/04 6:42:00 AM	CJS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	2.75		**26.6**	mg/Kg-dry	5	7/26/04 1:20:00 AM	DMH
Acenaphthylene	NELAP	2.75		**3.34**	mg/Kg-dry	5	7/26/04 1:20:00 AM	DMH
Anthracene	NELAP	2.75		**11.4**	mg/Kg-dry	5	7/26/04 1:20:00 AM	DMH
Benzo(a)anthracene	NELAP	2.75		**5.32**	mg/Kg-dry	5	7/26/04 7:54:00 PM	DMH
Benzo(a)pyrene	NELAP	2.75		**5.54**	mg/Kg-dry	5	7/26/04 7:54:00 PM	DMH
Benzo(b)fluoranthene	NELAP	2.75		**3.93**	mg/Kg-dry	5	7/26/04 7:54:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	2.75	J	**1.5**	mg/Kg-dry	5	7/26/04 7:54:00 PM	DMH
Benzo(k)fluoranthene	NELAP	2.75	J	**1.2**	mg/Kg-dry	5	7/26/04 7:54:00 PM	DMH
Chrysene	NELAP	2.75		**5.89**	mg/Kg-dry	5	7/26/04 7:54:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	2.75	J	**0.43**	mg/Kg-dry	5	7/26/04 7:54:00 PM	DMH
Fluoranthene	NELAP	2.75		**9.38**	mg/Kg-dry	5	7/26/04 1:20:00 AM	DMH
Fluorene	NELAP	2.75		**15.2**	mg/Kg-dry	5	7/26/04 1:20:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	2.75	J	**1.3**	mg/Kg-dry	5	7/26/04 7:54:00 PM	DMH
Naphthalene	NELAP	2.75		**28.9**	mg/Kg-dry	5	7/26/04 1:20:00 AM	DMH
Phenanthrene	NELAP	2.75		**37.2**	mg/Kg-dry	5	7/26/04 1:20:00 AM	DMH
Pyrene	NELAP	2.75		**13.9**	mg/Kg-dry	5	7/26/04 1:20:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**70.1**	%REC	5	7/26/04 1:20:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**45.1**	%REC	5	7/26/04 1:20:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**79.9**	%REC	5	7/26/04 1:20:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	86.6		**204**	µg/Kg-dry	50	7/25/04 12:10:00 AM	HLR
Toluene	NELAP	433		**ND**	µg/Kg-dry	50	7/25/04 12:10:00 AM	HLR
Ethylbenzene	NELAP	433		**1600**	µg/Kg-dry	50	7/25/04 12:10:00 AM	HLR
Xylenes, Total	NELAP	433		**2060**	µg/Kg-dry	50	7/25/04 12:10:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**116**	%REC	50	7/25/04 12:10:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.5**	%REC	50	7/25/04 12:10:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070448	**Client Sample ID:**	B561-13 (12-13)
Lab ID:	04070448-012	**Collection Date:**	7/15/04 3:10:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**98.4**	%REC	50	7/25/04 12:10:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	50	7/25/04 12:10:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-013
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-19 (18-19)
Collection Date: 7/15/04 3:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**8.5**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**91.5**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.106	J	**0.020**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Acenaphthylene	NELAP	0.106		**ND**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Anthracene	NELAP	0.106	J	**0.016**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Benzo(a)anthracene	NELAP	0.106	J	**0.012**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Benzo(a)pyrene	NELAP	0.106		**ND**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.106		**ND**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.106		**ND**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.106		**ND**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Chrysene	NELAP	0.106	J	**0.013**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.106		**ND**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Fluoranthene	NELAP	0.106	J	**0.020**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Fluorene	NELAP	0.106	J	**0.018**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.106		**ND**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Naphthalene	NELAP	0.106		**0.106**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Phenanthrene	NELAP	0.106	J	**0.051**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Pyrene	NELAP	0.106	J	**0.029**	mg/Kg-dry	1	7/22/04 3:42:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**36.2**	%REC	1	7/22/04 3:42:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**26.6**	%REC	1	7/22/04 3:42:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**61.6**	%REC	1	7/22/04 3:42:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**3.3**	µg/Kg-dry	1	7/24/04 3:28:00 AM	HLR
Toluene	NELAP	3.8	J	**2.8**	µg/Kg-dry	1	7/24/04 3:28:00 AM	HLR
Ethylbenzene	NELAP	3.8		**3.9**	µg/Kg-dry	1	7/24/04 3:28:00 AM	HLR
Xylenes, Total	NELAP	3.8		**5.6**	µg/Kg-dry	1	7/24/04 3:28:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**117**	%REC	1	7/24/04 3:28:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**86.8**	%REC	1	7/24/04 3:28:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**102**	%REC	1	7/24/04 3:28:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**98.7**	%REC	1	7/24/04 3:28:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-014
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-32 (31-32)
Collection Date: 7/15/04 3:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**11.2**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**88.8**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Acenaphthylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Benzo(a)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Benzo(a)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Chrysene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Fluorene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Naphthalene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Phenanthrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 5:09:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**39.0**	%REC	1	7/22/04 5:09:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**19.3**	%REC	1	7/22/04 5:09:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**71.1**	%REC	1	7/22/04 5:09:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**1.5**	µg/Kg-dry	1	7/24/04 3:59:00 AM	HLR
Toluene	NELAP	3.9	J	**1.7**	µg/Kg-dry	1	7/24/04 3:59:00 AM	HLR
Ethylbenzene	NELAP	3.9		**ND**	µg/Kg-dry	1	7/24/04 3:59:00 AM	HLR
Xylenes, Total	NELAP	3.9	J	**1.7**	µg/Kg-dry	1	7/24/04 3:59:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**128**	%REC	1	7/24/04 3:59:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**70.9**	%REC	1	7/24/04 3:59:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**112**	%REC	1	7/24/04 3:59:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**87.5**	%REC	1	7/24/04 3:59:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-015
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B561-32D (31-32)
Collection Date: 7/15/04 3:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.5**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.5**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Acenaphthylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Benzo(a)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Benzo(a)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Chrysene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Fluorene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Naphthalene	NELAP	0.112	J	**0.020**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Phenanthrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/22/04 6:30:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**49.7**	%REC	1	7/22/04 6:30:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**30.5**	%REC	1	7/22/04 6:30:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**76.5**	%REC	1	7/22/04 6:30:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**1.4**	µg/Kg-dry	1	7/24/04 4:30:00 AM	HLR
Toluene	NELAP	4.1	J	**1.8**	µg/Kg-dry	1	7/24/04 4:30:00 AM	HLR
Ethylbenzene	NELAP	4.1		**ND**	µg/Kg-dry	1	7/24/04 4:30:00 AM	HLR
Xylenes, Total	NELAP	4.1	J	**1.8**	µg/Kg-dry	1	7/24/04 4:30:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**125**	%REC	1	7/24/04 4:30:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**72.1**	%REC	1	7/24/04 4:30:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**108**	%REC	1	7/24/04 4:30:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**89.3**	%REC	1	7/24/04 4:30:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-016
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B562-1 (0-1)
Collection Date: 7/15/04 4:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**23.7**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**76.3**	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**31.7**	mg/Kg-dry	1	7/26/04 4:45:12 PM	JMW
Barium	NELAP	0.50		**212**	mg/Kg-dry	1	7/27/04 11:57:54 AM	SAM
Cadmium	NELAP	0.20		**2.00**	mg/Kg-dry	1	7/27/04 11:57:54 AM	SAM
Chromium	NELAP	1.00		**19.1**	mg/Kg-dry	1	7/26/04 4:45:12 PM	JMW
Lead	NELAP	4.00		**390**	mg/Kg-dry	1	7/27/04 11:57:54 AM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	7/27/04 11:57:54 AM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	7/27/04 11:57:54 AM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.666	J	**0.076**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Acenaphthylene	NELAP	0.666	J	**0.51**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Anthracene	NELAP	0.666	J	**0.26**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Benzo(a)anthracene	NELAP	0.666		**1.38**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Benzo(a)pyrene	NELAP	0.666		**2.33**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.666		**3.66**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.666	J	**0.54**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.666		**1.36**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Chrysene	NELAP	0.666		**1.71**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.666	J	**0.18**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Fluoranthene	NELAP	0.666		**2.37**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Fluorene	NELAP	0.666	J	**0.093**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.666	J	**0.64**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Naphthalene	NELAP	0.666	J	**0.23**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Phenanthrene	NELAP	0.666		**0.855**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Pyrene	NELAP	0.666		**2.22**	mg/Kg-dry	5	7/27/04 1:25:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**57.8**	%REC	5	7/27/04 1:25:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**48.9**	%REC	5	7/27/04 1:25:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**66.8**	%REC	5	7/27/04 1:25:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.3		**8.7**	µg/Kg-dry	1	7/24/04 5:01:00 AM	HLR
Toluene	NELAP	6.5		**8.6**	µg/Kg-dry	1	7/24/04 5:01:00 AM	HLR
Ethylbenzene	NELAP	6.5	J	**3.7**	µg/Kg-dry	1	7/24/04 5:01:00 AM	HLR
Xylenes, Total	NELAP	6.5		**9.9**	µg/Kg-dry	1	7/24/04 5:01:00 AM	HLR

TEKLAB, INC.

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-016
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B562-1 (0-1)
Collection Date: 7/15/04 4:25:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**136**	%REC	1	7/24/04 5:01:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**65.2**	%REC	1	7/24/04 5:01:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**120**	%REC	1	7/24/04 5:01:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**90.6**	%REC	1	7/24/04 5:01:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.227**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.65		**0.81**	mg/kg-dry	1	7/27/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.56**		1	7/19/04 1:40:00 PM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-017
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B562-10 (9-10)
Collection Date: 7/15/04 4:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.4**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.6**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	6.33		**28.2**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Acenaphthylene	NELAP	6.33	J	**3.5**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Anthracene	NELAP	6.33		**13.8**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Benzo(a)anthracene	NELAP	6.33	J	**6.1**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Benzo(a)pyrene	NELAP	6.33	J	**6.1**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Benzo(b)fluoranthene	NELAP	6.33	J	**4.5**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	6.33	J	**1.6**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Benzo(k)fluoranthene	NELAP	6.33	J	**1.5**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Chrysene	NELAP	6.33	J	**6.0**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	6.33		**ND**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Fluoranthene	NELAP	6.33		**13.5**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Fluorene	NELAP	6.33		**18.5**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	6.33	J	**1.5**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Naphthalene	NELAP	6.33		**38.9**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Phenanthrene	NELAP	6.33		**45.0**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Pyrene	NELAP	6.33		**20.0**	mg/Kg-dry	50	7/26/04 9:11:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	50	7/26/04 9:11:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	50	7/26/04 9:11:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	50	7/26/04 9:11:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	53.7		**286**	µg/Kg-dry	25	7/25/04 12:41:00 AM	HLR
Toluene	NELAP	269		**726**	µg/Kg-dry	25	7/25/04 12:41:00 AM	HLR
Ethylbenzene	NELAP	269		**1590**	µg/Kg-dry	25	7/25/04 12:41:00 AM	HLR
Xylenes, Total	NELAP	269		**1660**	µg/Kg-dry	25	7/25/04 12:41:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**113**	%REC	25	7/25/04 12:41:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.7**	%REC	25	7/25/04 12:41:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**96.6**	%REC	25	7/25/04 12:41:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	25	7/25/04 12:41:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-018
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B562-14 (13-14)
Collection Date: 7/15/04 5:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		10.9	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		89.1	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		< 2.50	mg/Kg-dry	1	7/26/04 4:48:11 PM	JMW
Barium	NELAP	0.50		18.8	mg/Kg-dry	1	7/27/04 12:03:11 PM	SAM
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	7/27/04 12:03:11 PM	SAM
Chromium	NELAP	1.00		7.18	mg/Kg-dry	1	7/26/04 4:48:11 PM	JMW
Lead	NELAP	4.00		7.92	mg/Kg-dry	1	7/27/04 12:03:11 PM	SAM
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	7/27/04 12:03:11 PM	SAM
Silver	NELAP	1.00		< 1.00	mg/Kg-dry	1	7/27/04 12:03:11 PM	SAM
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	281		5190 #	mg/Kg-dry	50	7/23/04 2:05:00 PM	DMH
Kerosene	NELAP	281		ND	mg/Kg-dry	50	7/23/04 2:05:00 PM	DMH
Mineral Spirits	NELAP	281		ND	mg/Kg-dry	50	7/23/04 2:05:00 PM	DMH
Motor Oil	NELAP	281		1030 #	mg/Kg-dry	50	7/23/04 2:05:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	0	%REC	50	7/23/04 2:05:00 PM	DMH
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
1,2-Dichlorobenzene	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
1,3-Dichlorobenzene	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
1,4-Dichlorobenzene	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2,4,5-Trichlorophenol	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2,4,6-Trichlorophenol	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2,4-Dichlorophenol	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2,4-Dimethylphenol	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2,4-Dinitrophenol	NELAP	31.0		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2,4-Dinitrotoluene	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2,6-Dinitrotoluene	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2-Chloronaphthalene	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2-Chlorophenol	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2-Methylnaphthalene	NELAP	27.2		190	mg/Kg-dry	25	8/10/04 12:58:00 PM	SML
2-Nitroaniline	NELAP	31.0		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
2-Nitrophenol	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
3,3´-Dichlorobenzidine	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
3-Nitroaniline	NELAP	31.0		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-018
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B562-14 (13-14)
Collection Date: 7/15/04 5:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4,6-Dinitro-2-methylphenol	NELAP	31.0		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
4-Chloro-3-methylphenol	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
4-Chloroaniline	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
4-Nitroaniline	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
4-Nitrophenol	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Acenaphthene	NELAP	10.9		93.3	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Acenaphthylene	NELAP	10.9		12.0	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Anthracene	NELAP	10.9		51.6	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Benzo(a)anthracene	NELAP	10.9		26.5	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Benzo(a)pyrene	NELAP	10.9		21.8	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Benzo(b)fluoranthene	NELAP	10.9		17.5	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Benzo(g,h,i)perylene	NELAP	10.9	J	6.2	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Benzo(k)fluoranthene	NELAP	10.9	J	6.0	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	14.2		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Butyl benzyl phthalate	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Carbazole		15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Chrysene	NELAP	10.9		25.5	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Di-n-butyl phthalate	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Di-n-octyl phthalate	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Dibenzofuran	NELAP	10.9	J	8.8	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Diethyl phthalate	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Dimethyl phthalate		10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Fluoranthene	NELAP	10.9		54.1	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Fluorene	NELAP	10.9		65.6	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Hexachlorobenzene	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Hexachlorobutadiene	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Hexachlorocyclopentadiene	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Hexachloroethane	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	10.9	J	5.2	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Isophorone	NELAP	10.9		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
m,p-Cresol	NELAP	15.5		ND	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-018
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B562-14 (13-14)
Collection Date: 7/15/04 5:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
N-Nitroso-di-n-propylamine	NELAP	15.5		**ND**	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
N-Nitrosodiphenylamine	NELAP	15.5		**ND**	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Naphthalene	NELAP	27.2		**321**	mg/Kg-dry	25	8/10/04 12:58:00 PM	SML
Nitrobenzene	NELAP	15.5		**ND**	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
o-Cresol	NELAP	15.5		**ND**	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Pentachlorophenol	NELAP	62.1		**ND**	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Phenanthrene	NELAP	27.2		**174**	mg/Kg-dry	25	8/10/04 12:58:00 PM	SML
Phenol	NELAP	10.9		**ND**	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Pyrene	NELAP	15.5		**78.1**	mg/Kg-dry	10	7/23/04 2:23:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**67.1**	%REC	10	7/23/04 2:23:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**103**	%REC	10	7/23/04 2:23:00 PM	SML
Surr: 2-Fluorophenol		27-111		**77.8**	%REC	10	7/23/04 2:23:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**86.3**	%REC	10	7/23/04 2:23:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**108**	%REC	10	7/23/04 2:23:00 PM	SML
Surr: Phenol-d5		33.7-123		**95.3**	%REC	10	7/23/04 2:23:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
1,1,2-Trichloroethane	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
1,1-Dichloroethane	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
1,1-Dichloroethene	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
1,2-Dichloroethane	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
1,2-Dichloropropane	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
2-Butanone	NELAP	8310		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
2-Hexanone	NELAP	8310		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
4-Methyl-2-pentanone	NELAP	8310		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Acetone	NELAP	8310		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Benzene	NELAP	166		**6260**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Bromodichloromethane	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Bromoform	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Bromomethane	NELAP	1660		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Carbon disulfide	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Carbon tetrachloride	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Chlorobenzene	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Chloroethane	NELAP	1660		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Chloroform	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Chloromethane	NELAP	1660		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-018
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B562-14 (13-14)
Collection Date: 7/15/04 5:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
cis-1,2-Dichloroethene	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	665		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Dibromochloromethane	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Ethylbenzene	NELAP	4160		**58500**	µg/Kg-dry	500	7/21/04 11:31:00 PM	HLR
Methyl tert-butyl ether	NELAP	333		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Methylene chloride	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Styrene	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Tetrachloroethene	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Toluene	NELAP	831	J	**500**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	665		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Trichloroethene	NELAP	831		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Vinyl chloride	NELAP	333		**ND**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Xylenes, Total	NELAP	831		**54300**	µg/Kg-dry	100	7/20/04 7:06:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**102**	%REC	100	7/20/04 7:06:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**98.0**	%REC	100	7/20/04 7:06:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.1**	%REC	100	7/20/04 7:06:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	100	7/20/04 7:06:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.011	J	**0.007**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/23/04 7:07:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.15**		1	7/19/04 1:41:00 PM	EAW

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-019
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B562-28 (27-28)
Collection Date: 7/15/04 5:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**8.9**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**91.1**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.110	J	**0.014**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Acenaphthylene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Anthracene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Benzo(a)anthracene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Benzo(a)pyrene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Chrysene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Fluoranthene	NELAP	0.110	J	**0.012**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Fluorene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.110		**ND**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Naphthalene	NELAP	0.110	J	**0.041**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Phenanthrene	NELAP	0.110	J	**0.037**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Pyrene	NELAP	0.110	J	**0.019**	mg/Kg-dry	1	7/22/04 7:09:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**50.0**	%REC	1	7/22/04 7:09:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**32.6**	%REC	1	7/22/04 7:09:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**77.7**	%REC	1	7/22/04 7:09:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.7		**2.0**	µg/Kg-dry	1	7/24/04 6:04:00 AM	HLR
Toluene	NELAP	3.7		**4.1**	µg/Kg-dry	1	7/24/04 6:04:00 AM	HLR
Ethylbenzene	NELAP	3.7	J	**1.1**	µg/Kg-dry	1	7/24/04 6:04:00 AM	HLR
Xylenes, Total	NELAP	3.7	J	**3.6**	µg/Kg-dry	1	7/24/04 6:04:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72 8-122		**120**	%REC	1	7/24/04 6:04:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**80.5**	%REC	1	7/24/04 6:04:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**104**	%REC	1	7/24/04 6:04:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**96.2**	%REC	1	7/24/04 6:04:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-020
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B515-2 (1-2)
Collection Date: 7/16/04 8:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**15.3**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**84.7**	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.36		**11.5**	mg/Kg-dry	1	7/26/04 4:51:10 PM	JMW
Barium	NELAP	0.47		**136**	mg/Kg-dry	1	7/27/04 12:08:30 PM	SAM
Cadmium	NELAP	0.19		**0.36**	mg/Kg-dry	1	7/27/04 12:08:30 PM	SAM
Chromium	NELAP	0.94		**14.0**	mg/Kg-dry	1	7/26/04 4:51:10 PM	JMW
Lead	NELAP	3.77		**36.1**	mg/Kg-dry	1	7/27/04 12:08:30 PM	SAM
Selenium	NELAP	3.77		**< 3.77**	mg/Kg-dry	1	7/27/04 12:08:30 PM	SAM
Silver	NELAP	0.94		**< 0.94**	mg/Kg-dry	1	7/27/04 12:08:30 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.575		**1.14**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Acenaphthylene	NELAP	0.575		**1.93**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Anthracene	NELAP	0.575		**1.03**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Benzo(a)anthracene	NELAP	0.575		**2.20**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Benzo(a)pyrene	NELAP	0.575		**4.01**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.575		**4.45**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.575		**1.28**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.575		**1.31**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Chrysene	NELAP	0.575		**2.75**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.575	J	**0.35**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Fluoranthene	NELAP	0.575		**3.29**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Fluorene	NELAP	0.575		**0.717**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.575		**1.23**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Naphthalene	NELAP	0.575		**1.82**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Phenanthrene	NELAP	0.575		**3.32**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Pyrene	NELAP	0.575		**5.74**	mg/Kg-dry	5	7/25/04 8:09:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**56.8**	%REC	5	7/25/04 8:09:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**46.9**	%REC	5	7/25/04 8:09:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**75.0**	%REC	5	7/25/04 8:09:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		**4.3**	µg/Kg-dry	1	7/24/04 6:35:00 AM	HLR
Toluene	NELAP	4.6	J	**3.0**	µg/Kg-dry	1	7/24/04 6:35:00 AM	HLR
Ethylbenzene	NELAP	4.6		**21.3**	µg/Kg-dry	1	7/24/04 6:35:00 AM	HLR
Xylenes, Total	NELAP	4.6		**26.4**	µg/Kg-dry	1	7/24/04 6:35:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-020
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B515-2 (1-2)
Collection Date: 7/16/04 8:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**119**	%REC	1	7/24/04 6:35:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**85.8**	%REC	1	7/24/04 6:35:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**105**	%REC	1	7/24/04 6:35:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	1	7/24/04 6:35:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.091**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.54		**3.68**	mg/kg-dry	1	7/27/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.91**		1	7/19/04 1:42:00 PM	EAW

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-021
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B515-7 (6-7)
Collection Date: 7/16/04 8:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**32.1**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**67.9**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	20.8		**268**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Acenaphthylene	NELAP	20.8		**34.2**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Anthracene	NELAP	20.8		**103**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Benzo(a)anthracene	NELAP	20.8		**64.7**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Benzo(a)pyrene	NELAP	20.8		**88.2**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Benzo(b)fluoranthene	NELAP	20.8		**66.3**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	20.8		**25.9**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Benzo(k)fluoranthene	NELAP	20.8		**24.9**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Chrysene	NELAP	20.8		**73.8**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	20.8	J	**11**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Fluoranthene	NELAP	20.8		**148**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Fluorene	NELAP	20.8		**146**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	20.8		**26.7**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Naphthalene	NELAP	104		**509**	mg/Kg-dry	250	7/27/04 8:54:00 AM	DMH
Phenanthrene	NELAP	20.8		**341**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Pyrene	NELAP	20.8		**192**	mg/Kg-dry	50	7/26/04 5:56:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	50	7/26/04 5:56:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	50	7/26/04 5:56:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	50	7/26/04 5:56:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	317		**9030**	µg/Kg-dry	100	7/24/04 7:06:00 AM	HLR
Toluene	NELAP	1590		**2450**	µg/Kg-dry	100	7/24/04 7:06:00 AM	HLR
Ethylbenzene	NELAP	1590		**59100**	µg/Kg-dry	100	7/24/04 7:06:00 AM	HLR
Xylenes, Total	NELAP	1590		**40700**	µg/Kg-dry	100	7/24/04 7:06:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**117**	%REC	100	7/24/04 7:06:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**91.8**	%REC	100	7/24/04 7:06:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**102**	%REC	100	7/24/04 7:06:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.4**	%REC	100	7/24/04 7:06:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B515-19 (18-19)
Collection Date: 7/16/04 9:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**7.0**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**93.0**	%	1	7/22/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	134		**811 #**	mg/Kg-dry	25	7/21/04 6:14:00 AM	CJS
Kerosene	NELAP	134		**ND**	mg/Kg-dry	25	7/21/04 6:14:00 AM	CJS
Mineral Spirits	NELAP	134		**ND**	mg/Kg-dry	25	7/21/04 6:14:00 AM	CJS
Motor Oil	NELAP	134		**ND**	mg/Kg-dry	25	7/21/04 6:14:00 AM	CJS
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	25	7/21/04 6:14:00 AM	CJS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	5.51	J	**3.0**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Acenaphthylene	NELAP	5.51		**26.5**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Anthracene	NELAP	5.51		**11.0**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Benzo(a)anthracene	NELAP	5.51		**5.77**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Benzo(a)pyrene	NELAP	5.51		**6.48**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Benzo(b)fluoranthene	NELAP	5.51	J	**4.5**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	5.51	J	**2.1**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Benzo(k)fluoranthene	NELAP	5.51	J	**1.6**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Chrysene	NELAP	5.51		**5.93**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	5.51	J	**0.57**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Fluoranthene	NELAP	5.51		**12.9**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Fluorene	NELAP	5.51		**16.1**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	5.51	J	**1.9**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Naphthalene	NELAP	5.51		**86.0**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Phenanthrene	NELAP	5.51		**38.1**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Pyrene	NELAP	5.51		**19.7**	mg/Kg-dry	50	7/26/04 6:36:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	50	7/26/04 6:36:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	50	7/26/04 6:36:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	50	7/26/04 6:36:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	364		**29300**	µg/Kg-dry	250	7/24/04 7:37:00 AM	HLR
Toluene	NELAP	1820		**35100**	µg/Kg-dry	250	7/24/04 7:37:00 AM	HLR
Ethylbenzene	NELAP	1820		**5730**	µg/Kg-dry	250	7/24/04 7:37:00 AM	HLR
Xylenes, Total	NELAP	1820		**27600**	µg/Kg-dry	250	7/24/04 7:37:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**121**	%REC	250	7/24/04 7:37:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.1**	%REC	250	7/24/04 7:37:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070448	**Client Sample ID:**	B515-19 (18-19)
Lab ID:	04070448-022	**Collection Date:**	7/16/04 9:40:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**103**	%REC	250	7/24/04 7:37:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	250	7/24/04 7:37:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

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FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B515-32 (31-32)
Collection Date: 7/16/04 9:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**8.7**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**91.3**	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**7.64**	mg/Kg-dry	1	7/27/04 1:47:56 PM	JMW
Barium	NELAP	0.48		**13.3**	mg/Kg-dry	1	7/27/04 12:13:49 PM	SAM
Cadmium	NELAP	0.19		**0.23**	mg/Kg-dry	1	7/27/04 12:13:49 PM	SAM
Chromium	NELAP	0.96		**9.04**	mg/Kg-dry	1	7/26/04 4:54:09 PM	JMW
Lead	NELAP	3.85		**8.93**	mg/Kg-dry	1	7/27/04 12:13:49 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/27/04 12:13:49 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/27/04 12:13:49 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
1,2-Dichlorobenzene	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
1,3-Dichlorobenzene	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
1,4-Dichlorobenzene	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2,4,5-Trichlorophenol	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2,4,6-Trichlorophenol	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2,4-Dichlorophenol	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2,4-Dimethylphenol	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2,4-Dinitrophenol	NELAP	1.07		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2,4-Dinitrotoluene	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2,6-Dinitrotoluene	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2-Chloronaphthalene	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2-Chlorophenol	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2-Methylnaphthalene	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2-Nitroaniline	NELAP	1.07		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
2-Nitrophenol	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
3,3'-Dichlorobenzidine	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
3-Nitroaniline	NELAP	1.07		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
4,6-Dinitro-2-methylphenol	NELAP	1.07		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
4-Bromophenyl phenyl ether	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
4-Chloro-3-methylphenol	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
4-Chloroaniline	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
4-Chlorophenyl phenyl ether	NELAP	0.373		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
4-Nitroaniline	NELAP	0.533		**ND**	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B515-32 (31-32)
Collection Date: 7/16/04 9:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Acenaphthene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Acenaphthylene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Anthracene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Benzo(a)anthracene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Benzo(a)pyrene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Benzo(b)fluoranthene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Benzo(g,h,i)perylene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Benzo(k)fluoranthene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Bis(2-chloroethoxy)methane	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Bis(2-chloroethyl)ether	NELAP	0.486		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Bis(2-chloroisopropyl)ether	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.373		0.667	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Butyl benzyl phthalate	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Carbazole		0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Chrysene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Di-n-butyl phthalate	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Di-n-octyl phthalate	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Dibenzo(a,h)anthracene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Dibenzofuran	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Diethyl phthalate	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Dimethyl phthalate		0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Fluoranthene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Fluorene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Hexachlorobenzene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Hexachlorobutadiene	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Hexachlorocyclopentadiene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Hexachloroethane	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Indeno(1,2,3-cd)pyrene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Isophorone	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
m,p-Cresol	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
N-Nitroso-di-n-propylamine	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
N-Nitrosodiphenylamine	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Naphthalene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Nitrobenzene	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
o-Cresol	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Pentachlorophenol	NELAP	2.13		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B515-32 (31-32)
Collection Date: 7/16/04 9:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Phenol	NELAP	0.373		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Pyrene	NELAP	0.533		ND	mg/Kg-dry	1	7/23/04 6:37:00 AM	SML
Surr: 2,4,6-Tribromophenol		31-123		70.4	%REC	1	7/23/04 6:37:00 AM	SML
Surr: 2-Fluorobiphenyl		14.6-132		80.3	%REC	1	7/23/04 6:37:00 AM	SML
Surr: 2-Fluorophenol		27-111		77.5	%REC	1	7/23/04 6:37:00 AM	SML
Surr: Nitrobenzene-d5		28.9-113		80.9	%REC	1	7/23/04 6:37:00 AM	SML
Surr: p-Terphenyl-d14		25-144		86.5	%REC	1	7/23/04 6:37:00 AM	SML
Surr: Phenol-d5		33.7-123		93.2	%REC	1	7/23/04 6:37:00 AM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
1,1,2,2-Tetrachloroethane	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
1,1,2-Trichloroethane	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
1,1-Dichloroethane	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
1,1-Dichloroethene	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
1,2-Dichloroethane	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
1,2-Dichloropropane	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
2-Butanone	NELAP	36.0		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
2-Hexanone	NELAP	36.0		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
4-Methyl-2-pentanone	NELAP	36.0		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Acetone	NELAP	36.0	J	32	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Benzene	NELAP	0.7		2.0	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Bromodichloromethane	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Bromoform	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Bromomethane	NELAP	7.2		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Carbon disulfide	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Carbon tetrachloride	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Chlorobenzene	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Chloroethane	NELAP	7.2		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Chloroform	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Chloromethane	NELAP	7.2		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
cis-1,2-Dichloroethene	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
cis-1,3-Dichloropropene	NELAP	2.9		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Dibromochloromethane	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Ethylbenzene	NELAP	3.6	J	1.4	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Methyl tert-butyl ether	NELAP	1.4		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Methylene chloride	NELAP	3.6		ND	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B515-32 (31-32)
Collection Date: 7/16/04 9:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Tetrachloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Toluene	NELAP	3.6	J	**2.2**	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
trans-1,2-Dichloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
trans-1,3-Dichloropropene	NELAP	2.9		**ND**	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Trichloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Vinyl chloride	NELAP	1.4		**ND**	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Xylenes, Total	NELAP	3.6	J	**2.4**	µg/Kg-dry	1	7/20/04 7:38:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**119**	%REC	1	7/20/04 7:38:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**73.9**	%REC	1	7/20/04 7:38:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**111**	%REC	1	7/20/04 7:38:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**88.3**	%REC	1	7/20/04 7:38:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.010	J	**0.007**	mg/Kg-dry	1	7/22/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/23/04 2:17:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.89**		1	7/19/04 1:44:00 PM	EAW

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070448	**Client Sample ID:**	B505-Grab
Lab ID:	04070448-024	**Collection Date:**	7/16/04 9:30:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**5.8**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**94.2**	%	1	7/22/04	JRS
SW-846 9010, 9014								
Cyanide	NELAP	2.65		**39.6**	mg/kg-dry	5	7/27/04	ADH

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070448	**Client Sample ID:**	B560-3 (2-3)
Lab ID:	04070448-025	**Collection Date:**	7/16/04 10:40:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**19.2**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**80.8**	%	1	7/22/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**12.5**	mg/Kg-dry	1	7/27/04 2:21:55 PM	JMW
Barium	NELAP	0.48		**177**	mg/Kg-dry	1	7/27/04 12:19:08 PM	SAM
Cadmium	NELAP	0.19		**1.38**	mg/Kg-dry	1	7/27/04 12:19:08 PM	SAM
Chromium	NELAP	0.96		**16.7**	mg/Kg-dry	1	7/26/04 4:57:10 PM	JMW
Lead	NELAP	3.85		**110**	mg/Kg-dry	1	7/27/04 12:19:08 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	7/27/04 12:19:08 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	7/27/04 12:19:08 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.617	J	**0.18**	mg/Kg-dry	5	7/27/04 1:04:00 AM	DMH
Acenaphthylene	NELAP	0.617		**8.41**	mg/Kg-dry	5	7/27/04 1:04:00 AM	DMH
Anthracene	NELAP	0.617		**1.32**	mg/Kg-dry	5	7/27/04 1:04:00 AM	DMH
Benzo(a)anthracene	NELAP	0.617		**8.58**	mg/Kg-dry	5	7/27/04 1:04:00 AM	DMH
Benzo(a)pyrene	NELAP	6.17		**36.4**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Benzo(b)fluoranthene	NELAP	6.17		**27.0**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	6.17		**13.3**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Benzo(k)fluoranthene	NELAP	6.17		**7.89**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Chrysene	NELAP	6.17		**11.1**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	6.17	J	**4.2**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Fluoranthene	NELAP	6.17		**10.6**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Fluorene	NELAP	0.617		**0.978**	mg/Kg-dry	5	7/27/04 1:04:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	6.17		**11.8**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Naphthalene	NELAP	0.617		**1.89**	mg/Kg-dry	5	7/27/04 1:04:00 AM	DMH
Phenanthrene	NELAP	0.617		**3.02**	mg/Kg-dry	5	7/27/04 1:04:00 AM	DMH
Pyrene	NELAP	6.17		**32.4**	mg/Kg-dry	50	7/27/04 9:32:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**54.9**	%REC	5	7/27/04 1:04:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**42.7**	%REC	5	7/27/04 1:04:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**78.6**	%REC	5	7/27/04 1:04:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.1		**61.9**	µg/Kg-dry	1	7/24/04 8:09:00 AM	HLR
Toluene	NELAP	5.7		**12.6**	µg/Kg-dry	1	7/24/04 8:09:00 AM	HLR
Ethylbenzene	NELAP	5.7	J	**2.3**	µg/Kg-dry	1	7/24/04 8:09:00 AM	HLR
Xylenes, Total	NELAP	5.7		**6.7**	µg/Kg-dry	1	7/24/04 8:09:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-025
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B560-3 (2-3)
Collection Date: 7/16/04 10:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**141**	%REC	1	7/24/04 8:09:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**62.0**	%REC	1	7/24/04 8:09:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**128**	%REC	1	7/24/04 8:09:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**90.2**	%REC	1	7/24/04 8:09:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.210**	mg/Kg-dry	1	7/22/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.58		**2.47**	mg/kg-dry	1	7/27/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.62**		1	7/19/04 1:45:00 PM	EAW

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-026
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B560-5 (4-5)
Collection Date: 7/16/04 11:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.0**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**80.0**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	1.21	J	**0.38**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Acenaphthylene	NELAP	1.21		**6.06**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Anthracene	NELAP	1.21		**1.24**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Benzo(a)anthracene	NELAP	1.21		**7.20**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Benzo(a)pyrene	NELAP	6.03		**24.7**	mg/Kg-dry	25	7/27/04 10:11:00 AM	DMH
Benzo(b)fluoranthene	NELAP	6.03		**20.1**	mg/Kg-dry	25	7/27/04 10:11:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	1.21		**6.72**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.21		**7.54**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Chrysene	NELAP	1.21		**8.95**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.21		**1.73**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Fluoranthene	NELAP	1.21		**7.48**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Fluorene	NELAP	1.21	J	**0.55**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.21		**5.95**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Naphthalene	NELAP	1.21		**2.59**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Phenanthrene	NELAP	1.21		**3.15**	mg/Kg-dry	5	7/25/04 10:44:00 PM	DMH
Pyrene	NELAP	6.03		**22.7**	mg/Kg-dry	25	7/27/04 10:11:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**75.9**	%REC	5	7/25/04 10:44:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**72.9**	%REC	5	7/25/04 10:44:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**88.8**	%REC	5	7/25/04 10:44:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.0		**12.0**	µg/Kg-dry	1	7/24/04 8:40:00 AM	HLR
Toluene	NELAP	5.1	J	**3.9**	µg/Kg-dry	1	7/24/04 8:40:00 AM	HLR
Ethylbenzene	NELAP	5.1	J	**1.9**	µg/Kg-dry	1	7/24/04 8:40:00 AM	HLR
Xylenes, Total	NELAP	5.1	J	**3.9**	µg/Kg-dry	1	7/24/04 8:40:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**126**	%REC	1	7/24/04 8:40:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**74.9**	%REC	1	7/24/04 8:40:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**111**	%REC	1	7/24/04 8:40:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**97.1**	%REC	1	7/24/04 8:40:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-027
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B560-13 (12-13)
Collection Date: 7/16/04 11:15:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**16.8**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**83.2**	%	1	7/22/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	174		**2560 #**	mg/Kg-dry	5	7/23/04 2:34:00 PM	DMH
Kerosene	NELAP	174		**ND**	mg/Kg-dry	5	7/23/04 2:34:00 PM	DMH
Mineral Spirits	NELAP	174		**ND**	mg/Kg-dry	5	7/23/04 2:34:00 PM	DMH
Motor Oil	NELAP	174		**633 #**	mg/Kg-dry	5	7/23/04 2:34:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	**37.0**	%REC	5	7/23/04 2:34:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	17.7		**71.5**	mg/Kg-dry	50	7/27/04 10:49:00 AM	DMH
Acenaphthylene	NELAP	1.77		**6.33**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Anthracene	NELAP	17.7		**37.4**	mg/Kg-dry	50	7/27/04 10:49:00 AM	DMH
Benzo(a)anthracene	NELAP	1.77		**17.2**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Benzo(a)pyrene	NELAP	1.77		**21.7**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.77		**15.5**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.77		**4.85**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.77		**5.11**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Chrysene	NELAP	1.77		**17.6**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.77	J	**1.3**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Fluoranthene	NELAP	17.7		**41.2**	mg/Kg-dry	50	7/27/04 10:49:00 AM	DMH
Fluorene	NELAP	17.7		**44.1**	mg/Kg-dry	50	7/27/04 10:49:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.77		**4.43**	mg/Kg-dry	5	7/25/04 7:30:00 PM	DMH
Naphthalene	NELAP	17.7		**292**	mg/Kg-dry	50	7/27/04 10:49:00 AM	DMH
Phenanthrene	NELAP	17.7		**120**	mg/Kg-dry	50	7/27/04 10:49:00 AM	DMH
Pyrene	NELAP	17.7		**62.9**	mg/Kg-dry	50	7/27/04 10:49:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**70.9**	%REC	5	7/25/04 7:30:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**50.9**	%REC	5	7/25/04 7:30:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**78.8**	%REC	5	7/25/04 7:30:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	46.2		**86.8**	µg/Kg-dry	25	7/25/04 1:12:00 AM	HLR
Toluene	NELAP	231	J	**150**	µg/Kg-dry	25	7/25/04 1:12:00 AM	HLR
Ethylbenzene	NELAP	2310		**18600**	µg/Kg-dry	250	7/26/04 6:32:00 AM	HLR
Xylenes, Total	NELAP	231		**19100**	µg/Kg-dry	25	7/25/04 1:12:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**113**	%REC	25	7/25/04 1:12:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.9**	%REC	25	7/25/04 1:12:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070448	**Client Sample ID:**	B560-13 (12-13)
Lab ID:	04070448-027	**Collection Date:**	7/16/04 11:15:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**97.0**	%REC	25	7/25/04 1:12:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	25	7/25/04 1:12:00 AM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-028
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B560-20 (19-20)
Collection Date: 7/16/04 11:35:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.7**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.3**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.113	J	**0.014**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Acenaphthylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Anthracene	NELAP	0.113	J	**0.014**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Benzo(a)anthracene	NELAP	0.113	J	**0.019**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Benzo(a)pyrene	NELAP	0.113	J	**0.018**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.113	J	**0.015**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Chrysene	NELAP	0.113	J	**0.019**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Fluoranthene	NELAP	0.113	J	**0.029**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Fluorene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Naphthalene	NELAP	0.113	J	**0.057**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Phenanthrene	NELAP	0.113	J	**0.050**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Pyrene	NELAP	0.113	J	**0.044**	mg/Kg-dry	1	7/22/04 10:58:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**65.6**	%REC	1	7/22/04 10:58:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**48.1**	%REC	1	7/22/04 10:58:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**80.4**	%REC	1	7/22/04 10:58:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**10.4**	µg/Kg-dry	1	7/24/04 9:42:00 AM	HLR
Toluene	NELAP	3.9		**6.1**	µg/Kg-dry	1	7/24/04 9:42:00 AM	HLR
Ethylbenzene	NELAP	3.9	J	**2.1**	µg/Kg-dry	1	7/24/04 9:42:00 AM	HLR
Xylenes, Total	NELAP	3.9		**4.5**	µg/Kg-dry	1	7/24/04 9:42:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**131**	%REC	1	7/24/04 9:42:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**68.6**	%REC	1	7/24/04 9:42:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**114**	%REC	1	7/24/04 9:42:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**85.3**	%REC	1	7/24/04 9:42:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-029
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B560-20D (19-20)
Collection Date: 7/16/04 11:35:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**12.2**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**87.8**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.115	J	**0.028**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Acenaphthylene	NELAP	0.115		**ND**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Anthracene	NELAP	0.115	J	**0.027**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Benzo(a)anthracene	NELAP	0.115	J	**0.028**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Benzo(a)pyrene	NELAP	0.115	J	**0.030**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.115	J	**0.023**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.115	J	**0.015**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.115		**ND**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Chrysene	NELAP	0.115	J	**0.026**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.115		**ND**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Fluoranthene	NELAP	0.115	J	**0.043**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Fluorene	NELAP	0.115	J	**0.017**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.115		**ND**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Naphthalene	NELAP	0.115	J	**0.10**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Phenanthrene	NELAP	0.115	J	**0.085**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Pyrene	NELAP	0.115	J	**0.067**	mg/Kg-dry	1	7/23/04 12:09:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**63.0**	%REC	1	7/23/04 12:09:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**59.4**	%REC	1	7/23/04 12:09:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**71.9**	%REC	1	7/23/04 12:09:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**2.6**	µg/Kg-dry	1	7/24/04 10:13:00 AM	HLR
Toluene	NELAP	4.1	J	**2.0**	µg/Kg-dry	1	7/24/04 10:13:00 AM	HLR
Ethylbenzene	NELAP	4.1	J	**1.0**	µg/Kg-dry	1	7/24/04 10:13:00 AM	HLR
Xylenes, Total	NELAP	4.1	J	**1.6**	µg/Kg-dry	1	7/24/04 10:13:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**118**	%REC	1	7/24/04 10:13:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**81.5**	%REC	1	7/24/04 10:13:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**103**	%REC	1	7/24/04 10:13:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**97.8**	%REC	1	7/24/04 10:13:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070448
Lab ID: 04070448-030
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B560-28 (27-28)
Collection Date: 7/16/04 12:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**8.6**	%	1	7/22/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**91.4**	%	1	7/22/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.109	J	**0.065**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Acenaphthylene	NELAP	0.109	J	**0.011**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Anthracene	NELAP	0.109	J	**0.065**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Benzo(a)anthracene	NELAP	0.109	J	**0.068**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Benzo(a)pyrene	NELAP	0.109	J	**0.055**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.109	J	**0.051**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.109	J	**0.024**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.109	J	**0.012**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Chrysene	NELAP	0.109	J	**0.048**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.109		**ND**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Fluoranthene	NELAP	0.109	J	**0.091**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Fluorene	NELAP	0.109	J	**0.059**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.109	J	**0.016**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Naphthalene	NELAP	0.109		**0.197**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Phenanthrene	NELAP	0.109		**0.205**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Pyrene	NELAP	0.109		**0.136**	mg/Kg-dry	1	7/23/04 12:49:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**60.4**	%REC	1	7/23/04 12:49:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**43.4**	%REC	1	7/23/04 12:49:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**72.5**	%REC	1	7/23/04 12:49:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.7		**2.3**	µg/Kg-dry	1	7/24/04 10:44:00 AM	HLR
Toluene	NELAP	3.7	J	**2.8**	µg/Kg-dry	1	7/24/04 10:44:00 AM	HLR
Ethylbenzene	NELAP	3.7	J	**2.2**	µg/Kg-dry	1	7/24/04 10:44:00 AM	HLR
Xylenes, Total	NELAP	3.7		**3.9**	µg/Kg-dry	1	7/24/04 10:44:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**127**	%REC	1	7/24/04 10:44:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**72.7**	%REC	1	7/24/04 10:44:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**111**	%REC	1	7/24/04 10:44:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**89.6**	%REC	1	7/24/04 10:44:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

August 11, 2004

Jim Gould
Philip Environmental
210 West Sand Bank Road
Columbia, IL 622360230
TEL: (618) 281-7173
FAX: (618) 281-5120

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: A831-735002-012901-225/IP Champaign OrderNo. 04070635

Dear Jim Gould:

TEKLAB, INC received 52 samples on 7/23/04 12:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Philip Environmental
Project: A831-735002-012901-225/IP Champaign
LabOrder: 04070635
Report Date: August 11, 2004

CASE NARRATIVE

This is a revised report. The list of VOC (8260) and SVOC(8270) compounds has been revised according to IEPA Title 35, Subtitle G, Chapter I, Part 740, Appendix A. Please replace your original report for this work order with this revised report.

Analytical Comments for METHOD SV_OA2_S: SAMPLE 04070635-002A, -013A, -017A, -017AMS/MSD, -021A, -026A, -045A: Elevated reporting limit due to matrix interference. #: Unknown hydrocarbon. MS/MSD:Matrix spike was diluted out. SAMPLE 04070635-032A: #: Unknown hydrocarbon. SAMPLE 04070635-036A, -041A, -044A, -045A, -051A: Elevated reporting limit due to matrix interference. #: Unknown hydrocarbon. Surrogate was diluted out.

Analytical Comments for METHOD SV_8270S_S_SIMS: SAMPLE 04070635-002A, -006A, -011A, -015A -019A, -021A, -025A, -026A, -029A, -034A, -035A, -039A, -040A, -041A, -044A, -045A, -046A, -050A: Elevated reporting limit due to matrix interference. SAMPLE 04070635-002AMS/MSD: Elevated reporting limit due to matrix interference. Sample concentration was greater than 5 times the spike concentration. SAMPLE 04070635-013A, -020A, -026A, -043A, -051A: Elevated reporting limit due to matrix interference. Surrogate was diluted out. SAMPLE 04070635-029AMS/MSD: Elevated reporting limit due to matrix interference. Matrix spike recoveries exceeded QC limits because of sample composition.

Analytical Comments for METHOD SV_8270S_S: SAMPLE 04070635-001A, -012A, -017A, -024A, -031A, -030A, -036A, -048A, -049A: Elevated reporting limit due to matrix interference. SAMPLE 04070635-017AMS & 017AMSD: Elevated reporting limit due to matrix interference. Acenaphthene recovery exceeded QC limits because of sample composition.

Analytical Comments for METHOD V_BTEX_S: SAMPLE 04070635-002D, -013D, -020D, -025D, -026D, -032D, -035D, -038D, -040D: Elevated reporting limit due to matrix interference. SAMPLE 04070635-005D, -011D, -015D, -019D, -029D: Matrix interference present in sample.

Analytical Comments for METHOD V_8260S_S: SAMPLE 04070635-001D, -024D, -042D, -048D, -049D: Matrix interference present in sample. SAMPLE 04070635-007C, -012D, -036D: Elevated reporting limit due to matrix interference.

Analytical Comments for METHOD I_TCN_S_MT, SAMPLE 04070635-043A: Non-homogenious sample.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B558-2 (1-2')
Collection Date: 7/19/04 10:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.9**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.1**	%	1	7/26/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		**12.6**	mg/Kg-dry	1	8/4/04 11:12:12 AM	JMW
Barium	NELAP	0.49		**164**	mg/Kg-dry	1	8/2/04 4:45:22 PM	SAM
Cadmium	NELAP	0.20		**0.64**	mg/Kg-dry	1	8/2/04 4:45:22 PM	SAM
Chromium	NELAP	0.98		**16.9**	mg/Kg-dry	1	8/2/04 4:19:26 PM	JMW
Lead	NELAP	3.92		**48.6**	mg/Kg-dry	1	8/2/04 4:45:22 PM	SAM
Selenium	NELAP	3.92		**< 3.92**	mg/Kg-dry	1	8/2/04 4:45:22 PM	SAM
Silver	NELAP	0.98		**< 0.98**	mg/Kg-dry	1	8/2/04 4:45:22 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
1,2-Dichlorobenzene	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
1,3-Dichlorobenzene	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
1,4-Dichlorobenzene	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2,4,5-Trichlorophenol	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2,4,6-Trichlorophenol	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2,4-Dichlorophenol	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2,4-Dimethylphenol	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2,4-Dinitrophenol	NELAP	3.87		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2,4-Dinitrotoluene	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2,6-Dinitrotoluene	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2-Chloronaphthalene	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2-Chlorophenol	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2-Methylnaphthalene	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2-Nitroaniline	NELAP	3.87		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
2-Nitrophenol	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
3-Nitroaniline	NELAP	3.87		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	3.87		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
4-Chloro-3-methylphenol	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
4-Chloroaniline	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
4-Nitroaniline	NELAP	1.94		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML

TEKLAB, INC.

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B558-2 (1-2')
Collection Date: 7/19/04 10:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Acenaphthene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Acenaphthylene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Anthracene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Benzo(a)anthracene	NELAP	1.36	J	0.45	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Benzo(a)pyrene	NELAP	1.36	J	0.50	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Benzo(b)fluoranthene	NELAP	1.36	J	0.61	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Benzo(g,h,i)perylene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Benzo(k)fluoranthene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	1.77		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Butyl benzyl phthalate	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Carbazole		1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Chrysene	NELAP	1.36	J	0.45	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Di-n-butyl phthalate	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Di-n-octyl phthalate	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Dibenzofuran	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Diethyl phthalate	NELAP	1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Dimethyl phthalate		1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Fluoranthene	NELAP	1.36	J	0.69	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Fluorene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Hexachlorobenzene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Hexachlorobutadiene	NELAP	1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Hexachlorocyclopentadiene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Hexachloroethane	NELAP	1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Isophorone	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
m,p-Cresol	NELAP	1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
N-Nitrosodiphenylamine	NELAP	1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Naphthalene	NELAP	1.36		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Nitrobenzene	NELAP	1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
o-Cresol	NELAP	1.94		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Pentachlorophenol	NELAP	7.74		ND	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B558-2 (1-2')
Collection Date: 7/19/04 10:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Phenol	NELAP	1.36		**ND**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Pyrene	NELAP	1.94	J	**0.65**	mg/Kg-dry	1	7/30/04 6:14:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**65.5**	%REC	1	7/30/04 6:14:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**65.8**	%REC	1	7/30/04 6:14:00 PM	SML
Surr: 2-Fluorophenol		27-111		**52.2**	%REC	1	7/30/04 6:14:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**59.5**	%REC	1	7/30/04 6:14:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**72.8**	%REC	1	7/30/04 6:14:00 PM	SML
Surr: Phenol-d5		33.7-123		**63.6**	%REC	1	7/30/04 6:14:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
1,1,2-Trichloroethane	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
1,1-Dichloroethane	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
1,1-Dichloroethene	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
1,2-Dichloroethane	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
1,2-Dichloropropane	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
2-Butanone	NELAP	70.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
2-Hexanone	NELAP	70.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
4-Methyl-2-pentanone	NELAP	70.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Acetone	NELAP	70.0		**91.6**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Benzene	NELAP	1.4		**2.3**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Bromodichloromethane	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Bromoform	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Bromomethane	NELAP	14.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Carbon disulfide	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Carbon tetrachloride	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Chlorobenzene	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Chloroethane	NELAP	14.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Chloroform	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Chloromethane	NELAP	14.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	5.6		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Dibromochloromethane	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Ethylbenzene	NELAP	7.0	J	**4.5**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Methyl tert-butyl ether	NELAP	2.8		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Methylene chloride	NELAP	7.0	J	**1.5**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-001
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B558-2 (1-2')
Collection Date: 7/19/04 10:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Tetrachloroethene	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Toluene	NELAP	7.0		**7.2**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	5.6		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Trichloroethene	NELAP	7.0		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Vinyl chloride	NELAP	2.8		**ND**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Xylenes, Total	NELAP	7.0		**11.8**	µg/Kg-dry	1	8/1/04 1:00:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**115**	%REC	1	8/1/04 1:00:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**65.7**	%REC	1	8/1/04 1:00:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**122**	%REC	1	8/1/04 1:00:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**89.3**	%REC	1	8/1/04 1:00:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		**0.082**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/30/04 1:04:00 PM	SML
SW-846 9010, 9014								
Cyanide	NELAP	0.64		**1.37**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**6.65**		1	7/26/04 3:41:00 PM	JLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-002
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B558-7 (6-7')
Collection Date: 7/19/04 11:20:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**22.0**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.0**	%	1	7/26/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	65.5		**946 #**	mg/Kg-dry	10	7/27/04 11:05:00 AM	DMH
Kerosene	NELAP	65.5		**ND**	mg/Kg-dry	10	7/27/04 11:05:00 AM	DMH
Mineral Spirits	NELAP	65.5		**ND**	mg/Kg-dry	10	7/27/04 11:05:00 AM	DMH
Motor Oil	NELAP	65.5		**ND**	mg/Kg-dry	10	7/27/04 11:05:00 AM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**86.4**	%REC	10	7/27/04 11:05:00 AM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	1.27		**8.14**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Acenaphthylene	NELAP	1.27		**2.41**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Anthracene	NELAP	1.27		**6.82**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Benzo(a)anthracene	NELAP	1.27		**3.21**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Benzo(a)pyrene	NELAP	1.27		**3.49**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.27		**2.76**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.27	J	**0.93**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.27	J	**0.82**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Chrysene	NELAP	1.27		**3.14**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.27	J	**0.36**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Fluoranthene	NELAP	1.27		**7.34**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Fluorene	NELAP	1.27		**8.87**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.27	J	**0.86**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Naphthalene	NELAP	1.27		**ND**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Phenanthrene	NELAP	3.18		**21.6**	mg/Kg-dry	25	8/2/04 9:46:00 AM	DMH
Pyrene	NELAP	1.27		**11.5**	mg/Kg-dry	10	7/30/04 8:47:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**70.0**	%REC	10	7/30/04 8:47:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**55.9**	%REC	10	7/30/04 8:47:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**77.9**	%REC	10	7/30/04 8:47:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	24.5		**52.5**	µg/Kg-dry	12.5	7/30/04 2:25:00 AM	HLR
Toluene	NELAP	123		**134**	µg/Kg-dry	12.5	7/30/04 2:25:00 AM	HLR
Ethylbenzene	NELAP	123	J	**66**	µg/Kg-dry	12.5	7/30/04 2:25:00 AM	HLR
Xylenes, Total	NELAP	123		**221**	µg/Kg-dry	12.5	7/30/04 2:25:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**95.1**	%REC	12.5	7/30/04 2:25:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.9**	%REC	12.5	7/30/04 2:25:00 AM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B558-7 (6-7')
Lab ID:	04070635-002	**Collection Date:**	7/19/04 11:20:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**94.3**	%REC	12.5	7/30/04 2:25:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	12.5	7/30/04 2:25:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-003
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B558-12 (11-12')
Collection Date: 7/19/04 12:54:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**22.0**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.0**	%	1	7/26/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.125		**0.817**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Acenaphthylene	NELAP	0.125		**0.323**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Anthracene	NELAP	0.125		**0.191**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Benzo(a)anthracene	NELAP	0.125		**0.139**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Benzo(a)pyrene	NELAP	0.125		**0.129**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.125	J	**0.10**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.125	J	**0.047**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.125	J	**0.032**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Chrysene	NELAP	0.125		**0.139**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.125	J	**0.015**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Fluoranthene	NELAP	0.125		**0.433**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Fluorene	NELAP	0.125		**0.323**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.125	J	**0.039**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Naphthalene	NELAP	0.125	J	**0.028**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Phenanthrene	NELAP	0.624		**2.13**	mg/Kg-dry	5	7/29/04 1:19:00 PM	DMH
Pyrene	NELAP	0.125		**0.628**	mg/Kg-dry	1	7/28/04 10:07:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**63.0**	%REC	1	7/28/04 10:07:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**56.2**	%REC	1	7/28/04 10:07:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**76.9**	%REC	1	7/28/04 10:07:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.2		**9.5**	µg/Kg-dry	1	7/30/04 2:56:00 AM	HLR
Toluene	NELAP	5.9	J	**2.5**	µg/Kg-dry	1	7/30/04 2:56:00 AM	HLR
Ethylbenzene	NELAP	5.9	J	**5.0**	µg/Kg-dry	1	7/30/04 2:56:00 AM	HLR
Xylenes, Total	NELAP	5.9		**52.1**	µg/Kg-dry	1	7/30/04 2:56:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**111**	%REC	1	7/30/04 2:56:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**80.7**	%REC	1	7/30/04 2:56:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**114**	%REC	1	7/30/04 2:56:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**91.4**	%REC	1	7/30/04 2:56:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-004
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B558-18 (17-18')
Collection Date: 7/19/04 1:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.9**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.1**	%	1	7/26/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.108	J	**0.042**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Acenaphthylene	NELAP	0.108		**0.397**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Anthracene	NELAP	0.108	J	**0.019**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Benzo(a)anthracene	NELAP	0.108	J	**0.017**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Benzo(a)pyrene	NELAP	0.108	J	**0.015**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Chrysene	NELAP	0.108	J	**0.017**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Fluoranthene	NELAP	0.108	J	**0.029**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Fluorene	NELAP	0.108	J	**0.062**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Naphthalene	NELAP	0.539		**2.54**	mg/Kg-dry	5	7/29/04 1:57:00 PM	DMH
Phenanthrene	NELAP	0.108	J	**0.069**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Pyrene	NELAP	0.108	J	**0.044**	mg/Kg-dry	1	7/28/04 9:28:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**67.2**	%REC	1	7/28/04 9:28:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**57.2**	%REC	1	7/28/04 9:28:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**78.9**	%REC	1	7/28/04 9:28:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.7		**90.5**	µg/Kg-dry	1	7/30/04 3:27:00 AM	HLR
Toluene	NELAP	3.6		**71.3**	µg/Kg-dry	1	7/30/04 3:27:00 AM	HLR
Ethylbenzene	NELAP	3.6		**20.9**	µg/Kg-dry	1	7/30/04 3:27:00 AM	HLR
Xylenes, Total	NELAP	3.6		**82.1**	µg/Kg-dry	1	7/30/04 3:27:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**98.9**	%REC	1	7/30/04 3:27:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**85.4**	%REC	1	7/30/04 3:27:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**100**	%REC	1	7/30/04 3:27:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**95.8**	%REC	1	7/30/04 3:27:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-005
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B558-28 (27-28')
Collection Date: 7/19/04 1:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**7.5**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**92.5**	%	1	7/26/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.105	J	**0.012**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Acenaphthylene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Anthracene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Benzo(a)anthracene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Benzo(a)pyrene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Chrysene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Fluoranthene	NELAP	0.105	J	**0.015**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Fluorene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.105		**ND**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Naphthalene	NELAP	0.105	J	**0.031**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Phenanthrene	NELAP	0.105	J	**0.033**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Pyrene	NELAP	0.105	J	**0.022**	mg/Kg-dry	1	7/28/04 10:46:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**64.8**	%REC	1	7/28/04 10:46:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**51.7**	%REC	1	7/28/04 10:46:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**73.9**	%REC	1	7/28/04 10:46:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**1.6**	µg/Kg-dry	1	7/30/04 3:59:00 AM	HLR
Toluene	NELAP	4.1	J	**2.2**	µg/Kg-dry	1	7/30/04 3:59:00 AM	HLR
Ethylbenzene	NELAP	4.1	J	**1.0**	µg/Kg-dry	1	7/30/04 3:59:00 AM	HLR
Xylenes, Total	NELAP	4.1	J	**2.8**	µg/Kg-dry	1	7/30/04 3:59:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**107**	%REC	1	7/30/04 3:59:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**74.9**	%REC	1	7/30/04 3:59:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**109**	%REC	1	7/30/04 3:59:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**86.5**	%REC	1	7/30/04 3:59:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-006
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-3 (2-3')
Collection Date: 7/19/04 2:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		20.5	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		79.5	%	1	7/26/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.27		9.93	mg/Kg-dry	1	8/4/04 11:16:05 AM	JMW
Barium	NELAP	0.45		139	mg/Kg-dry	1	8/2/04 4:50:40 PM	SAM
Cadmium	NELAP	0.18	J	0.15	mg/Kg-dry	1	8/2/04 4:50:40 PM	SAM
Chromium	NELAP	0.91		16.0	mg/Kg-dry	1	8/2/04 4:22:24 PM	JMW
Lead	NELAP	3.64		56.7	mg/Kg-dry	1	8/2/04 4:50:40 PM	SAM
Selenium	NELAP	3.64		< 3.64	mg/Kg-dry	1	8/2/04 4:50:40 PM	SAM
Silver	NELAP	0.91		< 0.91	mg/Kg-dry	1	8/2/04 4:50:40 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.239		ND	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Acenaphthylene	NELAP	0.239		ND	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Anthracene	NELAP	0.239		ND	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Benzo(a)anthracene	NELAP	0.239	J	0.14	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Benzo(a)pyrene	NELAP	0.239	J	0.19	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.239		0.269	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.239	J	0.11	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.239	J	0.088	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Chrysene	NELAP	0.239	J	0.15	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.239	J	0.042	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Fluoranthene	NELAP	0.239	J	0.19	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Fluorene	NELAP	0.239		ND	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.239	J	0.11	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Naphthalene	NELAP	0.239	J	0.037	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Phenanthrene	NELAP	0.239	J	0.067	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Pyrene	NELAP	0.239	J	0.17	mg/Kg-dry	1	7/28/04 11:25:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		65.4	%REC	1	7/28/04 11:25:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		55.4	%REC	1	7/28/04 11:25:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		76.4	%REC	1	7/28/04 11:25:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.0	J	0.7	µg/Kg-dry	1	7/30/04 4:30:00 AM	HLR
Toluene	NELAP	5.2		ND	µg/Kg-dry	1	7/30/04 4:30:00 AM	HLR
Ethylbenzene	NELAP	5.2		ND	µg/Kg-dry	1	7/30/04 4:30:00 AM	HLR
Xylenes, Total	NELAP	5.2	J	2.0	µg/Kg-dry	1	7/30/04 4:30:00 AM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-006
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-3 (2-3')
Collection Date: 7/19/04 2:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**98.5**	%REC	1	7/30/04 4:30:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**99.8**	%REC	1	7/30/04 4:30:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**98.5**	%REC	1	7/30/04 4:30:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.8**	%REC	1	7/30/04 4:30:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		**0.058**	mg/Kg-dry	1	7/27/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.63	J	**0.46**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.12**		1	7/26/04 3:42:00 PM	JLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-007
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-8 (7-8')
Collection Date: 7/19/04 3:12:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.5**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.5**	%	1	7/26/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**14.5**	mg/Kg-dry	1	8/4/04 10:46:24 AM	JMW
Barium	NELAP	0.50		**226**	mg/Kg-dry	1	8/2/04 4:55:58 PM	SAM
Cadmium	NELAP	0.20		**0.54**	mg/Kg-dry	1	8/2/04 4:55:58 PM	SAM
Chromium	NELAP	1.00		**23.5**	mg/Kg-dry	1	8/2/04 4:25:22 PM	JMW
Lead	NELAP	4.00		**18.7**	mg/Kg-dry	1	8/2/04 4:55:58 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	8/2/04 4:55:58 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	8/2/04 4:55:58 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
1,2-Dichlorobenzene	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
1,3-Dichlorobenzene	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
1,4-Dichlorobenzene	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2,4,5-Trichlorophenol	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2,4,6-Trichlorophenol	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2,4-Dichlorophenol	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2,4-Dimethylphenol	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2,4-Dinitrophenol	NELAP	1.28		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2,4-Dinitrotoluene	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2,6-Dinitrotoluene	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2-Chloronaphthalene	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2-Chlorophenol	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2-Methylnaphthalene	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2-Nitroaniline	NELAP	1.28		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
2-Nitrophenol	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
3-Nitroaniline	NELAP	1.28		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	1.28		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
4-Chloro-3-methylphenol	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
4-Chloroaniline	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
4-Nitroaniline	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-007
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-8 (7-8')
Collection Date: 7/19/04 3:12:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Acenaphthene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Acenaphthylene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Anthracene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Benzo(a)anthracene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Benzo(a)pyrene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Benzo(b)fluoranthene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Benzo(g,h,i)perylene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Benzo(k)fluoranthene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	0.583		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.448	J	0.43	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Butyl benzyl phthalate	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Carbazole		0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Chrysene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Di-n-butyl phthalate	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Di-n-octyl phthalate	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Dibenzofuran	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Diethyl phthalate	NELAP	0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Dimethyl phthalate		0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Fluoranthene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Fluorene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Hexachlorobenzene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Hexachlorobutadiene	NELAP	0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Hexachlorocyclopentadiene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Hexachloroethane	NELAP	0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Isophorone	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
m,p-Cresol	NELAP	0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
N-Nitrosodiphenylamine	NELAP	0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Naphthalene	NELAP	0.448		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Nitrobenzene	NELAP	0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
o-Cresol	NELAP	0.640		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Pentachlorophenol	NELAP	2.56		ND	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-007
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-8 (7-8')
Collection Date: 7/19/04 3:12:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Phenol	NELAP	0.448		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Pyrene	NELAP	0.640		**ND**	mg/Kg-dry	1	7/30/04 3:03:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**79.8**	%REC	1	7/30/04 3:03:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**72.9**	%REC	1	7/30/04 3:03:00 PM	SML
Surr: 2-Fluorophenol		27-111		**75.1**	%REC	1	7/30/04 3:03:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**75.7**	%REC	1	7/30/04 3:03:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**86.4**	%REC	1	7/30/04 3:03:00 PM	SML
Surr: Phenol-d5		33.7-123		**87.8**	%REC	1	7/30/04 3:03:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
1,1,2-Trichloroethane	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
1,1-Dichloroethane	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
1,1-Dichloroethene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
1,2-Dichloroethane	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
1,2-Dichloropropane	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
2-Butanone	NELAP	1280	J	**460**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
2-Hexanone	NELAP	1280		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
4-Methyl-2-pentanone	NELAP	1280		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Acetone	NELAP	1280	J	**460**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Benzene	NELAP	25.6		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Bromodichloromethane	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Bromoform	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Bromomethane	NELAP	256		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Carbon disulfide	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Carbon tetrachloride	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Chlorobenzene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Chloroethane	NELAP	256		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Chloroform	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Chloromethane	NELAP	256		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	102		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Dibromochloromethane	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Ethylbenzene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Methyl tert-butyl ether	NELAP	51.1		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Methylene chloride	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR

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Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Tetrachloroethene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Toluene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	102		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Trichloroethene	NELAP	128		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Vinyl chloride	NELAP	51.1		**ND**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Xylenes, Total	NELAP	128	J	**46**	µg/Kg-dry	12.5	8/1/04 8:48:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**97.7**	%REC	12.5	8/1/04 8:48:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.9**	%REC	12.5	8/1/04 8:48:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**96.1**	%REC	12.5	8/1/04 8:48:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	12.5	8/1/04 8:48:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.049**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/30/04 1:20:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.20**		1	7/26/04 3:44:00 PM	JLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-008
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-8D (7-8')
Collection Date: 7/19/04 3:24:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.2**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**79.8**	%	1	7/26/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.36		**8.95**	mg/Kg-dry	1	8/4/04 11:24:53 AM	JMW
Barium	NELAP	0.47		**147**	mg/Kg-dry	1	8/2/04 5:01:00 PM	SAM
Cadmium	NELAP	0.19		**0.44**	mg/Kg-dry	1	8/2/04 5:01:00 PM	SAM
Chromium	NELAP	0.94		**24.2**	mg/Kg-dry	1	8/2/04 4:28:19 PM	JMW
Lead	NELAP	3.77		**20.6**	mg/Kg-dry	1	8/2/04 5:01:00 PM	SAM
Selenium	NELAP	3.77		**< 3.77**	mg/Kg-dry	1	8/2/04 5:01:00 PM	SAM
Silver	NELAP	0.94		**< 0.94**	mg/Kg-dry	1	8/2/04 5:01:00 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
1,2-Dichlorobenzene	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
1,3-Dichlorobenzene	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
1,4-Dichlorobenzene	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2,4,5-Trichlorophenol	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2,4,6-Trichlorophenol	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2,4-Dichlorophenol	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2,4-Dimethylphenol	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2,4-Dinitrophenol	NELAP	1.22		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2,4-Dinitrotoluene	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2,6-Dinitrotoluene	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2-Chloronaphthalene	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2-Chlorophenol	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2-Methylnaphthalene	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2-Nitroaniline	NELAP	1.22		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
2-Nitrophenol	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
3-Nitroaniline	NELAP	1.22		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	1.22		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
4-Chloro-3-methylphenol	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
4-Chloroaniline	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
4-Nitroaniline	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-008
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-8D (7-8')
Collection Date: 7/19/04 3:24:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Acenaphthene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Acenaphthylene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Anthracene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Benzo(a)anthracene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Benzo(a)pyrene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Benzo(b)fluoranthene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Benzo(g,h,i)perylene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Benzo(k)fluoranthene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	0.558		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.428	J	0.28	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Butyl benzyl phthalate	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Carbazole		0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Chrysene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Di-n-butyl phthalate	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Di-n-octyl phthalate	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Dibenzofuran	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Diethyl phthalate	NELAP	0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Dimethyl phthalate		0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Fluoranthene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Fluorene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Hexachlorobenzene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Hexachlorobutadiene	NELAP	0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Hexachlorocyclopentadiene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Hexachloroethane	NELAP	0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Isophorone	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
m,p-Cresol	NELAP	0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
N-Nitrosodiphenylamine	NELAP	0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Naphthalene	NELAP	0.428		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Nitrobenzene	NELAP	0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
o-Cresol	NELAP	0.612		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Pentachlorophenol	NELAP	2.45		ND	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-008
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-8D (7-8')
Collection Date: 7/19/04 3:24:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Phenol	NELAP	0.428		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Pyrene	NELAP	0.612		**ND**	mg/Kg-dry	1	7/30/04 3:41:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**80.3**	%REC	1	7/30/04 3:41:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**72.5**	%REC	1	7/30/04 3:41:00 PM	SML
Surr: 2-Fluorophenol		27-111		**74.4**	%REC	1	7/30/04 3:41:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**74.0**	%REC	1	7/30/04 3:41:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**85.3**	%REC	1	7/30/04 3:41:00 PM	SML
Surr: Phenol-d5		33.7-123		**87.0**	%REC	1	7/30/04 3:41:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
1,1,2-Trichloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
1,1-Dichloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
1,1-Dichloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
1,2-Dichloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
1,2-Dichloropropane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
2-Butanone	NELAP	47.6	J	**18**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
2-Hexanone	NELAP	47.6		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
4-Methyl-2-pentanone	NELAP	47.6		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Acetone	NELAP	47.6		**129**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Benzene	NELAP	1.0		**2.2**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Bromodichloromethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Bromoform	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Bromomethane	NELAP	9.5		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Carbon disulfide	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Carbon tetrachloride	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Chlorobenzene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Chloroethane	NELAP	9.5		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Chloroform	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Chloromethane	NELAP	9.5		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	3.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Dibromochloromethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Ethylbenzene	NELAP	4.8	J	**1.7**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Methyl tert-butyl ether	NELAP	1.9		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Methylene chloride	NELAP	4.8	J	**1.6**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-008
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-8D (7-8')
Collection Date: 7/19/04 3:24:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Tetrachloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Toluene	NELAP	4.8		**5.5**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	3.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Trichloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Vinyl chloride	NELAP	1.9		**ND**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Xylenes, Total	NELAP	4.8		**5.2**	µg/Kg-dry	1	8/1/04 1:31:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**106**	%REC	1	8/1/04 1:31:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**91.6**	%REC	1	8/1/04 1:31:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**106**	%REC	1	8/1/04 1:31:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	1	8/1/04 1:31:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.056**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/30/04 1:36:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.28**		1	7/26/04 3:45:00 PM	JLR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-009
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-19 (18-19')
Collection Date: 7/19/04 4:28:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.8**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.2**	%	1	7/26/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	5.44		**ND**	mg/Kg-dry	1	7/26/04 5:29:00 PM	DMH
Kerosene	NELAP	5.44		**ND**	mg/Kg-dry	1	7/26/04 5:29:00 PM	DMH
Mineral Spirits	NELAP	5.44		**ND**	mg/Kg-dry	1	7/26/04 5:29:00 PM	DMH
Motor Oil	NELAP	5.44		**ND**	mg/Kg-dry	1	7/26/04 5:29:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**95.9**	%REC	1	7/26/04 5:29:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Acenaphthylene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Anthracene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Benzo(a)anthracene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Benzo(a)pyrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Chrysene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Fluoranthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Fluorene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Naphthalene	NELAP	0.111	J	**0.013**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Phenanthrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Pyrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 12:04:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**57.8**	%REC	1	7/29/04 12:04:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**47.6**	%REC	1	7/29/04 12:04:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**69.7**	%REC	1	7/29/04 12:04:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**1.4**	µg/Kg-dry	1	7/30/04 5:02:00 AM	HLR
Toluene	NELAP	3.8	J	**2.1**	µg/Kg-dry	1	7/30/04 5:02:00 AM	HLR
Ethylbenzene	NELAP	3.8	J	**0.8**	µg/Kg-dry	1	7/30/04 5:02:00 AM	HLR
Xylenes, Total	NELAP	3.8	J	**2.2**	µg/Kg-dry	1	7/30/04 5:02:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**94.8**	%REC	1	7/30/04 5:02:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**82.8**	%REC	1	7/30/04 5:02:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B559-19 (18-19')
Lab ID:	04070635-009	**Collection Date:**	7/19/04 4:28:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	1	7/30/04 5:02:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**90.6**	%REC	1	7/30/04 5:02:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-010
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B559-28 (27-28')
Collection Date: 7/19/04 4:40:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**11.7**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**88.3**	%	1	7/26/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.112	J	**0.025**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Acenaphthylene	NELAP	0.112	J	**0.029**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Benzo(a)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Benzo(a)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Chrysene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Fluoranthene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Fluorene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Naphthalene	NELAP	0.112	J	**0.016**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Phenanthrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Pyrene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 12:43:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**58.8**	%REC	1	7/29/04 12:43:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**48.1**	%REC	1	7/29/04 12:43:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**73.3**	%REC	1	7/29/04 12:43:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.7		**0.9**	µg/Kg-dry	1	7/30/04 5:34:00 AM	HLR
Toluene	NELAP	3.6	J	**1.3**	µg/Kg-dry	1	7/30/04 5:34:00 AM	HLR
Ethylbenzene	NELAP	3.6		**ND**	µg/Kg-dry	1	7/30/04 5:34:00 AM	HLR
Xylenes, Total	NELAP	3.6	J	**1.3**	µg/Kg-dry	1	7/30/04 5:34:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**97.2**	%REC	1	7/30/04 5:34:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.6**	%REC	1	7/30/04 5:34:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.2**	%REC	1	7/30/04 5:34:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**97.2**	%REC	1	7/30/04 5:34:00 AM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-011
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B508-3 (2-3')
Collection Date: 7/19/04 5:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.7**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**79.3**	%	1	7/26/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**22.5**	mg/Kg-dry	1	8/4/04 10:54:11 AM	JMW
Barium	NELAP	0.48		**96.4**	mg/Kg-dry	1	8/2/04 5:16:07 PM	SAM
Cadmium	NELAP	0.19		**0.55**	mg/Kg-dry	1	8/2/04 5:16:07 PM	SAM
Chromium	NELAP	0.96		**13.2**	mg/Kg-dry	1	8/2/04 4:37:22 PM	JMW
Lead	NELAP	3.85		**49.8**	mg/Kg-dry	1	8/2/04 5:16:07 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	8/2/04 5:16:07 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	8/2/04 5:16:07 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	1.93	J	**0.39**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Acenaphthylene	NELAP	1.93		**5.39**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Anthracene	NELAP	1.93	J	**1.7**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Benzo(a)anthracene	NELAP	1.93		**5.92**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Benzo(a)pyrene	NELAP	1.93		**23.0**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.93		**18.6**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.93		**7.35**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.93		**4.47**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Chrysene	NELAP	1.93		**8.09**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.93	J	**1.8**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Fluoranthene	NELAP	1.93		**8.15**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Fluorene	NELAP	1.93	J	**0.75**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.93		**6.28**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Naphthalene	NELAP	1.93	J	**1.2**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Phenanthrene	NELAP	1.93		**2.90**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Pyrene	NELAP	1.93		**16.3**	mg/Kg-dry	5	7/29/04 5:10:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**58.9**	%REC	5	7/29/04 5:10:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**49.9**	%REC	5	7/29/04 5:10:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**65.9**	%REC	5	7/29/04 5:10:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.6		**28.2**	µg/Kg-dry	1	7/30/04 6:05:00 AM	HLR
Toluene	NELAP	8.2	J	**7.1**	µg/Kg-dry	1	7/30/04 6:05:00 AM	HLR
Ethylbenzene	NELAP	8.2	J	**1.8**	µg/Kg-dry	1	7/30/04 6:05:00 AM	HLR
Xylenes, Total	NELAP	8.2	J	**6.3**	µg/Kg-dry	1	7/30/04 6:05:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-011
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B508-3 (2-3')
Collection Date: 7/19/04 5:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**110**	%REC	1	7/30/04 6:05:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**68.7**	%REC	1	7/30/04 6:05:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**122**	%REC	1	7/30/04 6:05:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**87.2**	%REC	1	7/30/04 6:05:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.174**	mg/Kg-dry	1	7/27/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.60		**2.51**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.60**		1	7/26/04 4:02:00 PM	JLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B508-9 (8-9')
Collection Date: 7/19/04 5:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		20.1	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		79.9	%	1	7/26/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		13.0	mg/Kg-dry	1	8/4/04 10:56:16 AM	JMW
Barium	NELAP	0.48		126	mg/Kg-dry	1	8/2/04 5:21:26 PM	SAM
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	8/2/04 5:21:26 PM	SAM
Chromium	NELAP	0.96		21.9	mg/Kg-dry	1	8/2/04 4:40:21 PM	JMW
Lead	NELAP	3.85		17.9	mg/Kg-dry	1	8/2/04 5:21:26 PM	SAM
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	8/2/04 5:21:26 PM	SAM
Silver	NELAP	0.96		< 0.96	mg/Kg-dry	1	8/2/04 5:21:26 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
1,2-Dichlorobenzene	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
1,3-Dichlorobenzene	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
1,4-Dichlorobenzene	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2,4,5-Trichlorophenol	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2,4,6-Trichlorophenol	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2,4-Dichlorophenol	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2,4-Dimethylphenol	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2,4-Dinitrophenol	NELAP	31.8		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2,4-Dinitrotoluene	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2,6-Dinitrotoluene	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2-Chloronaphthalene	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2-Chlorophenol	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2-Methylnaphthalene	NELAP	11.1		75.9	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2-Nitroaniline	NELAP	31.8		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
2-Nitrophenol	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
3-Nitroaniline	NELAP	31.8		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	31.8		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
4-Chloro-3-methylphenol	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
4-Chloroaniline	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
4-Nitroaniline	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B508-9 (8-9')
Collection Date: 7/19/04 5:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Acenaphthene	NELAP	11.1		50.9	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Acenaphthylene	NELAP	11.1	J	5.8	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Anthracene	NELAP	11.1		22.3	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Benzo(a)anthracene	NELAP	11.1		11.8	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Benzo(a)pyrene	NELAP	11.1	J	10	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Benzo(b)fluoranthene	NELAP	11.1	J	7.9	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Benzo(g,h,i)perylene	NELAP	11.1	J	4.5	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Benzo(k)fluoranthene	NELAP	11.1	J	3.1	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	14.5		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Butyl benzyl phthalate	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Carbazole		15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Chrysene	NELAP	11.1	J	11	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Di-n-butyl phthalate	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Di-n-octyl phthalate	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Dibenzofuran	NELAP	11.1	J	4.1	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Diethyl phthalate	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Dimethyl phthalate		11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Fluoranthene	NELAP	11.1		23.1	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Fluorene	NELAP	11.1		29.5	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Hexachlorobenzene	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Hexachlorobutadiene	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Hexachlorocyclopentadiene	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Hexachloroethane	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	11.1	J	3.5	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Isophorone	NELAP	11.1		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
m,p-Cresol	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
N-Nitrosodiphenylamine	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Naphthalene	NELAP	11.1		143	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Nitrobenzene	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
o-Cresol	NELAP	15.9		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Pentachlorophenol	NELAP	63.5		ND	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B508-9 (8-9')
Collection Date: 7/19/04 5:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	11.1		**63.6**	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Phenol	NELAP	11.1		**ND**	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Pyrene	NELAP	15.9		**32.9**	mg/Kg-dry	25	8/2/04 5:54:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**82.7**	%REC	25	8/2/04 5:54:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**105**	%REC	25	8/2/04 5:54:00 PM	SML
Surr: 2-Fluorophenol		27-111		**90.3**	%REC	25	8/2/04 5:54:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**92.9**	%REC	25	8/2/04 5:54:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**105**	%REC	25	8/2/04 5:54:00 PM	SML
Surr: Phenol-d5		33.7-123		**105**	%REC	25	8/2/04 5:54:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
1,1,2-Trichloroethane	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
1,1-Dichloroethane	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
1,1-Dichloroethene	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
1,2-Dichloroethane	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
1,2-Dichloropropane	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
2-Butanone	NELAP	5200		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
2-Hexanone	NELAP	5200		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
4-Methyl-2-pentanone	NELAP	5200		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Acetone	NELAP	5200	J	**2500**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Benzene	NELAP	104		**2080**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Bromodichloromethane	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Bromoform	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Bromomethane	NELAP	1040		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Carbon disulfide	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Carbon tetrachloride	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Chlorobenzene	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Chloroethane	NELAP	1040		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Chloroform	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Chloromethane	NELAP	1040		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	416		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Dibromochloromethane	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Ethylbenzene	NELAP	2600		**33100**	µg/Kg-dry	250	8/1/04 12:41:00 PM	HLR
Methyl tert-butyl ether	NELAP	208		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Methylene chloride	NELAP	520	J	**200**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-012
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B508-9 (8-9')
Collection Date: 7/19/04 5:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Tetrachloroethene	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Toluene	NELAP	520		**575**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	416		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Trichloroethene	NELAP	520		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Vinyl chloride	NELAP	208		**ND**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Xylenes, Total	NELAP	520		**24300**	µg/Kg-dry	50	8/1/04 2:02:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**105**	%REC	50	8/1/04 2:02:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**94.6**	%REC	50	8/1/04 2:02:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**103**	%REC	50	8/1/04 2:02:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	50	8/1/04 2:02:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.036**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/30/04 1:52:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.60**		1	7/26/04 4:03:00 PM	JLR

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TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-013
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B508-11 (10-11')
Collection Date: 7/19/04 6:07:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.9**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.1**	%	1	7/26/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	64.7		**1510 #**	mg/Kg-dry	10	7/27/04 11:34:00 AM	DMH
Kerosene	NELAP	64.7		**ND**	mg/Kg-dry	10	7/27/04 11:34:00 AM	DMH
Mineral Spirits	NELAP	64.7		**ND**	mg/Kg-dry	10	7/27/04 11:34:00 AM	DMH
Motor Oil	NELAP	64.7		**ND**	mg/Kg-dry	10	7/27/04 11:34:00 AM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**96.6**	%REC	10	7/27/04 11:34:00 AM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	24.6		**47.7**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Acenaphthylene	NELAP	24.6	J	**8.1**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Anthracene	NELAP	18.4		**24.1**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Benzo(a)anthracene	NELAP	24.6	J	**13**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Benzo(a)pyrene	NELAP	24.6	J	**13**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Benzo(b)fluoranthene	NELAP	24.6	J	**11**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	24.6	J	**4.9**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Benzo(k)fluoranthene	NELAP	24.6	J	**3.3**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Chrysene	NELAP	24.6	J	**12**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	24.6		**ND**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Fluoranthene	NELAP	24.6		**27.0**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Fluorene	NELAP	24.6		**35.0**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	24.6	J	**4.3**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Naphthalene	NELAP	24.6		**193**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Phenanthrene	NELAP	24.6		**78.3**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Pyrene	NELAP	24.6		**38.8**	mg/Kg-dry	100	7/30/04 6:50:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	100	7/30/04 6:50:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	100	7/30/04 6:50:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	100	7/30/04 6:50:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	103		**2580**	µg/Kg-dry	50	7/30/04 6:37:00 AM	HLR
Toluene	NELAP	517	J	**220**	µg/Kg-dry	50	7/30/04 6:37:00 AM	HLR
Ethylbenzene	NELAP	3080		**37100**	µg/Kg-dry	250	8/1/04 7:45:00 AM	HLR
Xylenes, Total	NELAP	517		**19000**	µg/Kg-dry	50	7/30/04 6:37:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**94.4**	%REC	50	7/30/04 6:37:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**102**	%REC	50	7/30/04 6:37:00 AM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B508-11 (10-11')
Lab ID:	04070635-013	**Collection Date:**	7/19/04 6:07:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**95.1**	%REC	50	7/30/04 6:37:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	50	7/30/04 6:37:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-014
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B508-28 (27-28')
Collection Date: 7/19/04 6:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10**	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.0**	%	1	7/26/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Acenaphthylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Benzo(a)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Benzo(a)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Chrysene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Fluorene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Naphthalene	NELAP	0.113	J	**0.030**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Phenanthrene	NELAP	0.113	J	**0.019**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 1:23:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**53.4**	%REC	1	7/29/04 1:23:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**40.2**	%REC	1	7/29/04 1:23:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**75.1**	%REC	1	7/29/04 1:23:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**1.4**	µg/Kg-dry	1	7/30/04 7:09:00 AM	HLR
Toluene	NELAP	4.2	J	**1.7**	µg/Kg-dry	1	7/30/04 7:09:00 AM	HLR
Ethylbenzene	NELAP	4.2	J	**1.0**	µg/Kg-dry	1	7/30/04 7:09:00 AM	HLR
Xylenes, Total	NELAP	4.2	J	**1.7**	µg/Kg-dry	1	7/30/04 7:09:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**94.2**	%REC	1	7/30/04 7:09:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**94.0**	%REC	1	7/30/04 7:09:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.5**	%REC	1	7/30/04 7:09:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**98.1**	%REC	1	7/30/04 7:09:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-015
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B557-1 (0-1')
Collection Date: 7/20/04 8:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**18.8**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**81.2**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**9.68**	mg/Kg-dry	1	8/4/04 11:05:02 AM	JMW
Barium	NELAP	0.48		**102**	mg/Kg-dry	1	8/2/04 5:26:29 PM	SAM
Cadmium	NELAP	0.19		**0.59**	mg/Kg-dry	1	8/2/04 5:26:29 PM	SAM
Chromium	NELAP	0.96		**15.6**	mg/Kg-dry	1	8/2/04 4:49:19 PM	JMW
Lead	NELAP	3.85		**184**	mg/Kg-dry	1	8/2/04 5:26:29 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	8/2/04 5:26:29 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	8/2/04 5:26:29 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.388	J	**0.17**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Acenaphthylene	NELAP	0.388		**0.876**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Anthracene	NELAP	0.388		**0.616**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Benzo(a)anthracene	NELAP	0.388		**3.55**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Benzo(a)pyrene	NELAP	1.94		**5.24**	mg/Kg-dry	5	7/30/04 1:20:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.94		**6.00**	mg/Kg-dry	5	7/30/04 1:20:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.94		**2.66**	mg/Kg-dry	5	7/30/04 1:20:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.94	J	**1.9**	mg/Kg-dry	5	7/30/04 1:20:00 PM	DMH
Chrysene	NELAP	0.388		**3.82**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.94	J	**0.72**	mg/Kg-dry	5	7/30/04 1:20:00 PM	DMH
Fluoranthene	NELAP	0.388		**6.31**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Fluorene	NELAP	0.388	J	**0.11**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.94		**2.53**	mg/Kg-dry	5	7/30/04 1:20:00 PM	DMH
Naphthalene	NELAP	0.388		**0.982**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Phenanthrene	NELAP	0.388		**2.83**	mg/Kg-dry	1	7/29/04 6:27:00 PM	DMH
Pyrene	NELAP	1.94		**6.02**	mg/Kg-dry	5	7/30/04 1:20:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**59.3**	%REC	1	7/29/04 6:27:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**51.5**	%REC	1	7/29/04 6:27:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**72.2**	%REC	1	7/29/04 6:27:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.4		**5.3**	µg/Kg-dry	1	7/30/04 7:41:00 AM	HLR
Toluene	NELAP	7.1	J	**3.6**	µg/Kg-dry	1	7/30/04 7:41:00 AM	HLR
Ethylbenzene	NELAP	7.1	J	**2.1**	µg/Kg-dry	1	7/30/04 7:41:00 AM	HLR
Xylenes, Total	NELAP	7.1	J	**5.2**	µg/Kg-dry	1	7/30/04 7:41:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-015
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B557-1 (0-1')
Collection Date: 7/20/04 8:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**118**	%REC	1	7/30/04 7:41:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**66.1**	%REC	1	7/30/04 7:41:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**132**	%REC	1	7/30/04 7:41:00 AM	HLR
Surr: Toluene-d8		82.8-112.8	S	**79.9**	%REC	1	7/30/04 7:41:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.133**	mg/Kg-dry	1	7/27/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.58		**1.01**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.95**		1	7/26/04 4:05:00 PM	JLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-016
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B557-10 (9-10')
Collection Date: 7/20/04 9:15:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.7**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.3**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.127		**0.319**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Acenaphthylene	NELAP	0.127	J	**0.13**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Anthracene	NELAP	0.127		**0.183**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Benzo(a)anthracene	NELAP	0.127		**0.141**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Benzo(a)pyrene	NELAP	0.127		**0.163**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.127		**0.133**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.127	J	**0.054**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.127	J	**0.039**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Chrysene	NELAP	0.127		**0.142**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.127	J	**0.020**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Fluoranthene	NELAP	0.127		**0.334**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Fluorene	NELAP	0.127		**0.199**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.127	J	**0.048**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Naphthalene	NELAP	0.127	J	**0.014**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Phenanthrene	NELAP	0.127		**1.11**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Pyrene	NELAP	0.127		**0.499**	mg/Kg-dry	1	7/29/04 2:02:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**34.0**	%REC	1	7/29/04 2:02:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**35.8**	%REC	1	7/29/04 2:02:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**74.1**	%REC	1	7/29/04 2:02:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.1		**7.1**	µg/Kg-dry	1	7/30/04 8:12:00 AM	HLR
Toluene	NELAP	5.5	J	**2.0**	µg/Kg-dry	1	7/30/04 8:12:00 AM	HLR
Ethylbenzene	NELAP	5.5		**7.4**	µg/Kg-dry	1	7/30/04 8:12:00 AM	HLR
Xylenes, Total	NELAP	5.5		**13.4**	µg/Kg-dry	1	7/30/04 8:12:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**96.5**	%REC	1	7/30/04 8:12:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**99.1**	%REC	1	7/30/04 8:12:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.8**	%REC	1	7/30/04 8:12:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.6**	%REC	1	7/30/04 8:12:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B557-12 (11-12')
Lab ID:	04070635-017	**Collection Date:**	7/20/04 10:40:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**18.5**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**81.5**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**12.4**	mg/Kg-dry	1	8/4/04 11:06:58 AM	JMW
Barium	NELAP	0.50		**109**	mg/Kg-dry	1	8/2/04 5:31:46 PM	SAM
Cadmium	NELAP	0.20		**< 0.20**	mg/Kg-dry	1	8/2/04 5:31:46 PM	SAM
Chromium	NELAP	1.00		**23.3**	mg/Kg-dry	1	8/2/04 4:52:18 PM	JMW
Lead	NELAP	4.00		**19.1**	mg/Kg-dry	1	8/2/04 5:31:46 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	8/2/04 5:31:46 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	8/2/04 5:31:46 PM	SAM
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	62.0		**467 #**	mg/Kg-dry	10	7/27/04 12:02:00 PM	DMH
Kerosene	NELAP	62.0		**ND**	mg/Kg-dry	10	7/27/04 12:02:00 PM	DMH
Mineral Spirits	NELAP	62.0		**ND**	mg/Kg-dry	10	7/27/04 12:02:00 PM	DMH
Motor Oil	NELAP	62.0		**ND**	mg/Kg-dry	10	7/27/04 12:02:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**86.7**	%REC	10	7/27/04 12:02:00 PM	DMH
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	1.24		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
1,2-Dichlorobenzene	NELAP	1.24		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
1,3-Dichlorobenzene	NELAP	1.24		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
1,4-Dichlorobenzene	NELAP	1.24		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2,4,5-Trichlorophenol	NELAP	0.865		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2,4,6-Trichlorophenol	NELAP	0.865		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2,4-Dichlorophenol	NELAP	1.24		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2,4-Dimethylphenol	NELAP	1.24		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2,4-Dinitrophenol	NELAP	2.47		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2,4-Dinitrotoluene	NELAP	0.865		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2,6-Dinitrotoluene	NELAP	0.865		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2-Chloronaphthalene	NELAP	0.865		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2-Chlorophenol	NELAP	1.24		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2-Methylnaphthalene	NELAP	0.865		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2-Nitroaniline	NELAP	2.47		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
2-Nitrophenol	NELAP	0.865		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	0.865		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
3-Nitroaniline	NELAP	2.47		**ND**	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-017
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B557-12 (11-12')
Collection Date: 7/20/04 10:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4,6-Dinitro-2-methylphenol	NELAP	2.47		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
4-Chloro-3-methylphenol	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
4-Chloroaniline	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
4-Nitroaniline	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
4-Nitrophenol	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Acenaphthene	NELAP	0.865		6.22	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Acenaphthylene	NELAP	0.865		1.49	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Anthracene	NELAP	0.865		4.24	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Benzo(a)anthracene	NELAP	0.865		2.30	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Benzo(a)pyrene	NELAP	0.865		1.90	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Benzo(b)fluoranthene	NELAP	0.865		1.55	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Benzo(g,h,i)perylene	NELAP	0.865	J	0.50	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Benzo(k)fluoranthene	NELAP	0.865	J	0.45	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	1.13		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Butyl benzyl phthalate	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Carbazole		1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Chrysene	NELAP	0.865		2.09	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Di-n-butyl phthalate	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Di-n-octyl phthalate	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Dibenzofuran	NELAP	0.865	J	0.54	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Diethyl phthalate	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Dimethyl phthalate		0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Fluoranthene	NELAP	0.865		4.25	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Fluorene	NELAP	0.865		5.26	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Hexachlorobenzene	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Hexachlorobutadiene	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Hexachlorocyclopentadiene	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Hexachloroethane	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	0.865	J	0.41	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Isophorone	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
m,p-Cresol	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-017
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B557-12 (11-12')
Collection Date: 7/20/04 10:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
N-Nitroso-di-n-propylamine	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
N-Nitrosodiphenylamine	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Naphthalene	NELAP	0.865	J	0.45	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Nitrobenzene	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
o-Cresol	NELAP	1.24		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Pentachlorophenol	NELAP	4.94		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Phenanthrene	NELAP	0.865		11.5	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Phenol	NELAP	0.865		ND	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Pyrene	NELAP	1.24		6.40	mg/Kg-dry	1	7/30/04 6:53:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		73.5	%REC	1	7/30/04 6:53:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		73.1	%REC	1	7/30/04 6:53:00 PM	SML
Surr: 2-Fluorophenol		27-111		63.4	%REC	1	7/30/04 6:53:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		66.8	%REC	1	7/30/04 6:53:00 PM	SML
Surr: p-Terphenyl-d14		25-144		81.8	%REC	1	7/30/04 6:53:00 PM	SML
Surr: Phenol-d5		33.7-123		73.6	%REC	1	7/30/04 6:53:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
1,1,2-Trichloroethane	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
1,1-Dichloroethane	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
1,1-Dichloroethene	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
1,2-Dichloroethane	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
1,2-Dichloropropane	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
2-Butanone	NELAP	90.1		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
2-Hexanone	NELAP	90.1		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
4-Methyl-2-pentanone	NELAP	90.1		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Acetone	NELAP	90.1	J	67	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Benzene	NELAP	1.8		30.8	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Bromodichloromethane	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Bromoform	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Bromomethane	NELAP	18.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Carbon disulfide	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Carbon tetrachloride	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Chlorobenzene	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Chloroethane	NELAP	18.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Chloroform	NELAP	9.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Chloromethane	NELAP	18.0		ND	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-017
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B557-12 (11-12')
Collection Date: 7/20/04 10:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
cis-1,2-Dichloroethene	NELAP	9.0		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	7.2		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Dibromochloromethane	NELAP	9.0		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Ethylbenzene	NELAP	113		**1030**	µg/Kg-dry	12.5	8/1/04 1:13:00 PM	HLR
Methyl tert-butyl ether	NELAP	3.6		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Methylene chloride	NELAP	9.0		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Styrene	NELAP	9.0		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Tetrachloroethene	NELAP	9.0		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Toluene	NELAP	9.0		**9.9**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	9.0		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	7.2		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Trichloroethene	NELAP	9.0		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Vinyl chloride	NELAP	3.6		**ND**	µg/Kg-dry	1	8/1/04 2:34:00 AM	HLR
Xylenes, Total	NELAP	113		**532**	µg/Kg-dry	12.5	8/1/04 1:13:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	1	8/1/04 2:34:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**86.8**	%REC	1	8/1/04 2:34:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**104**	%REC	1	8/1/04 2:34:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**98.2**	%REC	1	8/1/04 2:34:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012	J	**0.009**	mg/Kg-dry	1	8/2/04	JMW
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		12		**ND**	mg/Kg-dry	1	7/30/04 5:05:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.80**		1	7/27/04 4:00:00 PM	JLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-018
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B557-24 (23-24')
Collection Date: 7/20/04 10:55:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**11.2**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**88.8**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.113	J	**0.023**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Acenaphthylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Anthracene	NELAP	0.113	J	**0.023**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Benzo(a)anthracene	NELAP	0.113	J	**0.017**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Benzo(a)pyrene	NELAP	0.113	J	**0.014**	mg/Kg-dry	1	7/29/04 2:36:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.113	J	**0.012**	mg/Kg-dry	1	7/29/04 2:36:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 2:36:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 2:36:00 PM	DMH
Chrysene	NELAP	0.113	J	**0.016**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 2:36:00 PM	DMH
Fluoranthene	NELAP	0.113	J	**0.027**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Fluorene	NELAP	0.113	J	**0.020**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 2:36:00 PM	DMH
Naphthalene	NELAP	0.113	J	**0.053**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Phenanthrene	NELAP	0.113	J	**0.070**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Pyrene	NELAP	0.113	J	**0.040**	mg/Kg-dry	1	7/29/04 5:55:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**47.9**	%REC	1	7/29/04 5:55:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**39.4**	%REC	1	7/29/04 5:55:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**66.0**	%REC	1	7/29/04 5:55:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.9		**0.9**	µg/Kg-dry	1	8/1/04 8:16:00 AM	HLR
Toluene	NELAP	4.3	J	**1.1**	µg/Kg-dry	1	8/1/04 8:16:00 AM	HLR
Ethylbenzene	NELAP	4.3		**ND**	µg/Kg-dry	1	8/1/04 8:16:00 AM	HLR
Xylenes, Total	NELAP	4.3	J	**1.2**	µg/Kg-dry	1	8/1/04 8:16:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	1	8/1/04 8:16:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.9**	%REC	1	8/1/04 8:16:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	1	8/1/04 8:16:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.5**	%REC	1	8/1/04 8:16:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-019
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-3 (2-3')
Collection Date: 7/20/04 12:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**25.5**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**74.5**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40	J	**2.2**	mg/Kg-dry	1	8/3/04 12:32:15 PM	JMW
Barium	NELAP	0.48		**59.8**	mg/Kg-dry	1	8/2/04 3:43:50 PM	SAM
Cadmium	NELAP	0.19	J	**0.13**	mg/Kg-dry	1	8/2/04 3:43:50 PM	SAM
Chromium	NELAP	0.96		**9.54**	mg/Kg-dry	1	8/2/04 5:01:22 PM	JMW
Lead	NELAP	3.85		**55.7**	mg/Kg-dry	1	8/2/04 3:43:50 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	8/2/04 3:43:50 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	8/2/04 3:43:50 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	1.96	J	**1.4**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Acenaphthylene	NELAP	1.96		**5.90**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Anthracene	NELAP	1.96		**4.44**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Benzo(a)anthracene	NELAP	1.96		**6.39**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Benzo(a)pyrene	NELAP	1.96		**17.7**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.96		**13.4**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.96		**6.11**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.96		**3.67**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Chrysene	NELAP	1.96		**7.88**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.96	J	**1.5**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Fluoranthene	NELAP	1.96		**9.16**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Fluorene	NELAP	1.96		**3.91**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.96		**5.29**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Naphthalene	NELAP	1.96		**5.27**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Phenanthrene	NELAP	1.96		**9.93**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Pyrene	NELAP	1.96		**18.3**	mg/Kg-dry	5	7/29/04 3:15:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**61.8**	%REC	5	7/29/04 3:15:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**56.9**	%REC	5	7/29/04 3:15:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**71.9**	%REC	5	7/29/04 3:15:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.6		**10.3**	µg/Kg-dry	1	7/30/04 8:07:00 PM	HLR
Toluene	NELAP	8.2		**26.2**	µg/Kg-dry	1	7/30/04 8:07:00 PM	HLR
Ethylbenzene	NELAP	8.2		**11.5**	µg/Kg-dry	1	7/30/04 8:07:00 PM	HLR
Xylenes, Total	NELAP	8.2		**41.6**	µg/Kg-dry	1	7/30/04 8:07:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-019
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-3 (2-3')
Collection Date: 7/20/04 12:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**111**	%REC	1	7/30/04 8:07:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**67.9**	%REC	1	7/30/04 8:07:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**121**	%REC	1	7/30/04 8:07:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**84.9**	%REC	1	7/30/04 8:07:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		**0.075**	mg/Kg-dry	1	7/27/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.66		**2.98**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**5.26**		1	7/26/04 4:07:00 PM	JLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B556-6 (5-6')
Lab ID:	04070635-020	**Collection Date:**	7/20/04 1:15:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**22.9**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**77.1**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	12.6		**63.9**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Acenaphthylene	NELAP	12.6	J	**4.2**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Anthracene	NELAP	12.6		**27.7**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Benzo(a)anthracene	NELAP	9.46		**12.1**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Benzo(a)pyrene	NELAP	9.46		**12.3**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Benzo(b)fluoranthene	NELAP	12.6	J	**8.7**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	12.6	J	**5.0**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Benzo(k)fluoranthene	NELAP	12.6	J	**2.4**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Chrysene	NELAP	12.6	J	**13**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	12.6	J	**1.3**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Fluoranthene	NELAP	12.6		**27.3**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Fluorene	NELAP	12.6		**26.4**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	12.6	J	**4.3**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Naphthalene	NELAP	12.6		**205**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Phenanthrene	NELAP	12.6		**90.0**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Pyrene	NELAP	12.6		**40.4**	mg/Kg-dry	100	7/30/04 10:45:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	100	7/30/04 10:45:00 AM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	100	7/30/04 10:45:00 AM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	100	7/30/04 10:45:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	206		**2770**	µg/Kg-dry	100	7/30/04 8:39:00 PM	HLR
Toluene	NELAP	1030		**ND**	µg/Kg-dry	100	7/30/04 8:39:00 PM	HLR
Ethylbenzene	NELAP	1030		**19900**	µg/Kg-dry	100	7/30/04 8:39:00 PM	HLR
Xylenes, Total	NELAP	1030		**12200**	µg/Kg-dry	100	7/30/04 8:39:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**98.1**	%REC	100	7/30/04 8:39:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**99.0**	%REC	100	7/30/04 8:39:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**98.1**	%REC	100	7/30/04 8:39:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	100	7/30/04 8:39:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-021
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-20 (19-20')
Collection Date: 7/20/04 2:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**11.9**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**88.1**	%	1	7/27/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	56.8		**1010 #**	mg/Kg-dry	10	7/27/04 12:31:00 PM	DMH
Kerosene	NELAP	56.8		**ND**	mg/Kg-dry	10	7/27/04 12:31:00 PM	DMH
Mineral Spirits	NELAP	56.8		**ND**	mg/Kg-dry	10	7/27/04 12:31:00 PM	DMH
Motor Oil	NELAP	56.8		**ND**	mg/Kg-dry	10	7/27/04 12:31:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**90.8**	%REC	10	7/27/04 12:31:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	1.14		**11.7**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Acenaphthylene	NELAP	28.6		**51.8**	mg/Kg-dry	250	7/30/04 11:23:00 AM	DMH
Anthracene	NELAP	21.4		**27.7**	mg/Kg-dry	250	7/30/04 11:23:00 AM	DMH
Benzo(a)anthracene	NELAP	1.14		**13.3**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Benzo(a)pyrene	NELAP	1.14		**17.3**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.14		**10.7**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.14		**3.01**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.14		**3.31**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Chrysene	NELAP	1.14		**13.5**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.14	J	**0.96**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Fluoranthene	NELAP	28.6		**30.5**	mg/Kg-dry	250	7/30/04 11:23:00 AM	DMH
Fluorene	NELAP	28.6		**30.9**	mg/Kg-dry	250	7/30/04 11:23:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.14		**2.82**	mg/Kg-dry	10	7/29/04 4:32:00 PM	DMH
Naphthalene	NELAP	28.6		**239**	mg/Kg-dry	250	7/30/04 11:23:00 AM	DMH
Phenanthrene	NELAP	28.6		**90.0**	mg/Kg-dry	250	7/30/04 11:23:00 AM	DMH
Pyrene	NELAP	28.6		**47.3**	mg/Kg-dry	250	7/30/04 11:23:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**61.8**	%REC	10	7/29/04 4:32:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**47.6**	%REC	10	7/29/04 4:32:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**81.7**	%REC	10	7/29/04 4:32:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	160		**3350**	µg/Kg-dry	100	7/31/04 3:32:00 AM	HLR
Toluene	NELAP	798		**10400**	µg/Kg-dry	100	7/31/04 3:32:00 AM	HLR
Ethylbenzene	NELAP	798		**4510**	µg/Kg-dry	100	7/31/04 3:32:00 AM	HLR
Xylenes, Total	NELAP	798		**13900**	µg/Kg-dry	100	7/31/04 3:32:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**90.4**	%REC	100	7/31/04 3:32:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**105**	%REC	100	7/31/04 3:32:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B556-20 (19-20')
Lab ID:	04070635-021	**Collection Date:**	7/20/04 2:15:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**94.7**	%REC	100	7/31/04 3:32:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.2**	%REC	100	7/31/04 3:32:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-28 (27-28')
Collection Date: 7/20/04 2:42:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.1**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.9**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.36		**3.69**	mg/Kg-dry	1	8/3/04 12:34:13 PM	JMW
Barium	NELAP	0.47		**17.2**	mg/Kg-dry	1	8/2/04 3:48:54 PM	SAM
Cadmium	NELAP	0.19		**< 0.19**	mg/Kg-dry	1	8/2/04 3:48:54 PM	SAM
Chromium	NELAP	0.94		**11.4**	mg/Kg-dry	1	8/2/04 5:04:20 PM	JMW
Lead	NELAP	3.77		**9.94**	mg/Kg-dry	1	8/2/04 3:48:54 PM	SAM
Selenium	NELAP	3.77		**< 3.77**	mg/Kg-dry	1	8/2/04 3:48:54 PM	SAM
Silver	NELAP	0.94		**< 0.94**	mg/Kg-dry	1	8/2/04 3:48:54 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
1,2-Dichlorobenzene	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
1,3-Dichlorobenzene	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
1,4-Dichlorobenzene	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2,4,5-Trichlorophenol	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2,4,6-Trichlorophenol	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2,4-Dichlorophenol	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2,4-Dimethylphenol	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2,4-Dinitrophenol	NELAP	1.07		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2,4-Dinitrotoluene	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2,6-Dinitrotoluene	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2-Chloronaphthalene	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2-Chlorophenol	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2-Methylnaphthalene	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2-Nitroaniline	NELAP	1.07		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
2-Nitrophenol	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
3-Nitroaniline	NELAP	1.07		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	1.07		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
4-Chloro-3-methylphenol	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
4-Chloroaniline	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
4-Nitroaniline	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-28 (27-28')
Collection Date: 7/20/04 2:42:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Acenaphthene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Acenaphthylene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Anthracene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Benzo(a)anthracene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Benzo(a)pyrene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Benzo(b)fluoranthene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Benzo(g,h,i)perylene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Benzo(k)fluoranthene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	0.489		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.375	J	0.25	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Butyl benzyl phthalate	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Carbazole		0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Chrysene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Di-n-butyl phthalate	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Di-n-octyl phthalate	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Dibenzofuran	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Diethyl phthalate	NELAP	0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Dimethyl phthalate		0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Fluoranthene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Fluorene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Hexachlorobenzene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Hexachlorobutadiene	NELAP	0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Hexachlorocyclopentadiene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Hexachloroethane	NELAP	0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Isophorone	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
m,p-Cresol	NELAP	0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
N-Nitrosodiphenylamine	NELAP	0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Naphthalene	NELAP	0.375		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Nitrobenzene	NELAP	0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
o-Cresol	NELAP	0.536		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Pentachlorophenol	NELAP	2.15		ND	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-28 (27-28')
Collection Date: 7/20/04 2:42:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Phenol	NELAP	0.375		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Pyrene	NELAP	0.536		**ND**	mg/Kg-dry	1	7/30/04 4:19:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**81.2**	%REC	1	7/30/04 4:19:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**84.4**	%REC	1	7/30/04 4:19:00 PM	SML
Surr: 2-Fluorophenol		27-111		**78.2**	%REC	1	7/30/04 4:19:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**80.4**	%REC	1	7/30/04 4:19:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**86.6**	%REC	1	7/30/04 4:19:00 PM	SML
Surr: Phenol-d5		33.7-123		**91.0**	%REC	1	7/30/04 4:19:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
1,1,2-Trichloroethane	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
1,1-Dichloroethane	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
1,1-Dichloroethene	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
1,2-Dichloroethane	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
1,2-Dichloropropane	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
2-Butanone	NELAP	39.0		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
2-Hexanone	NELAP	39.0		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
4-Methyl-2-pentanone	NELAP	39.0		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Acetone	NELAP	39.0	J	**31**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Benzene	NELAP	0.8		**2.1**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Bromodichloromethane	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Bromoform	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Bromomethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Carbon disulfide	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Carbon tetrachloride	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Chlorobenzene	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Chloroethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Chloroform	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Chloromethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	3.1		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Dibromochloromethane	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Ethylbenzene	NELAP	3.9	J	**2.3**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Methyl tert-butyl ether	NELAP	1.6		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Methylene chloride	NELAP	3.9	J	**1.1**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-022
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-28 (27-28')
Collection Date: 7/20/04 2:42:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Tetrachloroethene	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Toluene	NELAP	3.9		**5.0**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	3.1		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Trichloroethene	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Vinyl chloride	NELAP	1.6		**ND**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Xylenes, Total	NELAP	3.9		**4.6**	µg/Kg-dry	1	8/1/04 3:05:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	1	8/1/04 3:05:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**76.7**	%REC	1	8/1/04 3:05:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**105**	%REC	1	8/1/04 3:05:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**90.3**	%REC	1	8/1/04 3:05:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.011	J	**0.008**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/30/04 2:08:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.15**		1	7/27/04 3:09:00 PM	JLR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-28D (27-28')
Collection Date: 7/20/04 2:47:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.2**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.8**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.31	J	**2.2**	mg/Kg-dry	1	8/3/04 12:10:06 PM	JMW
Barium	NELAP	0.46		**16.8**	mg/Kg-dry	1	8/2/04 3:54:12 PM	SAM
Cadmium	NELAP	0.19		**< 0.19**	mg/Kg-dry	1	8/2/04 3:54:12 PM	SAM
Chromium	NELAP	0.93		**11.2**	mg/Kg-dry	1	8/2/04 5:08:18 PM	JMW
Lead	NELAP	3.70		**9.49**	mg/Kg-dry	1	8/2/04 3:54:12 PM	SAM
Selenium	NELAP	3.70		**< 3.70**	mg/Kg-dry	1	8/2/04 3:54:12 PM	SAM
Silver	NELAP	0.93		**< 0.93**	mg/Kg-dry	1	8/2/04 3:54:12 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
1,2-Dichlorobenzene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
1,3-Dichlorobenzene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
1,4-Dichlorobenzene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2,4,5-Trichlorophenol	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2,4,6-Trichlorophenol	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2,4-Dichlorophenol	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2,4-Dimethylphenol	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2,4-Dinitrophenol	NELAP	1.11		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2,4-Dinitrotoluene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2,6-Dinitrotoluene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2-Chloronaphthalene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2-Chlorophenol	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2-Methylnaphthalene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2-Nitroaniline	NELAP	1.11		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
2-Nitrophenol	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
3-Nitroaniline	NELAP	1.11		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	1.11		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
4-Chloro-3-methylphenol	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
4-Chloroaniline	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
4-Nitroaniline	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-28D (27-28')
Collection Date: 7/20/04 2:47:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Acenaphthene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Acenaphthylene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Anthracene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Benzo(a)anthracene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Benzo(a)pyrene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Benzo(b)fluoranthene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Benzo(g,h,i)perylene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Benzo(k)fluoranthene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	0.505		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.387	J	0.23	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Butyl benzyl phthalate	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Carbazole		0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Chrysene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Di-n-butyl phthalate	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Di-n-octyl phthalate	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Dibenzofuran	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Diethyl phthalate	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Dimethyl phthalate		0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Fluoranthene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Fluorene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Hexachlorobenzene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Hexachlorobutadiene	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Hexachlorocyclopentadiene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Hexachloroethane	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Isophorone	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
m,p-Cresol	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
N-Nitrosodiphenylamine	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Naphthalene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Nitrobenzene	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
o-Cresol	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Pentachlorophenol	NELAP	2.21		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-28D (27-28')
Collection Date: 7/20/04 2:47:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Phenol	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Pyrene	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 4:58:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		82.3	%REC	1	7/30/04 4:58:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		84.9	%REC	1	7/30/04 4:58:00 PM	SML
Surr: 2-Fluorophenol		27-111		78.5	%REC	1	7/30/04 4:58:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		80.0	%REC	1	7/30/04 4:58:00 PM	SML
Surr: p-Terphenyl-d14		25-144		88.1	%REC	1	7/30/04 4:58:00 PM	SML
Surr: Phenol-d5		33.7-123		90.2	%REC	1	7/30/04 4:58:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
1,1,2-Trichloroethane	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
1,1-Dichloroethane	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
1,1-Dichloroethene	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
1,2-Dichloroethane	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
1,2-Dichloropropane	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
2-Butanone	NELAP	36.4		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
2-Hexanone	NELAP	36.4		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
4-Methyl-2-pentanone	NELAP	36.4		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Acetone	NELAP	36.4	J	26	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Benzene	NELAP	0.7		1.1	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Bromodichloromethane	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Bromoform	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Bromomethane	NELAP	7.3		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Carbon disulfide	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Carbon tetrachloride	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Chlorobenzene	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Chloroethane	NELAP	7.3		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Chloroform	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Chloromethane	NELAP	7.3		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	2.9		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Dibromochloromethane	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Ethylbenzene	NELAP	3.6	J	0.8	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Methyl tert-butyl ether	NELAP	1.5		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Methylene chloride	NELAP	3.6		ND	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-023
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B556-28D (27-28')
Collection Date: 7/20/04 2:47:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	3.6		**ND**	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Tetrachloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Toluene	NELAP	3.6	J	**2.3**	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	2.9		**ND**	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Trichloroethene	NELAP	3.6		**ND**	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Vinyl chloride	NELAP	1.5		**ND**	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Xylenes, Total	NELAP	3.6	J	**2.2**	µg/Kg-dry	1	8/1/04 3:36:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	1	8/1/04 3:36:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**90.7**	%REC	1	8/1/04 3:36:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	1	8/1/04 3:36:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.2**	%REC	1	8/1/04 3:36:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.011	J	**0.009**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/30/04 2:24:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.23**		1	7/27/04 3:12:00 PM	JLR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-024
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B550-3 (2-3')
Collection Date: 7/20/04 4:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**29.0**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**71.0**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**11.6**	mg/Kg-dry	1	8/3/04 12:12:03 PM	JMW
Barium	NELAP	0.50		**45.6**	mg/Kg-dry	1	8/2/04 3:59:29 PM	SAM
Cadmium	NELAP	0.20		**2.04**	mg/Kg-dry	1	8/2/04 3:59:29 PM	SAM
Chromium	NELAP	1.00		**22.3**	mg/Kg-dry	1	8/2/04 5:11:17 PM	JMW
Lead	NELAP	4.00		**32.1**	mg/Kg-dry	1	8/2/04 3:59:29 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	8/2/04 3:59:29 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	8/2/04 3:59:29 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
1,2-Dichlorobenzene	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
1,3-Dichlorobenzene	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
1,4-Dichlorobenzene	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2,4,5-Trichlorophenol	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2,4,6-Trichlorophenol	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2,4-Dichlorophenol	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2,4-Dimethylphenol	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2,4-Dinitrophenol	NELAP	98.6		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2,4-Dinitrotoluene	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2,6-Dinitrotoluene	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2-Chloronaphthalene	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2-Chlorophenol	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2-Methylnaphthalene	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2-Nitroaniline	NELAP	98.6		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
2-Nitrophenol	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
3,3´-Dichlorobenzidine	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
3-Nitroaniline	NELAP	98.6		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	98.6		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
4-Chloro-3-methylphenol	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
4-Chloroaniline	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
4-Nitroaniline	NELAP	49.3		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-024
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B550-3 (2-3')
Collection Date: 7/20/04 4:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Acenaphthene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Acenaphthylene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Anthracene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Benzo(a)anthracene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Benzo(a)pyrene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Benzo(b)fluoranthene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Benzo(g,h,i)perylene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Benzo(k)fluoranthene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	45.0		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Butyl benzyl phthalate	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Carbazole		49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Chrysene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Di-n-butyl phthalate	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Di-n-octyl phthalate	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Dibenzofuran	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Diethyl phthalate	NELAP	49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Dimethyl phthalate		34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Fluoranthene	NELAP	34.5	J	19	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Fluorene	NELAP	34.5	J	12	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Hexachlorobenzene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Hexachlorobutadiene	NELAP	49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Hexachlorocyclopentadiene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Hexachloroethane	NELAP	49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Isophorone	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
m,p-Cresol	NELAP	49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
N-Nitrosodiphenylamine	NELAP	49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Naphthalene	NELAP	34.5		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Nitrobenzene	NELAP	49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
o-Cresol	NELAP	49.3		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Pentachlorophenol	NELAP	197		ND	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-024
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B550-3 (2-3')
Collection Date: 7/20/04 4:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	34.5	J	**14**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Phenol	NELAP	34.5		**ND**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Pyrene	NELAP	49.3	J	**21**	mg/Kg-dry	25	8/2/04 4:38:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**107**	%REC	25	8/2/04 4:38:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**130**	%REC	25	8/2/04 4:38:00 PM	SML
Surr: 2-Fluorophenol		27-111		**96.2**	%REC	25	8/2/04 4:38:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113	S	**119**	%REC	25	8/2/04 4:38:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**131**	%REC	25	8/2/04 4:38:00 PM	SML
Surr: Phenol-d5		33.7-123		**111**	%REC	25	8/2/04 4:38:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
1,1,2-Trichloroethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
1,1-Dichloroethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
1,1-Dichloroethene	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
1,2-Dichloroethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
1,2-Dichloropropane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
2-Butanone	NELAP	77.7	J	**31**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
2-Hexanone	NELAP	77.7		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
4-Methyl-2-pentanone	NELAP	77.7		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Acetone	NELAP	77.7		**212**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Benzene	NELAP	1.6		**5.8**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Bromodichloromethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Bromoform	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Bromomethane	NELAP	15.5		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Carbon disulfide	NELAP	7.8		**11.1**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Carbon tetrachloride	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Chlorobenzene	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Chloroethane	NELAP	15.5		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Chloroform	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Chloromethane	NELAP	15.5		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	6.2		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Dibromochloromethane	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Ethylbenzene	NELAP	7.8		**13.6**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Methyl tert-butyl ether	NELAP	3.1		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Methylene chloride	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-024
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B550-3 (2-3')
Collection Date: 7/20/04 4:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Tetrachloroethene	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Toluene	NELAP	7.8	J	**3.8**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	6.2		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Trichloroethene	NELAP	7.8		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Vinyl chloride	NELAP	3.1		**ND**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Xylenes, Total	NELAP	7.8		**25.9**	µg/Kg-dry	1	8/1/04 4:07:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**126**	%REC	1	8/1/04 4:07:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**63.6**	%REC	1	8/1/04 4:07:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**126**	%REC	1	8/1/04 4:07:00 AM	HLR
Surr: Toluene-d8		82.8-112.8	S	**79.0**	%REC	1	8/1/04 4:07:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.014		**0.076**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		14		**ND**	mg/Kg-dry	1	7/30/04 3:13:00 PM	SML
SW-846 9010, 9014								
Cyanide	NELAP	0.70		**9.82**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**5.26**		1	7/27/04 3:15:00 PM	JLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-025
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B550-9 (8-9')
Collection Date: 7/20/04 5:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**25.2**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**74.8**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.680		**5.33**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Acenaphthylene	NELAP	0.680		**0.791**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Anthracene	NELAP	0.680		**2.63**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Benzo(a)anthracene	NELAP	0.680		**1.57**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Benzo(a)pyrene	NELAP	0.680		**1.83**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.680		**1.39**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.680	J	**0.41**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.680	J	**0.41**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Chrysene	NELAP	0.680		**1.58**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.680	J	**0.16**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Fluoranthene	NELAP	0.680		**2.60**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Fluorene	NELAP	0.680		**4.35**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.680	J	**0.37**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Naphthalene	NELAP	0.680		**2.70**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Phenanthrene	NELAP	0.680		**9.57**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Pyrene	NELAP	0.680		**3.85**	mg/Kg-dry	5	7/30/04 7:29:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**44.1**	%REC	5	7/30/04 7:29:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**44.1**	%REC	5	7/30/04 7:29:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**59.9**	%REC	5	7/30/04 7:29:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	30.9		**610**	µg/Kg-dry	12.5	7/31/04 4:05:00 AM	HLR
Toluene	NELAP	154	J	**55**	µg/Kg-dry	12.5	7/31/04 4:05:00 AM	HLR
Ethylbenzene	NELAP	154		**1260**	µg/Kg-dry	12.5	7/31/04 4:05:00 AM	HLR
Xylenes, Total	NELAP	154		**623**	µg/Kg-dry	12.5	7/31/04 4:05:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**85.2**	%REC	12.5	7/31/04 4:05:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**101**	%REC	12.5	7/31/04 4:05:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**91.0**	%REC	12.5	7/31/04 4:05:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**98.1**	%REC	12.5	7/31/04 4:05:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-026
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B550-11 (10-11')
Collection Date: 7/20/04 5:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**23.7**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**76.3**	%	1	7/27/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	63.9		**1540 #**	mg/Kg-dry	10	7/27/04 12:59:00 PM	DMH
Kerosene	NELAP	63.9		**ND**	mg/Kg-dry	10	7/27/04 12:59:00 PM	DMH
Mineral Spirits	NELAP	63.9		**ND**	mg/Kg-dry	10	7/27/04 12:59:00 PM	DMH
Motor Oil	NELAP	63.9		**ND**	mg/Kg-dry	10	7/27/04 12:59:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**97.7**	%REC	10	7/27/04 12:59:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	13.0		**35.6**	mg/Kg-dry	100	7/30/04 8:08:00 PM	DMH
Acenaphthylene	NELAP	1.30		**4.66**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Anthracene	NELAP	1.30		**18.4**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Benzo(a)anthracene	NELAP	1.30		**6.74**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Benzo(a)pyrene	NELAP	1.30		**7.48**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.30		**4.89**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.30		**2.05**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.30		**1.42**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Chrysene	NELAP	1.30		**6.49**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.30	J	**0.61**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Fluoranthene	NELAP	1.30		**16.4**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Fluorene	NELAP	13.0		**24.3**	mg/Kg-dry	100	7/30/04 8:08:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.30		**1.81**	mg/Kg-dry	10	7/30/04 12:02:00 PM	DMH
Naphthalene	NELAP	13.0		**35.4**	mg/Kg-dry	100	7/30/04 8:08:00 PM	DMH
Phenanthrene	NELAP	13.0		**49.0**	mg/Kg-dry	100	7/30/04 8:08:00 PM	DMH
Pyrene	NELAP	13.0		**20.0**	mg/Kg-dry	100	7/30/04 8:08:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**65.9**	%REC	10	7/30/04 12:02:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**53.9**	%REC	10	7/30/04 12:02:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**73.7**	%REC	10	7/30/04 12:02:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	108		**1240**	µg/Kg-dry	50	7/31/04 4:37:00 AM	HLR
Toluene	NELAP	542	J	**150**	µg/Kg-dry	50	7/31/04 4:37:00 AM	HLR
Ethylbenzene	NELAP	542		**4020**	µg/Kg-dry	50	7/31/04 4:37:00 AM	HLR
Xylenes, Total	NELAP	542		**1930**	µg/Kg-dry	50	7/31/04 4:37:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**87.0**	%REC	50	7/31/04 4:37:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**103**	%REC	50	7/31/04 4:37:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B550-11 (10-11')
Lab ID:	04070635-026	**Collection Date:**	7/20/04 5:35:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**95.2**	%REC	50	7/31/04 4:37:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.4**	%REC	50	7/31/04 4:37:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B550-16 (15-16')
Lab ID:	04070635-027	**Collection Date:**	7/20/04 5:50:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**12.1**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**87.9**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.111	J	**0.050**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Acenaphthylene	NELAP	0.111	J	**0.020**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Anthracene	NELAP	0.111	J	**0.054**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Benzo(a)anthracene	NELAP	0.111	J	**0.040**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Benzo(a)pyrene	NELAP	0.111	J	**0.034**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.111	J	**0.032**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.111	J	**0.011**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Chrysene	NELAP	0.111	J	**0.040**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Fluoranthene	NELAP	0.111	J	**0.077**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Fluorene	NELAP	0.111	J	**0.050**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Naphthalene	NELAP	0.111		**0.258**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Phenanthrene	NELAP	0.111		**0.170**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Pyrene	NELAP	0.111	J	**0.10**	mg/Kg-dry	1	7/29/04 2:40:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**61.8**	%REC	1	7/29/04 2:40:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**50.0**	%REC	1	7/29/04 2:40:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**74.2**	%REC	1	7/29/04 2:40:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	89.0		**5810**	µg/Kg-dry	50	8/2/04 10:57:00 AM	HLR
Toluene	NELAP	111		**798**	µg/Kg-dry	12.5	8/1/04 1:44:00 PM	HLR
Ethylbenzene	NELAP	111		**1440**	µg/Kg-dry	12.5	8/1/04 1:44:00 PM	HLR
Xylenes, Total	NELAP	111		**1430**	µg/Kg-dry	12.5	8/1/04 1:44:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**93.7**	%REC	12.5	8/1/04 1:44:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**99.1**	%REC	12.5	8/1/04 1:44:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**95.5**	%REC	12.5	8/1/04 1:44:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	12.5	8/1/04 1:44:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-028
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B550-28 (27-28')
Collection Date: 7/20/04 6:20:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.6**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.4**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Acenaphthylene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Anthracene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Benzo(a)anthracene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Benzo(a)pyrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Chrysene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Fluoranthene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Fluorene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Naphthalene	NELAP	0.111	J	**0.061**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Phenanthrene	NELAP	0.111	J	**0.021**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Pyrene	NELAP	0.111		**ND**	mg/Kg-dry	1	7/29/04 3:19:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**64.5**	%REC	1	7/29/04 3:19:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**53.8**	%REC	1	7/29/04 3:19:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**81.7**	%REC	1	7/29/04 3:19:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**1.1**	µg/Kg-dry	1	8/1/04 2:16:00 PM	HLR
Toluene	NELAP	3.9	J	**1.8**	µg/Kg-dry	1	8/1/04 2:16:00 PM	HLR
Ethylbenzene	NELAP	3.9		**ND**	µg/Kg-dry	1	8/1/04 2:16:00 PM	HLR
Xylenes, Total	NELAP	3.9	J	**1.4**	µg/Kg-dry	1	8/1/04 2:16:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**99.0**	%REC	1	8/1/04 2:16:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**93.0**	%REC	1	8/1/04 2:16:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.7**	%REC	1	8/1/04 2:16:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**98.2**	%REC	1	8/1/04 2:16:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-029
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-3 (2-3')
Collection Date: 7/21/04 9:20:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**18.6**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**81.4**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**13.0**	mg/Kg-dry	1	8/3/04 12:14:01 PM	JMW
Barium	NELAP	0.50		**184**	mg/Kg-dry	1	8/2/04 4:04:32 PM	SAM
Cadmium	NELAP	0.20		**1.03**	mg/Kg-dry	1	8/2/04 4:04:32 PM	SAM
Chromium	NELAP	1.00		**18.3**	mg/Kg-dry	1	8/2/04 5:14:17 PM	JMW
Lead	NELAP	4.00		**164**	mg/Kg-dry	1	8/2/04 4:04:32 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	8/2/04 4:04:32 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	8/2/04 4:04:32 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	1.18		**ND**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Acenaphthylene	NELAP	1.18		**1.18**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Anthracene	NELAP	1.18	J	**0.33**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Benzo(a)anthracene	NELAP	1.18		**1.47**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Benzo(a)pyrene	NELAP	1.18		**3.31**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Benzo(b)fluoranthene	NELAP	1.18		**3.46**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	1.18		**1.65**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Benzo(k)fluoranthene	NELAP	1.18	J	**1.0**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Chrysene	NELAP	1.18		**2.02**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	1.18	J	**0.41**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Fluoranthene	NELAP	1.18		**2.03**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Fluorene	NELAP	1.18	J	**0.12**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.18		**1.40**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Naphthalene	NELAP	1.18	J	**0.29**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Phenanthrene	NELAP	1.18	J	**0.82**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Pyrene	NELAP	1.18		**3.12**	mg/Kg-dry	5	7/30/04 2:06:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**60.9**	%REC	5	7/30/04 2:06:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**58.9**	%REC	5	7/30/04 2:06:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**66.0**	%REC	5	7/30/04 2:06:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.1		**14.2**	µg/Kg-dry	1	7/31/04 6:14:00 AM	HLR
Toluene	NELAP	5.4		**11.2**	µg/Kg-dry	1	7/31/04 6:14:00 AM	HLR
Ethylbenzene	NELAP	5.4	J	**4.0**	µg/Kg-dry	1	7/31/04 6:14:00 AM	HLR
Xylenes, Total	NELAP	5.4		**11.2**	µg/Kg-dry	1	7/31/04 6:14:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B509-3 (2-3')
Lab ID:	04070635-029	**Collection Date:**	7/21/04 9:20:00 AM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122	S	**67.3**	%REC	1	7/31/04 6:14:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**85.7**	%REC	1	7/31/04 6:14:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**87.9**	%REC	1	7/31/04 6:14:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**93.0**	%REC	1	7/31/04 6:14:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.252**	mg/Kg-dry	1	7/27/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.59		**2.74**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.69**		1	7/27/04 3:18:00 PM	JLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-030
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-8 (7-8')
Collection Date: 7/21/04 9:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**22.2**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**77.8**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		**12.7**	mg/Kg-dry	1	8/3/04 12:16:06 PM	JMW
Barium	NELAP	0.49		**117**	mg/Kg-dry	1	8/2/04 4:09:50 PM	SAM
Cadmium	NELAP	0.20	J	**0.10**	mg/Kg-dry	1	8/2/04 4:09:50 PM	SAM
Chromium	NELAP	0.98		**16.8**	mg/Kg-dry	1	8/2/04 5:23:14 PM	JMW
Lead	NELAP	3.92		**13.8**	mg/Kg-dry	1	8/2/04 4:09:50 PM	SAM
Selenium	NELAP	3.92		**< 3.92**	mg/Kg-dry	1	8/2/04 4:09:50 PM	SAM
Silver	NELAP	0.98		**< 0.98**	mg/Kg-dry	1	8/2/04 4:09:50 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
1,2-Dichlorobenzene	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
1,3-Dichlorobenzene	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
1,4-Dichlorobenzene	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2,4,5-Trichlorophenol	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2,4,6-Trichlorophenol	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2,4-Dichlorophenol	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2,4-Dimethylphenol	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2,4-Dinitrophenol	NELAP	6.43		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2,4-Dinitrotoluene	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2,6-Dinitrotoluene	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2-Chloronaphthalene	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2-Chlorophenol	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2-Methylnaphthalene	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2-Nitroaniline	NELAP	6.43		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
2-Nitrophenol	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
3-Nitroaniline	NELAP	6.43		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	6.43		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
4-Chloro-3-methylphenol	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
4-Chloroaniline	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
4-Nitroaniline	NELAP	3.22		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-030
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-8 (7-8')
Collection Date: 7/21/04 9:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Acenaphthene	NELAP	2.25		9.76	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Acenaphthylene	NELAP	2.25		4.69	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Anthracene	NELAP	2.25		7.21	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Benzo(a)anthracene	NELAP	2.25		9.37	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Benzo(a)pyrene	NELAP	2.25		8.67	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Benzo(b)fluoranthene	NELAP	2.25		6.81	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Benzo(g,h,i)perylene	NELAP	2.25		2.85	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Benzo(k)fluoranthene	NELAP	2.25		2.54	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	2.93		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Butyl benzyl phthalate	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Carbazole		3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Chrysene	NELAP	2.25		8.96	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Di-n-butyl phthalate	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Di-n-octyl phthalate	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Dibenzofuran	NELAP	2.25	J	1.6	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Diethyl phthalate	NELAP	3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Dimethyl phthalate		2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Fluoranthene	NELAP	2.25		17.8	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Fluorene	NELAP	2.25		12.7	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Hexachlorobenzene	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Hexachlorobutadiene	NELAP	3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Hexachlorocyclopentadiene	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Hexachloroethane	NELAP	3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	2.25		2.36	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Isophorone	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
m,p-Cresol	NELAP	3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
N-Nitrosodiphenylamine	NELAP	3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Naphthalene	NELAP	2.25		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Nitrobenzene	NELAP	3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
o-Cresol	NELAP	3.22		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Pentachlorophenol	NELAP	12.9		ND	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-030
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-8 (7-8')
Collection Date: 7/21/04 9:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	4.50		**37.4**	mg/Kg-dry	10	8/10/04 1:36:00 PM	SML
Phenol	NELAP	2.25		**ND**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Pyrene	NELAP	3.22		**25.2**	mg/Kg-dry	5	8/2/04 7:11:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**103**	%REC	5	8/2/04 7:11:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**113**	%REC	5	8/2/04 7:11:00 PM	SML
Surr: 2-Fluorophenol		27-111		**97.7**	%REC	5	8/2/04 7:11:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**100**	%REC	5	8/2/04 7:11:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**114**	%REC	5	8/2/04 7:11:00 PM	SML
Surr: Phenol-d5		33.7-123		**113**	%REC	5	8/2/04 7:11:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
1,1,2-Trichloroethane	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
1,1-Dichloroethane	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
1,1-Dichloroethene	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
1,2-Dichloroethane	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
1,2-Dichloropropane	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
2-Butanone	NELAP	51.6		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
2-Hexanone	NELAP	51.6		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
4-Methyl-2-pentanone	NELAP	51.6		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Acetone	NELAP	51.6	J	**31**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Benzene	NELAP	1.0		**4.6**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Bromodichloromethane	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Bromoform	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Bromomethane	NELAP	10.3		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Carbon disulfide	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Carbon tetrachloride	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Chlorobenzene	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Chloroethane	NELAP	10.3		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Chloroform	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Chloromethane	NELAP	10.3		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	4.1		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Dibromochloromethane	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Ethylbenzene	NELAP	5.2	J	**3.8**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Methyl tert-butyl ether	NELAP	2.1		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Methylene chloride	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-030
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-8 (7-8')
Collection Date: 7/21/04 9:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Tetrachloroethene	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Toluene	NELAP	5.2	J	**1.4**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	4.1		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Trichloroethene	NELAP	5.2		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Vinyl chloride	NELAP	2.1		**ND**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Xylenes, Total	NELAP	5.2		**12.0**	µg/Kg-dry	1	8/1/04 4:38:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**104**	%REC	1	8/1/04 4:38:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.1**	%REC	1	8/1/04 4:38:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	1	8/1/04 4:38:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.8**	%REC	1	8/1/04 4:38:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		**0.028**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/30/04 3:29:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.33**		1	7/27/04 3:19:00 PM	JLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-031
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-8D (7-8')
Collection Date: 7/21/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**23.9**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**76.1**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**16.5**	mg/Kg-dry	1	8/3/04 9:57:28 AM	JMW
Barium	NELAP	0.50		**165**	mg/Kg-dry	1	8/2/04 5:57:14 PM	SAM
Cadmium	NELAP	0.20		**0.33**	mg/Kg-dry	1	8/2/04 5:57:14 PM	SAM
Chromium	NELAP	1.00		**20.0**	mg/Kg-dry	1	8/2/04 5:38:17 PM	JMW
Lead	NELAP	4.00		**19.1**	mg/Kg-dry	1	8/2/04 5:57:14 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	8/2/04 5:57:14 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	8/2/04 5:57:14 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
1,2-Dichlorobenzene	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
1,3-Dichlorobenzene	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
1,4-Dichlorobenzene	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2,4,5-Trichlorophenol	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2,4,6-Trichlorophenol	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2,4-Dichlorophenol	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2,4-Dimethylphenol	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2,4-Dinitrophenol	NELAP	32.5		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2,4-Dinitrotoluene	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2,6-Dinitrotoluene	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2-Chloronaphthalene	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2-Chlorophenol	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2-Methylnaphthalene	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2-Nitroaniline	NELAP	32.5		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
2-Nitrophenol	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
3,3´-Dichlorobenzidine	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
3-Nitroaniline	NELAP	32.5		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	32.5		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
4-Chloro-3-methylphenol	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
4-Chloroaniline	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
4-Nitroaniline	NELAP	16.3		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-031
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-8D (7-8')
Collection Date: 7/21/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Acenaphthene	NELAP	11.4	J	7.9	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Acenaphthylene	NELAP	11.4	J	4.6	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Anthracene	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Benzo(a)anthracene	NELAP	11.4		11.7	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Benzo(a)pyrene	NELAP	11.4	J	11	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Benzo(b)fluoranthene	NELAP	11.4	J	8.3	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Benzo(g,h,i)perylene	NELAP	11.4	J	5.7	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Benzo(k)fluoranthene	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	14.8		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Butyl benzyl phthalate	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Carbazole		16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Chrysene	NELAP	11.4	J	11	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Di-n-butyl phthalate	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Di-n-octyl phthalate	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Dibenzofuran	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Diethyl phthalate	NELAP	16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Dimethyl phthalate		11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Fluoranthene	NELAP	11.4		21.0	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Fluorene	NELAP	11.4	J	11	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Hexachlorobenzene	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Hexachlorobutadiene	NELAP	16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Hexachlorocyclopentadiene	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Hexachloroethane	NELAP	16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	11.4	J	4.1	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Isophorone	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
m,p-Cresol	NELAP	16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
N-Nitrosodiphenylamine	NELAP	16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Naphthalene	NELAP	11.4		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Nitrobenzene	NELAP	16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
o-Cresol	NELAP	16.3		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Pentachlorophenol	NELAP	65.0		ND	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-031
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-8D (7-8')
Collection Date: 7/21/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	11.4		**39.8**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Phenol	NELAP	11.4		**ND**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Pyrene	NELAP	16.3		**30.0**	mg/Kg-dry	25	8/2/04 5:16:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**90.1**	%REC	25	8/2/04 5:16:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**109**	%REC	25	8/2/04 5:16:00 PM	SML
Surr: 2-Fluorophenol		27-111		**92.6**	%REC	25	8/2/04 5:16:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**104**	%REC	25	8/2/04 5:16:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**109**	%REC	25	8/2/04 5:16:00 PM	SML
Surr: Phenol-d5		33.7-123		**110**	%REC	25	8/2/04 5:16:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
1,1,2-Trichloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
1,1-Dichloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
1,1-Dichloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
1,2-Dichloroethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
1,2-Dichloropropane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
2-Butanone	NELAP	48.0		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
2-Hexanone	NELAP	48.0		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
4-Methyl-2-pentanone	NELAP	48.0		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Acetone	NELAP	48.0	J	**43**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Benzene	NELAP	1.0		**4.7**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Bromodichloromethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Bromoform	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Bromomethane	NELAP	9.6		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Carbon disulfide	NELAP	4.8	J	**4.7**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Carbon tetrachloride	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Chlorobenzene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Chloroethane	NELAP	9.6		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Chloroform	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Chloromethane	NELAP	9.6		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	3.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Dibromochloromethane	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Ethylbenzene	NELAP	4.8	J	**3.5**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Methyl tert-butyl ether	NELAP	1.9		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Methylene chloride	NELAP	4.8	J	**1.7**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-031
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-8D (7-8')
Collection Date: 7/21/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	4.8	J	**1.4**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Tetrachloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Toluene	NELAP	4.8		**6.9**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	3.8		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Trichloroethene	NELAP	4.8	J	**1.0**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Vinyl chloride	NELAP	1.9		**ND**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Xylenes, Total	NELAP	4.8		**13.8**	µg/Kg-dry	1	8/1/04 5:09:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**106**	%REC	1	8/1/04 5:09:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**86.2**	%REC	1	8/1/04 5:09:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**107**	%REC	1	8/1/04 5:09:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**95.6**	%REC	1	8/1/04 5:09:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.041**	mg/Kg-dry	1	7/27/04	SRS
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		13		**ND**	mg/Kg-dry	1	7/30/04 3:45:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.12**		1	7/27/04 3:21:00 PM	JLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-032
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-18 (17-18')
Collection Date: 7/21/04 11:10:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.3**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.7**	%	1	7/27/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	5.44		**ND**	mg/Kg-dry	1	7/26/04 5:58:00 PM	DMH
Kerosene	NELAP	5.44		**8.58 #**	mg/Kg-dry	1	7/26/04 5:58:00 PM	DMH
Mineral Spirits	NELAP	5.44		**ND**	mg/Kg-dry	1	7/26/04 5:58:00 PM	DMH
Motor Oil	NELAP	5.44		**ND**	mg/Kg-dry	1	7/26/04 5:58:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**101**	%REC	1	7/26/04 5:58:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.113	J	**0.086**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Acenaphthylene	NELAP	0.113		**0.263**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Anthracene	NELAP	0.113	J	**0.091**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Benzo(a)anthracene	NELAP	0.113	J	**0.066**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Benzo(a)pyrene	NELAP	0.113	J	**0.074**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.113	J	**0.053**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.113	J	**0.036**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.113	J	**0.016**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Chrysene	NELAP	0.113	J	**0.066**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Fluoranthene	NELAP	0.113		**0.125**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Fluorene	NELAP	0.113		**0.113**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.113	J	**0.027**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Naphthalene	NELAP	1.13		**7.94**	mg/Kg-dry	10	7/30/04 1:59:00 PM	DMH
Phenanthrene	NELAP	0.113		**0.298**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Pyrene	NELAP	0.113		**0.194**	mg/Kg-dry	1	7/29/04 10:44:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**69.8**	%REC	1	7/29/04 10:44:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**59.8**	%REC	1	7/29/04 10:44:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**78.8**	%REC	1	7/29/04 10:44:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	322		**6250**	µg/Kg-dry	250	8/1/04 2:47:00 PM	HLR
Toluene	NELAP	1610	J	**550**	µg/Kg-dry	250	8/1/04 2:47:00 PM	HLR
Ethylbenzene	NELAP	1610		**11400**	µg/Kg-dry	250	8/1/04 2:47:00 PM	HLR
Xylenes, Total	NELAP	1610		**6630**	µg/Kg-dry	250	8/1/04 2:47:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**95.7**	%REC	250	8/1/04 2:47:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**101**	%REC	250	8/1/04 2:47:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-032
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-18 (17-18')
Collection Date: 7/21/04 11:10:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**98.1**	%REC	250	8/1/04 2:47:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**99.4**	%REC	250	8/1/04 2:47:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-033
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B509-28 (27-28')
Collection Date: 7/21/04 11:35:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.7**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.3**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.112	J	**0.022**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Acenaphthylene	NELAP	0.112	J	**0.11**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Anthracene	NELAP	0.112	J	**0.098**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Benzo(a)anthracene	NELAP	0.112	J	**0.072**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Benzo(a)pyrene	NELAP	0.112	J	**0.079**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.112	J	**0.058**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.112	J	**0.039**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.112	J	**0.017**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Chrysene	NELAP	0.112	J	**0.072**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.112		**ND**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Fluoranthene	NELAP	0.112		**0.142**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Fluorene	NELAP	0.112	J	**0.090**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.112	J	**0.028**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Naphthalene	NELAP	0.112		**0.466**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Phenanthrene	NELAP	0.112		**0.311**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Pyrene	NELAP	0.112		**0.223**	mg/Kg-dry	1	7/29/04 10:05:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**64.0**	%REC	1	7/29/04 10:05:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**54.8**	%REC	1	7/29/04 10:05:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**72.6**	%REC	1	7/29/04 10:05:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8	J	**0.7**	µg/Kg-dry	1	8/1/04 3:19:00 PM	HLR
Toluene	NELAP	4.0	J	**2.0**	µg/Kg-dry	1	8/1/04 3:19:00 PM	HLR
Ethylbenzene	NELAP	4.0		**ND**	µg/Kg-dry	1	8/1/04 3:19:00 PM	HLR
Xylenes, Total	NELAP	4.0	J	**2.7**	µg/Kg-dry	1	8/1/04 3:19:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**98.3**	%REC	1	8/1/04 3:19:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**97.5**	%REC	1	8/1/04 3:19:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.3**	%REC	1	8/1/04 3:19:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**98.8**	%REC	1	8/1/04 3:19:00 PM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B507-1 (0-1')
Lab ID:	04070635-034	**Collection Date:**	7/21/04 1:45:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**14.5**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**85.5**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**10.1**	mg/Kg-dry	1	8/3/04 10:42:59 AM	JMW
Barium	NELAP	0.48		**141**	mg/Kg-dry	1	8/2/04 6:12:22 PM	SAM
Cadmium	NELAP	0.19		**0.22**	mg/Kg-dry	1	8/2/04 6:12:22 PM	SAM
Chromium	NELAP	0.96		**16.0**	mg/Kg-dry	1	8/2/04 5:47:15 PM	JMW
Lead	NELAP	3.85		**60.8**	mg/Kg-dry	1	8/2/04 6:12:22 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	8/2/04 6:12:22 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	8/2/04 6:12:22 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.343	J	**0.11**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Acenaphthylene	NELAP	0.343		**1.05**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Anthracene	NELAP	0.343		**0.512**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Benzo(a)anthracene	NELAP	0.343		**0.951**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Benzo(a)pyrene	NELAP	0.343		**1.97**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.343		**1.73**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.343		**0.651**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.343		**0.528**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Chrysene	NELAP	0.343		**1.09**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.343	J	**0.17**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Fluoranthene	NELAP	0.343		**1.49**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Fluorene	NELAP	0.343	J	**0.25**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.343		**0.611**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Naphthalene	NELAP	0.343		**0.599**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Phenanthrene	NELAP	0.343		**1.76**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Pyrene	NELAP	0.343		**2.33**	mg/Kg-dry	1	7/30/04 4:41:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**70.3**	%REC	1	7/30/04 4:41:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**67.4**	%REC	1	7/30/04 4:41:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**79.1**	%REC	1	7/30/04 4:41:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.0		**5.0**	µg/Kg-dry	1	8/1/04 3:51:00 PM	HLR
Toluene	NELAP	4.8	J	**3.9**	µg/Kg-dry	1	8/1/04 3:51:00 PM	HLR
Ethylbenzene	NELAP	4.8	J	**1.1**	µg/Kg-dry	1	8/1/04 3:51:00 PM	HLR
Xylenes, Total	NELAP	4.8	J	**3.2**	µg/Kg-dry	1	8/1/04 3:51:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-034
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B507-1 (0-1')
Collection Date: 7/21/04 1:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**94.6**	%REC	1	8/1/04 3:51:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**91.9**	%REC	1	8/1/04 3:51:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.8**	%REC	1	8/1/04 3:51:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**97.9**	%REC	1	8/1/04 3:51:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.010		**0.084**	mg/Kg-dry	1	7/27/04	SRS
SW-846 9010, 9014								
Cyanide	NELAP	0.55		**2.15**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.62**		1	7/27/04 3:23:00 PM	JLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B507-8 (7-8')
Lab ID:	04070635-035	**Collection Date:**	7/21/04 2:15:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.7**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.3**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	32.1		**52.9**	mg/Kg-dry	250	7/30/04 10:42:00 PM	DMH
Acenaphthylene	NELAP	1.29		**3.58**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Anthracene	NELAP	24.1		**24.2**	mg/Kg-dry	250	7/30/04 10:42:00 PM	DMH
Benzo(a)anthracene	NELAP	1.29		**9.46**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Benzo(a)pyrene	NELAP	1.29		**11.6**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.29		**7.86**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.29		**2.41**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.29		**2.32**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Chrysene	NELAP	1.29		**8.79**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.29	J	**0.72**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Fluoranthene	NELAP	24.1		**26.5**	mg/Kg-dry	250	7/30/04 10:42:00 PM	DMH
Fluorene	NELAP	32.1		**34.6**	mg/Kg-dry	250	7/30/04 10:42:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.29		**2.31**	mg/Kg-dry	10	7/30/04 2:38:00 PM	DMH
Naphthalene	NELAP	32.1		**171**	mg/Kg-dry	250	7/30/04 10:42:00 PM	DMH
Phenanthrene	NELAP	32.1		**77.2**	mg/Kg-dry	250	7/30/04 10:42:00 PM	DMH
Pyrene	NELAP	32.1		**37.0**	mg/Kg-dry	250	7/30/04 10:42:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**65.6**	%REC	10	7/30/04 2:38:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**46.0**	%REC	10	7/30/04 2:38:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**69.8**	%REC	10	7/30/04 2:38:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	274		**3510**	µg/Kg-dry	125	8/1/04 4:23:00 PM	HLR
Toluene	NELAP	1370	J	**280**	µg/Kg-dry	125	8/1/04 4:23:00 PM	HLR
Ethylbenzene	NELAP	1370		**22200**	µg/Kg-dry	125	8/1/04 4:23:00 PM	HLR
Xylenes, Total	NELAP	1370		**16600**	µg/Kg-dry	125	8/1/04 4:23:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**92.8**	%REC	125	8/1/04 4:23:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**101**	%REC	125	8/1/04 4:23:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.8**	%REC	125	8/1/04 4:23:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	125	8/1/04 4:23:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-036
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B507-19 (18-19')
Collection Date: 7/21/04 3:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		18.0	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		82.0	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.36		< 2.36	mg/Kg-dry	1	8/3/04 11:06:19 AM	JMW
Barium	NELAP	0.47		4.88	mg/Kg-dry	1	8/2/04 6:17:39 PM	SAM
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	8/2/04 6:17:39 PM	SAM
Chromium	NELAP	0.94		2.49	mg/Kg-dry	1	8/2/04 5:56:21 PM	JMW
Lead	NELAP	3.77	J	3.2	mg/Kg-dry	1	8/2/04 6:17:39 PM	SAM
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	8/2/04 6:17:39 PM	SAM
Silver	NELAP	0.94		< 0.94	mg/Kg-dry	1	8/2/04 6:17:39 PM	SAM
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	3620		23200 #	mg/Kg-dry	100	7/28/04 10:24:00 AM	DMH
Kerosene	NELAP	3620		ND	mg/Kg-dry	100	7/28/04 10:24:00 AM	DMH
Mineral Spirits	NELAP	3620		ND	mg/Kg-dry	100	7/28/04 10:24:00 AM	DMH
Motor Oil	NELAP	3620		ND	mg/Kg-dry	100	7/28/04 10:24:00 AM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	0	%REC	100	7/28/04 10:24:00 AM	DMH
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
1,2-Dichlorobenzene	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
1,3-Dichlorobenzene	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
1,4-Dichlorobenzene	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2,4,5-Trichlorophenol	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2,4,6-Trichlorophenol	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2,4-Dichlorophenol	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2,4-Dimethylphenol	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2,4-Dinitrophenol	NELAP	155		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2,4-Dinitrotoluene	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2,6-Dinitrotoluene	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2-Chloronaphthalene	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2-Chlorophenol	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2-Methylnaphthalene	NELAP	217		1440	mg/Kg-dry	100	8/10/04 2:14:00 PM	SML
2-Nitroaniline	NELAP	155		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
2-Nitrophenol	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
3-Nitroaniline	NELAP	155		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-036
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B507-19 (18-19')
Collection Date: 7/21/04 3:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4,6-Dinitro-2-methylphenol	NELAP	155		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
4-Chloro-3-methylphenol	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
4-Chloroaniline	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
4-Nitroaniline	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
4-Nitrophenol	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Acenaphthene	NELAP	54.3		115	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Acenaphthylene	NELAP	217		697	mg/Kg-dry	100	8/10/04 2:14:00 PM	SML
Anthracene	NELAP	54.3		406	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Benzo(a)anthracene	NELAP	54.3		257	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Benzo(a)pyrene	NELAP	54.3		237	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Benzo(b)fluoranthene	NELAP	54.3		170	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Benzo(g,h,i)perylene	NELAP	54.3		80.0	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Benzo(k)fluoranthene	NELAP	54.3		69.6	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	70.7		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Butyl benzyl phthalate	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Carbazole		77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Chrysene	NELAP	54.3		239	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Di-n-butyl phthalate	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Di-n-octyl phthalate	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Dibenzofuran	NELAP	54.3		86.2	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Diethyl phthalate	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Dimethyl phthalate		54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Fluoranthene	NELAP	54.3		485	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Fluorene	NELAP	54.3		547	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Hexachlorobenzene	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Hexachlorobutadiene	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Hexachlorocyclopentadiene	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Hexachloroethane	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	54.3		64.0	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Isophorone	NELAP	54.3		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
m,p-Cresol	NELAP	77.5		ND	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-036
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B507-19 (18-19')
Collection Date: 7/21/04 3:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
N-Nitroso-di-n-propylamine	NELAP	77.5		**ND**	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
N-Nitrosodiphenylamine	NELAP	77.5		**ND**	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Naphthalene	NELAP	543		**4620**	mg/Kg-dry	250	8/10/04 2:52:00 PM	SML
Nitrobenzene	NELAP	77.5		**ND**	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
o-Cresol	NELAP	77.5		**ND**	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Pentachlorophenol	NELAP	310		**ND**	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Phenanthrene	NELAP	217		**935**	mg/Kg-dry	100	8/10/04 2:14:00 PM	SML
Phenol	NELAP	54.3		**ND**	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Pyrene	NELAP	77.5		**713**	mg/Kg-dry	25	8/2/04 6:33:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**67.0**	%REC	25	8/2/04 6:33:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**113**	%REC	25	8/2/04 6:33:00 PM	SML
Surr: 2-Fluorophenol		27-111		**76.2**	%REC	25	8/2/04 6:33:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**97.1**	%REC	25	8/2/04 6:33:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**97.1**	%REC	25	8/2/04 6:33:00 PM	SML
Surr: Phenol-d5		33.7-123		**95.1**	%REC	25	8/2/04 6:33:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
1,1,2-Trichloroethane	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
1,1-Dichloroethane	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
1,1-Dichloroethene	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
1,2-Dichloroethane	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
1,2-Dichloropropane	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
2-Butanone	NELAP	52200		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
2-Hexanone	NELAP	52200		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
4-Methyl-2-pentanone	NELAP	52200		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Acetone	NELAP	52200	J	**20000**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Benzene	NELAP	10400		**659000**	µg/Kg-dry	5000	8/1/04 9:19:00 AM	HLR
Bromodichloromethane	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Bromoform	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Bromomethane	NELAP	10400		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Carbon disulfide	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Carbon tetrachloride	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Chlorobenzene	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Chloroethane	NELAP	10400		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Chloroform	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Chloromethane	NELAP	10400		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-036
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B507-19 (18-19')
Collection Date: 7/21/04 3:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
cis-1,2-Dichloroethene	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	4180		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Dibromochloromethane	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Ethylbenzene	NELAP	5220		**141000**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Methyl tert-butyl ether	NELAP	2090		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Methylene chloride	NELAP	5220	J	**1300**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Styrene	NELAP	52200		**938000**	µg/Kg-dry	5000	8/1/04 9:19:00 AM	HLR
Tetrachloroethene	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Toluene	NELAP	52200		**1540000**	µg/Kg-dry	5000	8/1/04 9:19:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	4180		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Trichloroethene	NELAP	5220		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Vinyl chloride	NELAP	2090		**ND**	µg/Kg-dry	500	8/1/04 5:41:00 AM	HLR
Xylenes, Total	NELAP	52200		**1300000**	µg/Kg-dry	5000	8/1/04 9:19:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**98.1**	%REC	500	8/1/04 5:41:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.5**	%REC	500	8/1/04 5:41:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	500	8/1/04 5:41:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**103**	%REC	500	8/1/04 5:41:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**< 0.012**	mg/Kg-dry	1	8/2/04	JMW
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		12		**15**	mg/Kg-dry	1	7/30/04 4:49:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.92**		1	7/27/04 4:24:00 PM	JLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-037
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B507-28 (27-28')
Collection Date: 7/21/04 5:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.6**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.4**	%	1	7/27/04	JRS
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8		**6.1**	µg/Kg-dry	1	8/1/04 4:54:00 PM	HLR
Toluene	NELAP	4.2		**14.3**	µg/Kg-dry	1	8/1/04 4:54:00 PM	HLR
Ethylbenzene	NELAP	4.2	J	**3.4**	µg/Kg-dry	1	8/1/04 4:54:00 PM	HLR
Xylenes, Total	NELAP	4.2		**9.1**	µg/Kg-dry	1	8/1/04 4:54:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**100**	%REC	1	8/1/04 4:54:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**83.5**	%REC	1	8/1/04 4:54:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**103**	%REC	1	8/1/04 4:54:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**92.9**	%REC	1	8/1/04 4:54:00 PM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-038
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B502-24 (23-24')
Collection Date: 7/21/04 7:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.1**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.9**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Acenaphthylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Benzo(a)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Benzo(a)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Chrysene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Fluorene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Naphthalene	NELAP	0.113	J	**0.026**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Phenanthrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 11:22:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**68.1**	%REC	1	7/29/04 11:22:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**63.3**	%REC	1	7/29/04 11:22:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**77.7**	%REC	1	7/29/04 11:22:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	19.2		**423**	µg/Kg-dry	12.5	8/2/04 11:29:00 AM	HLR
Toluene	NELAP	95.9		**ND**	µg/Kg-dry	12.5	8/2/04 11:29:00 AM	HLR
Ethylbenzene	NELAP	95.9		**ND**	µg/Kg-dry	12.5	8/2/04 11:29:00 AM	HLR
Xylenes, Total	NELAP	95.9		**ND**	µg/Kg-dry	12.5	8/2/04 11:29:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**93.4**	%REC	12.5	8/2/04 11:29:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**100**	%REC	12.5	8/2/04 11:29:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**94.9**	%REC	12.5	8/2/04 11:29:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	12.5	8/2/04 11:29:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-039
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-3 (2-3')
Collection Date: 7/22/04 8:33:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.2**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**79.8**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**14.7**	mg/Kg-dry	1	8/3/04 10:29:02 AM	JMW
Barium	NELAP	0.48		**113**	mg/Kg-dry	1	8/2/04 6:33:35 PM	SAM
Cadmium	NELAP	0.19	J	**0.14**	mg/Kg-dry	1	8/2/04 6:33:35 PM	SAM
Chromium	NELAP	0.96		**15.7**	mg/Kg-dry	1	8/2/04 6:05:20 PM	JMW
Lead	NELAP	3.85		**177**	mg/Kg-dry	1	8/2/04 6:33:35 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	8/2/04 6:33:35 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	8/2/04 6:33:35 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	3.86	J	**1.3**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Acenaphthylene	NELAP	3.86		**18.3**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Anthracene	NELAP	3.86		**4.54**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Benzo(a)anthracene	NELAP	3.86		**17.6**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Benzo(a)pyrene	NELAP	3.86		**49.1**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Benzo(b)fluoranthene	NELAP	3.86		**55.5**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	3.86		**17.1**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Benzo(k)fluoranthene	NELAP	3.86		**16.5**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Chrysene	NELAP	3.86		**23.1**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	3.86		**5.15**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Fluoranthene	NELAP	3.86		**18.0**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Fluorene	NELAP	3.86	J	**2.8**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	3.86		**16.7**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Naphthalene	NELAP	3.86		**11.4**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Phenanthrene	NELAP	3.86		**10.2**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Pyrene	NELAP	3.86		**30.2**	mg/Kg-dry	10	7/30/04 1:27:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**77.8**	%REC	10	7/30/04 1:27:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**67.9**	%REC	10	7/30/04 1:27:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**87.9**	%REC	10	7/30/04 1:27:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	34.9		**3820**	µg/Kg-dry	12.5	8/1/04 5:57:00 PM	HLR
Toluene	NELAP	174		**3320**	µg/Kg-dry	12.5	8/1/04 5:57:00 PM	HLR
Ethylbenzene	NELAP	174		**1390**	µg/Kg-dry	12.5	8/1/04 5:57:00 PM	HLR
Xylenes, Total	NELAP	174		**5480**	µg/Kg-dry	12.5	8/1/04 5:57:00 PM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-039
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-3 (2-3')
Collection Date: 7/22/04 8:33:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**94.3**	%REC	12.5	8/1/04 5:57:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**99.4**	%REC	12.5	8/1/04 5:57:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**97.1**	%REC	12.5	8/1/04 5:57:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	12.5	8/1/04 5:57:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.023		**0.695**	mg/Kg-dry	2	8/2/04	JMW
SW-846 9010, 9014								
Cyanide	NELAP	0.62		**2.31**	mg/kg-dry	1	8/2/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.37**		1	7/27/04 3:24:00 PM	JLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-040
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-7 (6-7')
Collection Date: 7/22/04 9:10:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**22.9**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**77.1**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	13.2		**169**	mg/Kg-dry	100	7/30/04 11:19:00 PM	DMH
Acenaphthylene	NELAP	1.32		**12.3**	mg/Kg-dry	10	7/29/04 10:11:00 PM	DMH
Anthracene	NELAP	13.2		**71.2**	mg/Kg-dry	100	7/30/04 11:19:00 PM	DMH
Benzo(a)anthracene	NELAP	13.2		**32.6**	mg/Kg-dry	100	7/30/04 11:19:00 PM	DMH
Benzo(a)pyrene	NELAP	13.2		**35.2**	mg/Kg-dry	100	7/30/04 11:19:00 PM	DMH
Benzo(b)fluoranthene	NELAP	13.2		**29.0**	mg/Kg-dry	100	7/30/04 11:19:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.32		**7.19**	mg/Kg-dry	10	7/29/04 10:11:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.32		**7.42**	mg/Kg-dry	10	7/29/04 10:11:00 PM	DMH
Chrysene	NELAP	13.2		**33.0**	mg/Kg-dry	100	7/30/04 11:19:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.32		**2.30**	mg/Kg-dry	10	7/29/04 10:11:00 PM	DMH
Fluoranthene	NELAP	13.2		**78.4**	mg/Kg-dry	100	7/30/04 11:19:00 PM	DMH
Fluorene	NELAP	13.2		**90.5**	mg/Kg-dry	100	7/30/04 11:19:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.32		**6.03**	mg/Kg-dry	10	7/29/04 10:11:00 PM	DMH
Naphthalene	NELAP	65.8		**794**	mg/Kg-dry	500	8/2/04 11:46:00 AM	DMH
Phenanthrene	NELAP	32.9		**247**	mg/Kg-dry	250	7/30/04 11:57:00 PM	DMH
Pyrene	NELAP	32.9		**114**	mg/Kg-dry	250	7/30/04 11:57:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**71.8**	%REC	10	7/29/04 10:11:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**71.8**	%REC	10	7/29/04 10:11:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**80.0**	%REC	10	7/29/04 10:11:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	267		**11200**	µg/Kg-dry	125	8/1/04 6:29:00 PM	HLR
Toluene	NELAP	1340	J	**740**	µg/Kg-dry	125	8/1/04 6:29:00 PM	HLR
Ethylbenzene	NELAP	1340		**46200**	µg/Kg-dry	125	8/1/04 6:29:00 PM	HLR
Xylenes, Total	NELAP	1340		**33700**	µg/Kg-dry	125	8/1/04 6:29:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**91.8**	%REC	125	8/1/04 6:29:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**101**	%REC	125	8/1/04 6:29:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**98.5**	%REC	125	8/1/04 6:29:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	125	8/1/04 6:29:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-041
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-17 (16-17')
Collection Date: 7/22/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.9**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.1**	%	1	7/27/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	554		**12900 #**	mg/Kg-dry	100	7/28/04 10:52:00 AM	DMH
Kerosene	NELAP	554		**ND**	mg/Kg-dry	100	7/28/04 10:52:00 AM	DMH
Mineral Spirits	NELAP	554		**ND**	mg/Kg-dry	100	7/28/04 10:52:00 AM	DMH
Motor Oil	NELAP	554		**ND**	mg/Kg-dry	100	7/28/04 10:52:00 AM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	100	7/28/04 10:52:00 AM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	31.8		**54.6**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Acenaphthylene	NELAP	31.8		**389**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Anthracene	NELAP	31.8		**155**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Benzo(a)anthracene	NELAP	31.8		**79.0**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Benzo(a)pyrene	NELAP	31.8		**92.0**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Benzo(b)fluoranthene	NELAP	31.8		**72.6**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	3.18		**17.7**	mg/Kg-dry	10	7/29/04 10:51:00 PM	DMH
Benzo(k)fluoranthene	NELAP	3.18		**21.8**	mg/Kg-dry	10	7/29/04 10:51:00 PM	DMH
Chrysene	NELAP	31.8		**72.5**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	3.18		**5.64**	mg/Kg-dry	10	7/29/04 10:51:00 PM	DMH
Fluoranthene	NELAP	31.8		**168**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Fluorene	NELAP	31.8		**204**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	3.18		**17.3**	mg/Kg-dry	10	7/29/04 10:51:00 PM	DMH
Naphthalene	NELAP	318		**2160**	mg/Kg-dry	1000	7/31/04 12:35:00 AM	DMH
Phenanthrene	NELAP	318		**613**	mg/Kg-dry	1000	7/31/04 12:35:00 AM	DMH
Pyrene	NELAP	31.8		**244**	mg/Kg-dry	100	7/30/04 4:03:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**39.9**	%REC	10	7/29/04 10:51:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**29.9**	%REC	10	7/29/04 10:51:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**97.7**	%REC	10	7/29/04 10:51:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	7640		**444000**	µg/Kg-dry	5000	8/2/04 12:00:00 PM	HLR
Toluene	NELAP	38200		**676000**	µg/Kg-dry	5000	8/2/04 12:00:00 PM	HLR
Ethylbenzene	NELAP	38200		**122000**	µg/Kg-dry	5000	8/2/04 12:00:00 PM	HLR
Xylenes, Total	NELAP	38200		**549000**	µg/Kg-dry	5000	8/2/04 12:00:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**95.5**	%REC	5000	8/2/04 12:00:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**101**	%REC	5000	8/2/04 12:00:00 PM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-041
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-17 (16-17')
Collection Date: 7/22/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**99.2**	%REC	5000	8/2/04 12:00:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	5000	8/2/04 12:00:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-042
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-28 (27-28')
Collection Date: 7/22/04 10:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.1**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.9**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**4.57**	mg/Kg-dry	1	8/3/04 11:11:59 AM	JMW
Barium	NELAP	0.50		**20.1**	mg/Kg-dry	1	8/2/04 6:49:05 PM	SAM
Cadmium	NELAP	0.20		**< 0.20**	mg/Kg-dry	1	8/2/04 6:49:05 PM	SAM
Chromium	NELAP	1.00		**11.5**	mg/Kg-dry	1	8/2/04 6:08:19 PM	JMW
Lead	NELAP	4.00		**9.98**	mg/Kg-dry	1	8/2/04 6:49:05 PM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	8/2/04 6:49:05 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	8/2/04 6:49:05 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
1,2-Dichlorobenzene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
1,3-Dichlorobenzene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
1,4-Dichlorobenzene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2,4,5-Trichlorophenol	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2,4,6-Trichlorophenol	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2,4-Dichlorophenol	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2,4-Dimethylphenol	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2,4-Dinitrophenol	NELAP	1.11		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2,4-Dinitrotoluene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2,6-Dinitrotoluene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2-Chloronaphthalene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2-Chlorophenol	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2-Methylnaphthalene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2-Nitroaniline	NELAP	1.11		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
2-Nitrophenol	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
3,3´-Dichlorobenzidine	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
3-Nitroaniline	NELAP	1.11		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	1.11		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
4-Chloro-3-methylphenol	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
4-Chloroaniline	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
4-Nitroaniline	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-042
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-28 (27-28')
Collection Date: 7/22/04 10:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Acenaphthene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Acenaphthylene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Anthracene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Benzo(a)anthracene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Benzo(a)pyrene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Benzo(b)fluoranthene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Benzo(g,h,i)perylene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Benzo(k)fluoranthene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	0.505		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Butyl benzyl phthalate	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Carbazole		0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Chrysene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Di-n-butyl phthalate	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Di-n-octyl phthalate	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Dibenzofuran	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Diethyl phthalate	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Dimethyl phthalate		0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Fluoranthene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Fluorene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Hexachlorobenzene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Hexachlorobutadiene	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Hexachlorocyclopentadiene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Hexachloroethane	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Isophorone	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
m,p-Cresol	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
N-Nitrosodiphenylamine	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Naphthalene	NELAP	0.387		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Nitrobenzene	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
o-Cresol	NELAP	0.553		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Pentachlorophenol	NELAP	2.21		ND	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-042
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-28 (27-28')
Collection Date: 7/22/04 10:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Phenol	NELAP	0.387		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Pyrene	NELAP	0.553		**ND**	mg/Kg-dry	1	7/30/04 5:36:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**79.1**	%REC	1	7/30/04 5:36:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**82.2**	%REC	1	7/30/04 5:36:00 PM	SML
Surr: 2-Fluorophenol		27-111		**77.5**	%REC	1	7/30/04 5:36:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**78.9**	%REC	1	7/30/04 5:36:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**86.5**	%REC	1	7/30/04 5:36:00 PM	SML
Surr: Phenol-d5		33.7-123		**88.1**	%REC	1	7/30/04 5:36:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
1,1,2-Trichloroethane	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
1,1-Dichloroethane	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
1,1-Dichloroethene	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
1,2-Dichloroethane	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
1,2-Dichloropropane	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
2-Butanone	NELAP	46.1		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
2-Hexanone	NELAP	46.1		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
4-Methyl-2-pentanone	NELAP	46.1		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Acetone	NELAP	46.1		**57.5**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Benzene	NELAP	0.9		**2.3**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Bromodichloromethane	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Bromoform	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Bromomethane	NELAP	9.2		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Carbon disulfide	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Carbon tetrachloride	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Chlorobenzene	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Chloroethane	NELAP	9.2		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Chloroform	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Chloromethane	NELAP	9.2		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	3.7		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Dibromochloromethane	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Ethylbenzene	NELAP	4.6	J	**1.3**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Methyl tert-butyl ether	NELAP	1.8		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Methylene chloride	NELAP	4.6	J	**1.6**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-042
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B506-28 (27-28')
Collection Date: 7/22/04 10:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Tetrachloroethene	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Toluene	NELAP	4.6	J	**3.6**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	3 7		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Trichloroethene	NELAP	4.6		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Vinyl chloride	NELAP	1.8		**ND**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Xylenes, Total	NELAP	4.6	J	**4.0**	µg/Kg-dry	1	8/1/04 6:12:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**108**	%REC	1	8/1/04 6:12:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**74.2**	%REC	1	8/1/04 6:12:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**108**	%REC	1	8/1/04 6:12:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**87.9**	%REC	1	8/1/04 6:12:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.010	J	**0.008**	mg/Kg-dry	1	8/2/04	JMW
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/30/04 4:01:00 PM	SML
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.16**		1	7/27/04 3:26:00 PM	JLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-043
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B516-3 (2-3')
Collection Date: 7/22/04 11:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.4**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**79.6**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		**28.7**	mg/Kg-dry	1	8/3/04 11:13:56 AM	JMW
Barium	NELAP	1.00		**134**	mg/Kg-dry	2	8/3/04 9:58:58 AM	SAM
Cadmium	NELAP	0.40		**1.36**	mg/Kg-dry	2	8/3/04 9:58:58 AM	SAM
Chromium	NELAP	1.00		**40.3**	mg/Kg-dry	1	8/2/04 6:11:26 PM	JMW
Lead	NELAP	8.00		**165**	mg/Kg-dry	2	8/3/04 9:58:58 AM	SAM
Selenium	NELAP	4.00		**< 4.00**	mg/Kg-dry	1	8/2/04 6:54:24 PM	SAM
Silver	NELAP	1.00		**< 1.00**	mg/Kg-dry	1	8/2/04 6:54:24 PM	SAM
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	18.1		**ND**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Acenaphthylene	NELAP	18.1		**40.1**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Anthracene	NELAP	18.1	J	**9.7**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Benzo(a)anthracene	NELAP	18.1		**42.2**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Benzo(a)pyrene	NELAP	18.1		**119**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Benzo(b)fluoranthene	NELAP	18.1		**130**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	18.1		**50.4**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Benzo(k)fluoranthene	NELAP	18.1		**36.4**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Chrysene	NELAP	18.1		**62.3**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	18.1	J	**14**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Fluoranthene	NELAP	18.1		**27.2**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Fluorene	NELAP	18.1	J	**4.0**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	18.1		**46.9**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Naphthalene	NELAP	18.1	J	**10**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Phenanthrene	NELAP	18.1	J	**8.7**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Pyrene	NELAP	18.1		**66.7**	mg/Kg-dry	10	7/29/04 11:30:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	10	7/29/04 11:30:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	10	7/29/04 11:30:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	10	7/29/04 11:30:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1.2		**5.1**	µg/Kg-dry	1	8/2/04 12:35:00 PM	HLR
Toluene	NELAP	6.0	J	**4.5**	µg/Kg-dry	1	8/2/04 12:35:00 PM	HLR
Ethylbenzene	NELAP	6.0	J	**5.4**	µg/Kg-dry	1	8/2/04 12:35:00 PM	HLR
Xylenes, Total	NELAP	6.0		**6.5**	µg/Kg-dry	1	8/2/04 12:35:00 PM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-043
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B516-3 (2-3')
Collection Date: 7/22/04 11:40:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		**101**	%REC	1	8/2/04 12:35:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.1**	%REC	1	8/2/04 12:35:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**101**	%REC	1	8/2/04 12:35:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**98.5**	%REC	1	8/2/04 12:35:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		**0.491**	mg/Kg-dry	1	8/2/04	JMW
SW-846 9010, 9014								
Cyanide	NELAP	3.14		**41.6**	mg/kg-dry	1	8/4/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.53**		1	7/27/04 3:27:00 PM	JLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-044
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B516-5 (4-5')
Collection Date: 7/22/04 12:02:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**20.9**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1 •		**79.1**	%	1	7/27/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	634		**5410**	mg/Kg-dry	100	7/28/04 11:21:00 AM	DMH
Kerosene	NELAP	634		**ND**	mg/Kg-dry	100	7/28/04 11:21:00 AM	DMH
Mineral Spirits	NELAP	634		**ND**	mg/Kg-dry	100	7/28/04 11:21:00 AM	DMH
Motor Oil	NELAP	634		**ND**	mg/Kg-dry	100	7/28/04 11:21:00 AM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	100	7/28/04 11:21:00 AM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	1.95		**7.50**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Acenaphthylene	NELAP	1.95		**4.97**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Anthracene	NELAP	1.95		**3.75**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Benzo(a)anthracene	NELAP	1.95		**7.19**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Benzo(a)pyrene	NELAP	1.95		**15.5**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Benzo(b)fluoranthene	NELAP	1.95		**13.3**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	1.95		**4.98**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Benzo(k)fluoranthene	NELAP	1.95		**4.25**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Chrysene	NELAP	1.95		**8.45**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	1.95	J	**1.3**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Fluoranthene	NELAP	1.95		**7.63**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Fluorene	NELAP	1.95		**5.51**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.95		**4.47**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Naphthalene	NELAP	1.95		**23.9**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Phenanthrene	NELAP	1.95		**11.6**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Pyrene	NELAP	1.95		**14.5**	mg/Kg-dry	5	7/30/04 12:09:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**76.8**	%REC	5	7/30/04 12:09:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**60.0**	%REC	5	7/30/04 12:09:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**74.8**	%REC	5	7/30/04 12:09:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	27.1		**656**	µg/Kg-dry	12.5	8/1/04 8:04:00 PM	HLR
Toluene	NELAP	135		**289**	µg/Kg-dry	12.5	8/1/04 8:04:00 PM	HLR
Ethylbenzene	NELAP	135		**4720**	µg/Kg-dry	12.5	8/1/04 8:04:00 PM	HLR
Xylenes, Total	NELAP	135		**1480**	µg/Kg-dry	12.5	8/1/04 8:04:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**95.6**	%REC	12.5	8/1/04 8:04:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**98.5**	%REC	12.5	8/1/04 8:04:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-044
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B516-5 (4-5')
Collection Date: 7/22/04 12:02:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**95.6**	%REC	12.5	8/1/04 8:04:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	12.5	8/1/04 8:04:00 PM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B516-5D (4-5')
Lab ID:	04070635-045	**Collection Date:**	7/22/04 12:05:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**21.8**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**78.2**	%	1	7/27/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	63.8		**2000 #**	mg/Kg-dry	10	7/27/04 2:53:00 PM	DMH
Kerosene	NELAP	63.8		**ND**	mg/Kg-dry	10	7/27/04 2:53:00 PM	DMH
Mineral Spirits	NELAP	63.8		**ND**	mg/Kg-dry	10	7/27/04 2:53:00 PM	DMH
Motor Oil	NELAP	63.8		**ND**	mg/Kg-dry	10	7/27/04 2:53:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140		**102**	%REC	10	7/27/04 2:53:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	2.41		**3.27**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Acenaphthylene	NELAP	2.41		**3.69**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Anthracene	NELAP	2.41		**2.67**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Benzo(a)anthracene	NELAP	2.41		**7.73**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Benzo(a)pyrene	NELAP	2.41		**15.4**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Benzo(b)fluoranthene	NELAP	2.41		**14.3**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Benzo(g,h,i)perylene	NELAP	2.41		**5.61**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Benzo(k)fluoranthene	NELAP	2.41		**4.07**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Chrysene	NELAP	2.41		**8.08**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	2.41	J	**1.5**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Fluoranthene	NELAP	2.41		**7.11**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Fluorene	NELAP	2.41		**3.25**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	2.41		**4.99**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Naphthalene	NELAP	2.41		**9.25**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Phenanthrene	NELAP	2.41		**7.08**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Pyrene	NELAP	2.41		**14.2**	mg/Kg-dry	10	7/30/04 12:48:00 AM	DMH
Surr: 2-Fluorobiphenyl		10-130		**77.9**	%REC	10	7/30/04 12:48:00 AM	DMH
Surr: Nitrobenzene-d5		10-130		**67.7**	%REC	10	7/30/04 12:48:00 AM	DMH
Surr: p-Terphenyl-d14		10-130		**79.9**	%REC	10	7/30/04 12:48:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	29.0		**752**	µg/Kg-dry	12.5	8/1/04 8:36:00 PM	HLR
Toluene	NELAP	145		**199**	µg/Kg-dry	12.5	8/1/04 8:36:00 PM	HLR
Ethylbenzene	NELAP	580		**8490**	µg/Kg-dry	50	8/2/04 1:07:00 PM	HLR
Xylenes, Total	NELAP	145		**1670**	µg/Kg-dry	12.5	8/1/04 8:36:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**94.5**	%REC	12.5	8/1/04 8:36:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**97.9**	%REC	12.5	8/1/04 8:36:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B516-5D (4-5')
Lab ID:	04070635-045	**Collection Date:**	7/22/04 12:05:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**95.9**	%REC	12.5	8/1/04 8:36:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	12.5	8/1/04 8:36:00 PM	HLR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-046
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B516-14 (13-14')
Collection Date: 7/22/04 1:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**12.1**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**87.9**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.570		**1.94**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Acenaphthylene	NELAP	0.570		**2.75**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Anthracene	NELAP	0.570		**5.96**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Benzo(a)anthracene	NELAP	0.570		**3.03**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Benzo(a)pyrene	NELAP	0.570		**3.61**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.570		**2.50**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.570		**1.19**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.570		**0.851**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Chrysene	NELAP	0.570		**2.85**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.570	J	**0.40**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Fluoranthene	NELAP	0.570		**7.32**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Fluorene	NELAP	0.570		**6.76**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.570		**1.09**	mg/Kg-dry	5	7/30/04 5:32:00 PM	DMH
Naphthalene	NELAP	11.4		**126**	mg/Kg-dry	100	8/2/04 12:26:00 PM	DMH
Phenanthrene	NELAP	11.4		**18.0**	mg/Kg-dry	100	8/2/04 12:26:00 PM	DMH
Pyrene	NELAP	8.54		**9.53**	mg/Kg-dry	100	8/2/04 12:26:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**54.7**	%REC	5	7/30/04 5:32:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**48.9**	%REC	5	7/30/04 5:32:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**74.7**	%REC	5	7/30/04 5:32:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	90.9		**5450**	µg/Kg-dry	50	8/2/04 1:38:00 PM	HLR
Toluene	NELAP	454		**1180**	µg/Kg-dry	50	8/2/04 1:38:00 PM	HLR
Ethylbenzene	NELAP	454		**11400**	µg/Kg-dry	50	8/2/04 1:38:00 PM	HLR
Xylenes, Total	NELAP	454		**25300**	µg/Kg-dry	50	8/2/04 1:38:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**96.5**	%REC	50	8/2/04 1:38:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**99.3**	%REC	50	8/2/04 1:38:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.1**	%REC	50	8/2/04 1:38:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	50	8/2/04 1:38:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-047
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B516-24 (23-24')
Collection Date: 7/22/04 1:50:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.4**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.6**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Acenaphthylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Benzo(a)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Benzo(a)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Chrysene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Fluoranthene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Fluorene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.113		**ND**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Naphthalene	NELAP	0.113	J	**0.057**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Phenanthrene	NELAP	0.113	J	**0.018**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Pyrene	NELAP	0.113	J	**0.012**	mg/Kg-dry	1	7/29/04 12:01:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**65.1**	%REC	1	7/29/04 12:01:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**55.6**	%REC	1	7/29/04 12:01:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**81.5**	%REC	1	7/29/04 12:01:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8	J	**0.7**	µg/Kg-dry	1	8/1/04 9:39:00 PM	HLR
Toluene	NELAP	4.0	J	**1.1**	µg/Kg-dry	1	8/1/04 9:39:00 PM	HLR
Ethylbenzene	NELAP	4.0		**ND**	µg/Kg-dry	1	8/1/04 9:39:00 PM	HLR
Xylenes, Total	NELAP	4.0	J	**1.5**	µg/Kg-dry	1	8/1/04 9:39:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**100**	%REC	1	8/1/04 9:39:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**95.0**	%REC	1	8/1/04 9:39:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		**99.7**	%REC	1	8/1/04 9:39:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		**100**	%REC	1	8/1/04 9:39:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-048
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-3 (2-3')
Collection Date: 7/22/04 2:20:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**12.4**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**87.6**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**11.3**	mg/Kg-dry	1	8/3/04 11:15:53 AM	JMW
Barium	NELAP	0.48		**128**	mg/Kg-dry	1	8/2/04 7:00:13 PM	SAM
Cadmium	NELAP	0.19		**0.29**	mg/Kg-dry	1	8/2/04 7:00:13 PM	SAM
Chromium	NELAP	0.96		**15.7**	mg/Kg-dry	1	8/2/04 6:14:26 PM	JMW
Lead	NELAP	3.85		**113**	mg/Kg-dry	1	8/2/04 7:00:13 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	8/2/04 7:00:13 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	8/2/04 7:00:13 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
1,2-Dichlorobenzene	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
1,3-Dichlorobenzene	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
1,4-Dichlorobenzene	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2,4,5-Trichlorophenol	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2,4,6-Trichlorophenol	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2,4-Dichlorophenol	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2,4-Dimethylphenol	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2,4-Dinitrophenol	NELAP	16.0		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2,4-Dinitrotoluene	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2,6-Dinitrotoluene	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2-Chloronaphthalene	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2-Chlorophenol	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2-Methylnaphthalene	NELAP	5 59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2-Nitroaniline	NELAP	16.0		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
2-Nitrophenol	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
3,3'-Dichlorobenzidine	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
3-Nitroaniline	NELAP	16.0		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
4,6-Dinitro-2-methylphenol	NELAP	16.0		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
4-Bromophenyl phenyl ether	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
4-Chloro-3-methylphenol	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
4-Chloroaniline	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
4-Chlorophenyl phenyl ether	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
4-Nitroaniline	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-048
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-3 (2-3')
Collection Date: 7/22/04 2:20:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Acenaphthene	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Acenaphthylene	NELAP	5.59	J	**2.6**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Anthracene	NELAP	5.59	J	**2.4**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Benzo(a)anthracene	NELAP	5.59	J	**4.6**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Benzo(a)pyrene	NELAP	5.59		**5.86**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Benzo(b)fluoranthene	NELAP	5.59		**7.59**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Benzo(g,h,i)perylene	NELAP	5.59	J	**3.8**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Benzo(k)fluoranthene	NELAP	5.59	J	**2.7**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Bis(2-chloroethoxy)methane	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Bis(2-chloroethyl)ether	NELAP	7.28		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Bis(2-chloroisopropyl)ether	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Bis(2-ethylhexyl)phthalate	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Butyl benzyl phthalate	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Carbazole		7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Chrysene	NELAP	5.59	J	**4.9**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Di-n-butyl phthalate	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Di-n-octyl phthalate	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Dibenzo(a,h)anthracene	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Dibenzofuran	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Diethyl phthalate	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Dimethyl phthalate		5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Fluoranthene	NELAP	5.59		**6.30**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Fluorene	NELAP	5.59	J	**1.9**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Hexachlorobenzene	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Hexachlorobutadiene	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Hexachlorocyclopentadiene	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Hexachloroethane	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Indeno(1,2,3-cd)pyrene	NELAP	5.59	J	**3.4**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Isophorone	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
m,p-Cresol	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
N-Nitroso-di-n-propylamine	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
N-Nitrosodiphenylamine	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Naphthalene	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Nitrobenzene	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
o-Cresol	NELAP	7.98		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Pentachlorophenol	NELAP	31.9		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-048
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-3 (2-3')
Collection Date: 7/22/04 2:20:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	5.59		**6.52**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Phenol	NELAP	5.59		**ND**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Pyrene	NELAP	7.98		**8.53**	mg/Kg-dry	5	8/2/04 7:49:00 PM	SML
Surr: 2,4,6-Tribromophenol		31-123		**87.5**	%REC	5	8/2/04 7:49:00 PM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**101**	%REC	5	8/2/04 7:49:00 PM	SML
Surr: 2-Fluorophenol		27-111		**85.2**	%REC	5	8/2/04 7:49:00 PM	SML
Surr: Nitrobenzene-d5		28.9-113		**94.7**	%REC	5	8/2/04 7:49:00 PM	SML
Surr: p-Terphenyl-d14		25-144		**101**	%REC	5	8/2/04 7:49:00 PM	SML
Surr: Phenol-d5		33.7-123		**102**	%REC	5	8/2/04 7:49:00 PM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
1,1,2-Trichloroethane	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
1,1-Dichloroethane	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
1,1-Dichloroethene	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
1,2-Dichloroethane	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
1,2-Dichloropropane	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
2-Butanone	NELAP	59.1		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
2-Hexanone	NELAP	59.1		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
4-Methyl-2-pentanone	NELAP	59.1		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Acetone	NELAP	59.1		**126**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Benzene	NELAP	1.2		**32.6**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Bromodichloromethane	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Bromoform	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Bromomethane	NELAP	11.8		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Carbon disulfide	NELAP	5.9		**10.9**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Carbon tetrachloride	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Chlorobenzene	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Chloroethane	NELAP	11.8		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Chloroform	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Chloromethane	NELAP	11.8		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	4.7		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Dibromochloromethane	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Ethylbenzene	NELAP	5.9		**17.4**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Methyl tert-butyl ether	NELAP	2.4		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Methylene chloride	NELAP	5.9	J	**1.6**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-048
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-3 (2-3')
Collection Date: 7/22/04 2:20:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	5.9	J	**3.2**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Tetrachloroethene	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Toluene	NELAP	5.9		**10.3**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	4.7		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Trichloroethene	NELAP	5.9		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Vinyl chloride	NELAP	2.4		**ND**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Xylenes, Total	NELAP	5.9		**25.4**	µg/Kg-dry	1	8/1/04 6:43:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**118**	%REC	1	8/1/04 6:43:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**69.7**	%REC	1	8/1/04 6:43:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121	S	**122**	%REC	1	8/1/04 6:43:00 AM	HLR
Surr: Toluene-d8		82.8-112.8	S	**82.6**	%REC	1	8/1/04 6:43:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.110		**4.20**	mg/Kg-dry	10	8/2/04	JMW
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		11		**ND**	mg/Kg-dry	1	7/30/04 4:17:00 PM	SML
SW-846 9010, 9014								
Cyanide	NELAP	0.57		**16.6**	mg/kg-dry	1	8/3/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.83**		1	7/27/04 4:04:00 PM	JLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-049
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-3D (2-3')
Collection Date: 7/22/04 2:22:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**16.2**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**83.8**	%	1	7/27/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.40		**13.4**	mg/Kg-dry	1	8/3/04 11:17:50 AM	JMW
Barium	NELAP	0.48		**134**	mg/Kg-dry	1	8/2/04 7:05:32 PM	SAM
Cadmium	NELAP	0.19		**0.45**	mg/Kg-dry	1	8/2/04 7:05:32 PM	SAM
Chromium	NELAP	0.96		**20.9**	mg/Kg-dry	1	8/2/04 6:17:24 PM	JMW
Lead	NELAP	3.85		**208**	mg/Kg-dry	1	8/2/04 7:05:32 PM	SAM
Selenium	NELAP	3.85		**< 3.85**	mg/Kg-dry	1	8/2/04 7:05:32 PM	SAM
Silver	NELAP	0.96		**< 0.96**	mg/Kg-dry	1	8/2/04 7:05:32 PM	SAM
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
1,2-Dichlorobenzene	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
1,3-Dichlorobenzene	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
1,4-Dichlorobenzene	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2,4,5-Trichlorophenol	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2,4,6-Trichlorophenol	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2,4-Dichlorophenol	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2,4-Dimethylphenol	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2,4-Dinitrophenol	NELAP	24.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2,4-Dinitrotoluene	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2,6-Dinitrotoluene	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2-Chloronaphthalene	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2-Chlorophenol	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2-Methylnaphthalene	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2-Nitroaniline	NELAP	24.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
2-Nitrophenol	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
3,3'-Dichlorobenzidine	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
3-Nitroaniline	NELAP	24.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
4,6-Dinitro-2-methylphenol	NELAP	24.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
4-Bromophenyl phenyl ether	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
4-Chloro-3-methylphenol	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
4-Chloroaniline	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
4-Chlorophenyl phenyl ether	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
4-Nitroaniline	NELAP	12.0		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-049
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-3D (2-3')
Collection Date: 7/22/04 2:22:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
4-Nitrophenol	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Acenaphthene	NELAP	8.40	J	5.1	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Acenaphthylene	NELAP	8.40	J	5.1	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Anthracene	NELAP	8.40	J	7.1	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Benzo(a)anthracene	NELAP	8.40		10.7	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Benzo(a)pyrene	NELAP	8.40		11.2	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Benzo(b)fluoranthene	NELAP	8.40		13.5	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Benzo(g,h,i)perylene	NELAP	8.40		11.0	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Benzo(k)fluoranthene	NELAP	8.40	J	4.2	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Bis(2-chloroethoxy)methane	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Bis(2-chloroethyl)ether	NELAP	10.9		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Bis(2-chloroisopropyl)ether	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Bis(2-ethylhexyl)phthalate	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Butyl benzyl phthalate	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Carbazole		12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Chrysene	NELAP	8.40		11.5	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Di-n-butyl phthalate	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Di-n-octyl phthalate	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Dibenzo(a,h)anthracene	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Dibenzofuran	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Diethyl phthalate	NELAP	12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Dimethyl phthalate		8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Fluoranthene	NELAP	8.40		17.1	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Fluorene	NELAP	8.40	J	6.0	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Hexachlorobenzene	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Hexachlorobutadiene	NELAP	12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Hexachlorocyclopentadiene	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Hexachloroethane	NELAP	12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Indeno(1,2,3-cd)pyrene	NELAP	8.40		8.48	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Isophorone	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
m,p-Cresol	NELAP	12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
N-Nitroso-di-n-propylamine	NELAP	12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
N-Nitrosodiphenylamine	NELAP	12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Naphthalene	NELAP	8.40		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Nitrobenzene	NELAP	12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
o-Cresol	NELAP	12.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Pentachlorophenol	NELAP	48.0		ND	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-049
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-3D (2-3')
Collection Date: 7/22/04 2:22:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Phenanthrene	NELAP	8.40		**21.1**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Phenol	NELAP	8.40		**ND**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Pyrene	NELAP	12.0		**22.5**	mg/Kg-dry	10	8/3/04 11:09:00 AM	SML
Surr: 2,4,6-Tribromophenol		31-123		**107**	%REC	10	8/3/04 11:09:00 AM	SML
Surr: 2-Fluorobiphenyl		14.6-132		**131**	%REC	10	8/3/04 11:09:00 AM	SML
Surr: 2-Fluorophenol		27-111	S	**115**	%REC	10	8/3/04 11:09:00 AM	SML
Surr: Nitrobenzene-d5		28.9-113	S	**134**	%REC	10	8/3/04 11:09:00 AM	SML
Surr: p-Terphenyl-d14		25-144		**131**	%REC	10	8/3/04 11:09:00 AM	SML
Surr: Phenol-d5		33.7-123	S	**131**	%REC	10	8/3/04 11:09:00 AM	SML
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
1,1,2,2-Tetrachloroethane	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
1,1,2-Trichloroethane	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
1,1-Dichloroethane	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
1,1-Dichloroethene	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
1,2-Dichloroethane	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
1,2-Dichloropropane	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
2-Butanone	NELAP	59.5		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
2-Hexanone	NELAP	59.5		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
4-Methyl-2-pentanone	NELAP	59.5		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Acetone	NELAP	59.5		**120**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Benzene	NELAP	1.2		**19.2**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Bromodichloromethane	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Bromoform	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Bromomethane	NELAP	11.9		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Carbon disulfide	NELAP	6.0	J	**5.9**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Carbon tetrachloride	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Chlorobenzene	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Chloroethane	NELAP	11.9		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Chloroform	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Chloromethane	NELAP	11.9		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
cis-1,2-Dichloroethene	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
cis-1,3-Dichloropropene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Dibromochloromethane	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Ethylbenzene	NELAP	6.0		**8.0**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Methyl tert-butyl ether	NELAP	2.4		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Methylene chloride	NELAP	6.0	J	**1.9**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-049
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-3D (2-3')
Collection Date: 7/22/04 2:22:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Styrene	NELAP	6.0	J	**2.3**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Tetrachloroethene	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Toluene	NELAP	6.0	J	**5.7**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
trans-1,2-Dichloroethene	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
trans-1,3-Dichloropropene	NELAP	4.8		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Trichloroethene	NELAP	6.0		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Vinyl chloride	NELAP	2.4		**ND**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Xylenes, Total	NELAP	6.0		**11.1**	µg/Kg-dry	1	8/1/04 7:14:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**105**	%REC	1	8/1/04 7:14:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120	S	**73.8**	%REC	1	8/1/04 7:14:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**108**	%REC	1	8/1/04 7:14:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**88.9**	%REC	1	8/1/04 7:14:00 AM	HLR
SW-846 7471A								
Mercury	NELAP	0.115		**4.46**	mg/Kg-dry	10	8/2/04	JMW
SW-846 8015, MISCELLANEOUS COMPOUNDS BY GC/FID								
n-Butanol		12		**ND**	mg/Kg-dry	1	7/30/04 4:33:00 PM	SML
SW-846 9010, 9014								
Cyanide	NELAP	0.58		**18.3**	mg/kg-dry	1	8/3/04	ADH
SW-846 9045C								
pH (1:1)	NELAP	1.00		**7.81**		1	7/27/04 4:05:00 PM	JLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT:	Philip Environmental	**Client Project:**	A831-735002-012901-225/IP Champa
WorkOrder:	04070635	**Client Sample ID:**	B514-8 (7-8')
Lab ID:	04070635-050	**Collection Date:**	7/22/04 3:30:00 PM
Report Date:	11-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**22.7**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**77.3**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	12.7		**48.1**	mg/Kg-dry	100	8/2/04 3:18:00 PM	DMH
Acenaphthylene	NELAP	1.27		**8.83**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Anthracene	NELAP	12.7		**19.3**	mg/Kg-dry	100	8/2/04 3:18:00 PM	DMH
Benzo(a)anthracene	NELAP	1.27		**10.8**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Benzo(a)pyrene	NELAP	1.27		**12.9**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Benzo(b)fluoranthene	NELAP	1.27		**8.94**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	1.27		**2.75**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Benzo(k)fluoranthene	NELAP	1.27		**2.59**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Chrysene	NELAP	1.27		**10.7**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	1.27	J	**0.85**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Fluoranthene	NELAP	12.7		**23.6**	mg/Kg-dry	100	8/2/04 3:18:00 PM	DMH
Fluorene	NELAP	12.7		**36.3**	mg/Kg-dry	100	8/2/04 3:18:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	1.27		**2.69**	mg/Kg-dry	10	7/30/04 6:11:00 PM	DMH
Naphthalene	NELAP	12.7		**105**	mg/Kg-dry	100	8/2/04 3:18:00 PM	DMH
Phenanthrene	NELAP	12.7		**71.5**	mg/Kg-dry	100	8/2/04 3:18:00 PM	DMH
Pyrene	NELAP	12.7		**33.0**	mg/Kg-dry	100	8/2/04 3:18:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**63.8**	%REC	10	7/30/04 6:11:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**54.0**	%REC	10	7/30/04 6:11:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**85.9**	%REC	10	7/30/04 6:11:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	63.0		**3100**	µg/Kg-dry	25	8/2/04 1:17:00 AM	HLR
Toluene	NELAP	315		**446**	µg/Kg-dry	25	8/2/04 1:17:00 AM	HLR
Ethylbenzene	NELAP	1260		**23500**	µg/Kg-dry	100	8/2/04 2:10:00 PM	HLR
Xylenes, Total	NELAP	315		**19800**	µg/Kg-dry	25	8/2/04 1:17:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**98.4**	%REC	25	8/2/04 1:17:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**96.8**	%REC	25	8/2/04 1:17:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**98.7**	%REC	25	8/2/04 1:17:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	25	8/2/04 1:17:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-051
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-17 (16-17')
Collection Date: 7/22/04 4:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**9.9**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**90.1**	%	1	7/27/04	JRS
SW-846 3550B, 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	1690		**45900 #**	mg/Kg-dry	50	8/1/04 4:42:00 PM	DMH
Kerosene	NELAP	1690		**ND**	mg/Kg-dry	50	8/1/04 4:42:00 PM	DMH
Mineral Spirits	NELAP	1690		**ND**	mg/Kg-dry	50	8/1/04 4:42:00 PM	DMH
Motor Oil	NELAP	1690		**14800 #**	mg/Kg-dry	50	8/1/04 4:42:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	**0**	%REC	50	8/1/04 4:42:00 PM	DMH
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	163		**1490**	mg/Kg-dry	250	8/2/04 1:06:00 PM	DMH
Acenaphthylene	NELAP	65.2		**402**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Anthracene	NELAP	65.2		**602**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Benzo(a)anthracene	NELAP	65.2		**254**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Benzo(a)pyrene	NELAP	65.2		**292**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Benzo(b)fluoranthene	NELAP	65.2		**202**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	65.2		**101**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Benzo(k)fluoranthene	NELAP	65.2	J	**59**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Chrysene	NELAP	65.2		**263**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	65.2	J	**26**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Fluoranthene	NELAP	65.2		**660**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Fluorene	NELAP	65.2		**836**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	65.2		**84.5**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Naphthalene	NELAP	652		**7660**	mg/Kg-dry	1000	8/2/04 2:38:00 PM	DMH
Phenanthrene	NELAP	163		**2410**	mg/Kg-dry	250	8/2/04 1:06:00 PM	DMH
Pyrene	NELAP	65.2		**1030**	mg/Kg-dry	100	7/30/04 4:53:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130	SD	**0**	%REC	100	7/30/04 4:53:00 PM	DMH
Surr: Nitrobenzene-d5		10-130	SD	**0**	%REC	100	7/30/04 4:53:00 PM	DMH
Surr: p-Terphenyl-d14		10-130	SD	**0**	%REC	100	7/30/04 4:53:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	1790		**333000**	µg/Kg-dry	1000	8/2/04 1:48:00 AM	HLR
Toluene	NELAP	8940		**266000**	µg/Kg-dry	1000	8/2/04 1:48:00 AM	HLR
Ethylbenzene	NELAP	44700		**797000**	µg/Kg-dry	5000	8/2/04 2:41:00 PM	HLR
Xylenes, Total	NELAP	8940		**721000**	µg/Kg-dry	1000	8/2/04 1:48:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**101**	%REC	1000	8/2/04 1:48:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**97.7**	%REC	1000	8/2/04 1:48:00 AM	HLR

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-051
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-17 (16-17')
Collection Date: 7/22/04 4:10:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: Dibromofluoromethane		74.1-121		**102**	%REC	1000	8/2/04 1:48:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**101**	%REC	1000	8/2/04 1:48:00 AM	HLR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070635
Lab ID: 04070635-052
Report Date: 11-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: B514-28 (27-28')
Collection Date: 7/22/04 4:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**10.1**	%	1	7/27/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**89.9**	%	1	7/27/04	JRS
SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Acenaphthylene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Anthracene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Benzo(a)anthracene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Benzo(a)pyrene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Benzo(b)fluoranthene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Benzo(g,h,i)perylene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Benzo(k)fluoranthene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Chrysene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Dibenzo(a,h)anthracene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Fluoranthene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Fluorene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Naphthalene	NELAP	0.108	J	**0.085**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Phenanthrene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Pyrene	NELAP	0.108		**ND**	mg/Kg-dry	1	7/29/04 12:40:00 PM	DMH
Surr: 2-Fluorobiphenyl		10-130		**64.1**	%REC	1	7/29/04 12:40:00 PM	DMH
Surr: Nitrobenzene-d5		10-130		**54.1**	%REC	1	7/29/04 12:40:00 PM	DMH
Surr: p-Terphenyl-d14		10-130		**75.1**	%REC	1	7/29/04 12:40:00 PM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.8	J	**0.8**	µg/Kg-dry	1	8/2/04 2:20:00 AM	HLR
Toluene	NELAP	3.8	J	**1.4**	µg/Kg-dry	1	8/2/04 2:20:00 AM	HLR
Ethylbenzene	NELAP	3.8	J	**0.9**	µg/Kg-dry	1	8/2/04 2:20:00 AM	HLR
Xylenes, Total	NELAP	3.8	J	**1.8**	µg/Kg-dry	1	8/2/04 2:20:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		**103**	%REC	1	8/2/04 2:20:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		**92.4**	%REC	1	8/2/04 2:20:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		**102**	%REC	1	8/2/04 2:20:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		**99.5**	%REC	1	8/2/04 2:20:00 AM	HLR

APPENDIX M

CSI Groundwater Analytical Data Sheets

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

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August 04, 2004

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210 West Sand Bank Road
Columbia, IL 622360230
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ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: A831-735002-012901-225/IP Champaign OrderNo. 04070740

Dear Jim Gould:

TEKLAB, INC received 19 samples on 7/28/04 2:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

CASE NARRATIVE

Client: Philip Environmental
Project: A831-735002-012901-225/IP Champaign
LabOrder: 04070740
Report Date: August 04, 2004

Analytical Comments for METHOD V_BTEX_W, SAMPLE 04070740-012B, 13B, 16B: Elevated reporting limit due to matrix interference.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-001
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 112043
Collection Date: 7/26/04 8:40:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		ND	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		92.1	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	7/29/04 7:21:00 AM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/29/04 7:21:00 AM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/29/04 7:21:00 AM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/29/04 7:21:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		103	%REC	1	7/29/04 7:21:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113 3		99.0	%REC	1	7/29/04 7:21:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		102	%REC	1	7/29/04 7:21:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		103	%REC	1	7/29/04 7:21:00 AM	RLH

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-002
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 102043
Collection Date: 7/26/04 9:43:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**ND**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**93.8**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	7/29/04 7:51:00 AM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	7/29/04 7:51:00 AM	RLH
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	7/29/04 7:51:00 AM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	7/29/04 7:51:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**105**	%REC	1	7/29/04 7:51:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**99.6**	%REC	1	7/29/04 7:51:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**101**	%REC	1	7/29/04 7:51:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**103**	%REC	1	7/29/04 7:51:00 AM	RLH

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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-003
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 110043
Collection Date: 7/26/04 10:13:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.0750		**0.0876**	mg/L	25	8/2/04	HE
Acenaphthylene		0.0375		**0.0926**	mg/L	25	8/2/04	HE
Anthracene	NELAP	0.00030		**0.0151**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**0.00033**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**0.0121**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00750		**0.00766**	mg/L	25	8/2/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**0.0246**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.0150		**0.0267**	mg/L	25	8/2/04	HE
Pyrene	NELAP	0.00030		**0.00525**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**96.2**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**15.6**	µg/L	1	7/31/04 5:24:00 AM	RLH
Toluene	NELAP	5.0	J	**2.3**	µg/L	1	7/31/04 5:24:00 AM	RLH
Ethylbenzene	NELAP	5.0		**67.5**	µg/L	1	7/31/04 5:24:00 AM	RLH
Xylenes, Total	NELAP	5.0		**37.3**	µg/L	1	7/31/04 5:24:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**101**	%REC	1	7/31/04 5:24:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**103**	%REC	1	7/31/04 5:24:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**101**	%REC	1	7/31/04 5:24:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**103**	%REC	1	7/31/04 5:24:00 AM	RLH

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-004
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 111043
Collection Date: 7/26/04 10:45:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	8/2/04	HE
Acenaphthylene		0.00150		ND	mg/L	1	8/2/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	8/2/04	HE
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	8/2/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	8/2/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	8/2/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	8/2/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	8/2/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	8/2/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	8/2/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	8/2/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	8/2/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	8/2/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	8/2/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	8/2/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	8/2/04	HE
Surr: Terphenyl-d14		62.5-135		99.4	%REC	1	8/2/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	7/29/04 8:53:00 AM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/29/04 8:53:00 AM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/29/04 8:53:00 AM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/29/04 8:53:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		105	%REC	1	7/29/04 8:53:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		99.4	%REC	1	7/29/04 8:53:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		102	%REC	1	7/29/04 8:53:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		102	%REC	1	7/29/04 8:53:00 AM	RLH

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-005
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 109043
Collection Date: 7/26/04 11:25:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	8/2/04	HE
Acenaphthylene		0.00150		**ND**	mg/L	1	8/2/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	8/2/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	8/2/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	8/2/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	8/2/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	8/2/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	8/2/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	8/2/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	8/2/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	8/2/04	HE
Fluorene	NELAP	0.00030		**ND**	mg/L	1	8/2/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	8/2/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	8/2/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	8/2/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	8/2/04	HE
Surr: Terphenyl-d14		62.5-135		**96.7**	%REC	1	8/2/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	7/31/04 5:55:00 AM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	7/31/04 5:55:00 AM	RLH
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	7/31/04 5:55:00 AM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	7/31/04 5:55:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**94.6**	%REC	1	7/31/04 5:55:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**103**	%REC	1	7/31/04 5:55:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**96.6**	%REC	1	7/31/04 5:55:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**103**	%REC	1	7/31/04 5:55:00 AM	RLH

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-006
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 104043
Collection Date: 7/26/04 11:27:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**ND**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0 00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0 00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**95.9**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	7/31/04 6:26:00 AM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	7/31/04 6:26:00 AM	RLH
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	7/31/04 6:26:00 AM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	7/31/04 6:26:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**93.2**	%REC	1	7/31/04 6:26:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**105**	%REC	1	7/31/04 6:26:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**96.8**	%REC	1	7/31/04 6:26:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**101**	%REC	1	7/31/04 6:26:00 AM	RLH

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-007
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 108043
Collection Date: 7/26/04 2:03:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**ND**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**85.4**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	7/31/04 6:56:00 AM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	7/31/04 6:56:00 AM	RLH
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	7/31/04 6:56:00 AM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	7/31/04 6:56:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**94.8**	%REC	1	7/31/04 6:56:00 AM	RLH
Surr: 4-Bromofluorobenzene		81 1-113.3		**102**	%REC	1	7/31/04 6:56:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**98.4**	%REC	1	7/31/04 6:56:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**102**	%REC	1	7/31/04 6:56:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-008
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 108943
Collection Date: 7/26/04 2:07:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**ND**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**0.00019**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**0.00029**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**94.2**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	7/31/04 7:27:00 AM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	7/31/04 7:27:00 AM	RLH
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	7/31/04 7:27:00 AM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	7/31/04 7:27:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**94.0**	%REC	1	7/31/04 7:27:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**104**	%REC	1	7/31/04 7:27:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**98.6**	%REC	1	7/31/04 7:27:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**102**	%REC	1	7/31/04 7:27:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-009
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 105043
Collection Date: 7/26/04 2:35:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**ND**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**94.9**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	7/31/04 7:58:00 AM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	7/31/04 7:58:00 AM	RLH
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	7/31/04 7:58:00 AM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	7/31/04 7:58:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**95.4**	%REC	1	7/31/04 7:58:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**103**	%REC	1	7/31/04 7:58:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**99.6**	%REC	1	7/31/04 7:58:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**101**	%REC	1	7/31/04 7:58:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-010
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: TB1
Collection Date: 7/19/04 2:30:00 PM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	7/31/04 8:29:00 AM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	7/31/04 8:29:00 AM	RLH
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	7/31/04 8:29:00 AM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	7/31/04 8:29:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**96.2**	%REC	1	7/31/04 8:29:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**103**	%REC	1	7/31/04 8:29:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**98.0**	%REC	1	7/31/04 8:29:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**101**	%REC	1	7/31/04 8:29:00 AM	RLH

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-011
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 106043
Collection Date: 7/26/04 2:46:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		ND	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		91.0	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	7/31/04 8:59:00 AM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/31/04 8:59:00 AM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/31/04 8:59:00 AM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/31/04 8:59:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		97.0	%REC	1	7/31/04 8:59:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		103	%REC	1	7/31/04 8:59:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		98.4	%REC	1	7/31/04 8:59:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		102	%REC	1	7/31/04 8:59:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-012
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 107043
Collection Date: 7/26/04 3:20:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**ND**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**0.0877**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**89.4**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	100		**760**	µg/L	50	7/31/04 11:56:00 AM	RLH
Toluene	NELAP	250		**ND**	µg/L	50	7/31/04 11:56:00 AM	RLH
Ethylbenzene	NELAP	250		**ND**	µg/L	50	7/31/04 11:56:00 AM	RLH
Xylenes, Total	NELAP	250	J	**77**	µg/L	50	7/31/04 11:56:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**95.6**	%REC	50	7/31/04 11:56:00 AM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**103**	%REC	50	7/31/04 11:56:00 AM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**98.4**	%REC	50	7/31/04 11:56:00 AM	RLH
Surr: Toluene-d8		84.1-114.5		**101**	%REC	50	7/31/04 11:56:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-013
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 107943
Collection Date: 7/26/04 3:23:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		ND	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		0.147	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		93.5	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	100		786	µg/L	50	7/31/04 12:26:00 PM	RLH
Toluene	NELAP	250		ND	µg/L	50	7/31/04 12:26:00 PM	RLH
Ethylbenzene	NELAP	250		ND	µg/L	50	7/31/04 12:26:00 PM	RLH
Xylenes, Total	NELAP	250	J	52	µg/L	50	7/31/04 12:26:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		96.8	%REC	50	7/31/04 12:26:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		102	%REC	50	7/31/04 12:26:00 PM	RLH
Surr: Dibromofluoromethane		88.9-121.2		99.6	%REC	50	7/31/04 12:26:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		102	%REC	50	7/31/04 12:26:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-014
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 116043
Collection Date: 7/26/04 3:50:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		ND	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		ND	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		97.2	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	7/31/04 12:56:00 PM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/31/04 12:56:00 PM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/31/04 12:56:00 PM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/31/04 12:56:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		96.8	%REC	1	7/31/04 12:56:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		103	%REC	1	7/31/04 12:56:00 PM	RLH
Surr: Dibromofluoromethane		88.9-121.2		100	%REC	1	7/31/04 12:56:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		102	%REC	1	7/31/04 12:56:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-015
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 113043
Collection Date: 7/26/04 4:08:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**0.0339**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**0.0707**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**0.00236**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**96.1**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**5.7**	µg/L	1	8/2/04 9:45:00 PM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	8/2/04 9:45:00 PM	RLH
Ethylbenzene	NELAP	5.0	J	**1.0**	µg/L	1	8/2/04 9:45:00 PM	RLH
Xylenes, Total	NELAP	5.0	J	**4.8**	µg/L	1	8/2/04 9:45:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**98.4**	%REC	1	8/2/04 9:45:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**98.4**	%REC	1	8/2/04 9:45:00 PM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**99.2**	%REC	1	8/2/04 9:45:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		**100**	%REC	1	8/2/04 9:45:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-016
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 114043
Collection Date: 7/26/04 4:40:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.150		**0.214**	mg/L	50	8/2/04	HE
Acenaphthylene		0.0750		**0.552**	mg/L	50	8/2/04	HE
Anthracene	NELAP	0.00030		**0.00104**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**0.00099**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**0.0206**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.150		**3.65**	mg/L	50	8/2/04	HE
Phenanthrene	NELAP	0.00060		**0.00748**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**0.00064**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**92.4**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	100		**628**	µg/L	50	7/31/04 1:57:00 PM	RLH
Toluene	NELAP	250	J	**120**	µg/L	50	7/31/04 1:57:00 PM	RLH
Ethylbenzene	NELAP	250		**868**	µg/L	50	7/31/04 1:57:00 PM	RLH
Xylenes, Total	NELAP	250		**425**	µg/L	50	7/31/04 1:57:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**98.8**	%REC	50	7/31/04 1:57:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**103**	%REC	50	7/31/04 1:57:00 PM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**100**	%REC	50	7/31/04 1:57:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		**102**	%REC	50	7/31/04 1:57:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-017
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 114543
Collection Date: 7/26/04 5:05:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**ND**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0 00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**93.4**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	7/31/04 2:27:00 PM	RLH
Toluene	NELAP	5.0	J	**1.9**	µg/L	1	7/31/04 2:27:00 PM	RLH
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	7/31/04 2:27:00 PM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	7/31/04 2:27:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**97.8**	%REC	1	7/31/04 2:27:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**101**	%REC	1	7/31/04 2:27:00 PM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**99.2**	%REC	1	7/31/04 2:27:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		**101**	%REC	1	7/31/04 2:27:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-018
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: 115043
Collection Date: 7/26/04 5:10:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**0.0135**	mg/L	1	7/30/04	HE
Acenaphthylene		0.00150		**0.0264**	mg/L	1	7/30/04	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	7/30/04	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	7/30/04	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	7/30/04	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	7/30/04	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	7/30/04	HE
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	7/30/04	HE
Fluorene	NELAP	0.00030		**0.00846**	mg/L	1	7/30/04	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	7/30/04	HE
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	7/30/04	HE
Pyrene	NELAP	0.00030		**ND**	mg/L	1	7/30/04	HE
Surr: Terphenyl-d14		62.5-135		**92.7**	%REC	1	7/30/04	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**12.9**	µg/L	1	8/2/04 10:16:00 PM	RLH
Toluene	NELAP	5.0		**ND**	µg/L	1	8/2/04 10:16:00 PM	RLH
Ethylbenzene	NELAP	5.0	J	**1.2**	µg/L	1	8/2/04 10:16:00 PM	RLH
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	8/2/04 10:16:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		**99.0**	%REC	1	8/2/04 10:16:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		**100**	%REC	1	8/2/04 10:16:00 PM	RLH
Surr: Dibromofluoromethane		88.9-121.2		**100**	%REC	1	8/2/04 10:16:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		**100**	%REC	1	8/2/04 10:16:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Philip Environmental
WorkOrder: 04070740
Lab ID: 04070740-019
Report Date: 04-Aug-04

Client Project: A831-735002-012901-225/IP Champa
Client Sample ID: TB2
Collection Date: 7/19/04 2:30:00 PM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	7/31/04 3:28:00 PM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	7/31/04 3:28:00 PM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/31/04 3:28:00 PM	RLH
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/31/04 3:28:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		84.3-135		99.4	%REC	1	7/31/04 3:28:00 PM	RLH
Surr: 4-Bromofluorobenzene		81.1-113.3		100	%REC	1	7/31/04 3:28:00 PM	RLH
Surr: Dibromofluoromethane		88.9-121.2		101	%REC	1	7/31/04 3:28:00 PM	RLH
Surr: Toluene-d8		84.1-114.5		101	%REC	1	7/31/04 3:28:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

March 22, 2005

Stu Cravens
Kelron Environmental
1213 Dorchester
Champaign, IL 61821
TEL: (217) 390-1503
FAX: (217) 355-1385

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: CHMGP/62400674

OrderNo. 05030451

Dear Stu Cravens:

TEKLAB, INC received 10 samples on 3/17/2005 9:05:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/62400674
LabOrder: 05030451
Report Date: March 22, 2005

REPORT CONTENTS

This reporting package includes the following:

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/62400674
LabOrder: 05030451
Report Date: March 22, 2005

CASE NARRATIVE

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/62400674
WorkOrder:	05030451	**Client Sample ID**	112051
Lab ID:	05030451-001	**Collection Date:**	3/15/2005 8:00:00 AM
Report Date:	22-Mar-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/19/2005 8:34:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/19/2005 8:34:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/19/2005 8:34:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/19/2005 8:34:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/19/2005 8:34:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**94.8**	%REC	1	3/19/2005 8:34:00 PM	GEK
Surr: 4-Bromofluorobenzene		81 1-113.3		**96.8**	%REC	1	3/19/2005 8:34:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**90.0**	%REC	1	3/19/2005 8:34:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**105**	%REC	1	3/19/2005 8:34:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/62400674
WorkOrder:	05030451	**Client Sample ID**	102051
Lab ID:	05030451-002	**Collection Date:**	3/15/2005 8:40:00 AM
Report Date:	22-Mar-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	3/19/2005 9:05:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	3/19/2005 9:05:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	3/19/2005 9:05:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	3/19/2005 9:05:00 PM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	3/19/2005 9:05:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		95.4	%REC	1	3/19/2005 9:05:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		93.0	%REC	1	3/19/2005 9:05:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		91.2	%REC	1	3/19/2005 9:05:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		100	%REC	1	3/19/2005 9:05:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/62400674
WorkOrder:	05030451	**Client Sample ID**	111051
Lab ID:	05030451-003	**Collection Date:**	3/15/2005 9:25:00 AM
Report Date:	22-Mar-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	3/19/2005 9:36:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	3/19/2005 9:36:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	3/19/2005 9:36:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	3/19/2005 9:36:00 PM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	3/19/2005 9:36:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		97.2	%REC	1	3/19/2005 9:36:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		92.2	%REC	1	3/19/2005 9:36:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		93.6	%REC	1	3/19/2005 9:36:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		102	%REC	1	3/19/2005 9:36:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/62400674
WorkOrder:	05030451	**Client Sample ID**	108051
Lab ID:	05030451-004	**Collection Date:**	3/15/2005 9:55:00 AM
Report Date:	22-Mar-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/19/2005 10:07:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/19/2005 10:07:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/19/2005 10:07:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/19/2005 10:07:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/19/2005 10:07:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**95.6**	%REC	1	3/19/2005 10:07:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**92.6**	%REC	1	3/19/2005 10:07:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**92.6**	%REC	1	3/19/2005 10:07:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**103**	%REC	1	3/19/2005 10:07:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/62400674
WorkOrder:	05030451	**Client Sample ID**	116051
Lab ID:	05030451-005	**Collection Date:**	3/15/2005 10:32:00 AM
Report Date:	22-Mar-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	3/20/2005 1:26:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	3/20/2005 1:26:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	3/20/2005 1:26:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	3/20/2005 1:26:00 PM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	3/20/2005 1:26:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		101	%REC	1	3/20/2005 1:26:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		93.6	%REC	1	3/20/2005 1:26:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		96.8	%REC	1	3/20/2005 1:26:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		101	%REC	1	3/20/2005 1:26:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05030451
Lab ID: 05030451-006
Report Date: 22-Mar-05

Client Project: CHMGP/62400674
Client Sample ID 107051
Collection Date: 3/15/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	3/21/2005	TDN
Acenaphthylene	NELAP	0.00750		ND	mg/L	5	3/21/2005	TDN
Anthracene	NELAP	0.00030		ND	mg/L	1	3/21/2005	TDN
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	3/21/2005	TDN
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	3/21/2005	TDN
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	3/21/2005	TDN
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	3/21/2005	TDN
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	3/21/2005	TDN
Chrysene	NELAP	0.00045		ND	mg/L	1	3/21/2005	TDN
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	3/21/2005	TDN
Fluoranthene	NELAP	0.00090		ND	mg/L	1	3/21/2005	TDN
Fluorene	NELAP	0.00030		ND	mg/L	1	3/21/2005	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	3/21/2005	TDN
Naphthalene	NELAP	0.0150		0.0532	mg/L	5	3/21/2005	TDN
Phenanthrene	NELAP	0.00060		ND	mg/L	1	3/21/2005	TDN
Pyrene	NELAP	0.00030		ND	mg/L	1	3/21/2005	TDN
Surr: Terphenyl-d14		56.3-117		71.5	%REC	1	3/21/2005	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	20.0		589	µg/L	10	3/20/2005 12:55:00 PM	GEK
Toluene	NELAP	5.0	J	4.0	µg/L	1	3/19/2005 1:21:00 PM	GEK
Ethylbenzene	NELAP	5.0		36.0	µg/L	1	3/19/2005 1:21:00 PM	GEK
Xylenes, Total	NELAP	5.0		64.1	µg/L	1	3/19/2005 1:21:00 PM	GEK
Naphthalene	NELAP	10		162	µg/L	1	3/19/2005 1:21:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		101	%REC	1	3/19/2005 1:21:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		98.2	%REC	1	3/19/2005 1:21:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		93.8	%REC	1	3/19/2005 1:21:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		101	%REC	1	3/19/2005 1:21:00 PM	GEK

Sample Narrative

SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC

LCSD Fluoranthene recovery was lower than the QC limits. The recovery in the LCS was within QC limits.

MSD Acenaphthylene did not recover due to matrix interference.

MS Acenaphthylene did not recover due to matrix interference.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05030451
Lab ID: 05030451-007
Report Date: 22-Mar-05

Client Project: CHMGP/62400674
Client Sample ID 114051
Collection Date: 3/15/2005 11:45:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.0300		**0.115**	mg/L	10	3/21/2005	TDN
Acenaphthylene	NELAP	0.0150		**ND**	mg/L	10	3/21/2005	TDN
Anthracene	NELAP	0.00030		**ND**	mg/L	1	3/18/2005	TDN
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	3/18/2005	TDN
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	3/18/2005	TDN
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	3/18/2005	TDN
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	3/18/2005	TDN
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	3/18/2005	TDN
Chrysene	NELAP	0.00045		**ND**	mg/L	1	3/18/2005	TDN
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	3/18/2005	TDN
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	3/18/2005	TDN
Fluorene	NELAP	0.00300		**0.0628**	mg/L	10	3/21/2005	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	3/18/2005	TDN
Naphthalene	NELAP	1.50		**5.58**	mg/L	500	3/21/2005	TDN
Phenanthrene	NELAP	0.00060		**0.0116**	mg/L	1	3/18/2005	TDN
Pyrene	NELAP	0.00030		**0.00040**	mg/L	1	3/18/2005	TDN
Surr: Terphenyl-d14		56.3-117		**91.9**	%REC	1	3/18/2005	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	50.0		**736**	µg/L	25	3/19/2005 5:28:00 PM	GEK
Toluene	NELAP	125		**164**	µg/L	25	3/19/2005 5:28:00 PM	GEK
Ethylbenzene	NELAP	125		**1250**	µg/L	25	3/19/2005 5:28:00 PM	GEK
Xylenes, Total	NELAP	125		**899**	µg/L	25	3/19/2005 5:28:00 PM	GEK
Naphthalene	NELAP	1000		**8780**	µg/L	100	3/20/2005 11:53:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**101**	%REC	25	3/19/2005 5:28:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**98.4**	%REC	25	3/19/2005 5:28:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**96.0**	%REC	25	3/19/2005 5:28:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**105**	%REC	25	3/19/2005 5:28:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05030451
Lab ID: 05030451-008
Report Date: 22-Mar-05

Client Project: CHMGP/62400674
Client Sample ID 114951
Collection Date: 3/15/2005 11:47:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.0300		**0.101**	mg/L	10	3/21/2005	TDN
Acenaphthylene	NELAP	0.0150		**ND**	mg/L	10	3/21/2005	TDN
Anthracene	NELAP	0.00030		**ND**	mg/L	1	3/18/2005	TDN
Benzo(a)anthracene	NELAP	0.00009		**0.00020**	mg/L	1	3/18/2005	TDN
Benzo(a)pyrene	NELAP	0.00012		**0.00014**	mg/L	1	3/18/2005	TDN
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	3/18/2005	TDN
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	3/18/2005	TDN
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	3/18/2005	TDN
Chrysene	NELAP	0.00045		**ND**	mg/L	1	3/18/2005	TDN
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	3/18/2005	TDN
Fluoranthene	NELAP	0.00090		**0.00094**	mg/L	1	3/18/2005	TDN
Fluorene	NELAP	0.00300		**0.0484**	mg/L	10	3/21/2005	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	3/18/2005	TDN
Naphthalene	NELAP	1.50		**4.55**	mg/L	500	3/21/2005	TDN
Phenanthrene	NELAP	0.00060		**0.0110**	mg/L	1	3/18/2005	TDN
Pyrene	NELAP	0.00030		**0.00066**	mg/L	1	3/18/2005	TDN
Surr: Terphenyl-d14		56.3-117		**98.6**	%REC	1	3/18/2005	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	50.0		**726**	µg/L	25	3/19/2005 5:59:00 PM	GEK
Toluene	NELAP	125		**163**	µg/L	25	3/19/2005 5:59:00 PM	GEK
Ethylbenzene	NELAP	125		**1240**	µg/L	25	3/19/2005 5:59:00 PM	GEK
Xylenes, Total	NELAP	125		**920**	µg/L	25	3/19/2005 5:59:00 PM	GEK
Naphthalene	NELAP	1000		**7570**	µg/L	100	3/20/2005 12:24:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**97.6**	%REC	25	3/19/2005 5:59:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**97.6**	%REC	25	3/19/2005 5:59:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**89.6**	%REC	25	3/19/2005 5:59:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**103**	%REC	25	3/19/2005 5:59:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05030451
Lab ID: 05030451-009
Report Date: 22-Mar-05

Client Project: CHMGP/62400674
Client Sample ID 115051
Collection Date: 3/15/2005 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**5.2**	µg/L	1	3/20/2005 8:08:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/20/2005 8:08:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/20/2005 8:08:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/20/2005 8:08:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/20/2005 8:08:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**102**	%REC	1	3/20/2005 8:08:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**96.8**	%REC	1	3/20/2005 8:08:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**96.4**	%REC	1	3/20/2005 8:08:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**106**	%REC	1	3/20/2005 8:08:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05030451
Lab ID: 05030451-010
Report Date: 22-Mar-05

Client Project: CHMGP/62400674
Client Sample ID Trip Blank
Collection Date: 2/23/2005 9:30:00 AM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0	H	**ND**	µg/L	1	3/19/2005 12:50:00 PM	GEK
Toluene	NELAP	5.0	H	**ND**	µg/L	1	3/19/2005 12:50:00 PM	GEK
Ethylbenzene	NELAP	5.0	H	**ND**	µg/L	1	3/19/2005 12:50:00 PM	GEK
Xylenes, Total	NELAP	5.0	H	**ND**	µg/L	1	3/19/2005 12:50:00 PM	GEK
Naphthalene	NELAP	10	H	**ND**	µg/L	1	3/19/2005 12:50:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135	H	**98.2**	%REC	1	3/19/2005 12:50:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3	H	**93.0**	%REC	1	3/19/2005 12:50:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2	H	**90.8**	%REC	1	3/19/2005 12:50:00 PM	GEK
Surr: Toluene-d8		84.1-114.5	H	**103**	%REC	1	3/19/2005 12:50:00 PM	GEK

Sample Narrative

SW-846 5030 Voa Prep Aqueous
PREP The prep HoldTime was exceeded by 10.1 days

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/62400674
Lab Order: 05030451
Date Received: 3/17/2005 9:05:00 AM

DATES REPORT

Date: *22-Mar-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05030451-001A	112051	3/15/2005	Groundwater	BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
05030451-002A	102051			BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
05030451-003A	111051			BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
05030451-004A	108051			BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
05030451-005A	116051			BTEX, Aqueous, by GC/MS		3/20/2005	3/20/2005
05030451-006A	107051			PNAs, Aqueous, by HPLC		3/21/2005	3/21/2005
				PNAs, Aqueous, by HPLC		3/21/2005	3/21/2005
05030451-006B				BTEX, Aqueous, by GC/MS		3/20/2005	3/20/2005
				BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
				BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
				BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
05030451-007A	114051			PNAs, Aqueous, by HPLC		3/18/2005	3/21/2005
				PNAs, Aqueous, by HPLC		3/18/2005	3/21/2005
				PNAs, Aqueous, by HPLC		3/18/2005	3/18/2005
05030451-007B				BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
				BTEX, Aqueous, by GC/MS		3/20/2005	3/20/2005
05030451-008A	114951			PNAs, Aqueous, by HPLC		3/18/2005	3/18/2005
				PNAs, Aqueous, by HPLC		3/18/2005	3/21/2005
				PNAs, Aqueous, by HPLC		3/18/2005	3/21/2005
05030451-008B				BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
				BTEX, Aqueous, by GC/MS		3/20/2005	3/20/2005
05030451-009A	115051			BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005
				BTEX, Aqueous, by GC/MS		3/20/2005	3/20/2005
05030451-010A	Trip Blank	2/23/2005	Trip Blank	BTEX, Aqueous, by GC/MS		3/19/2005	3/19/2005

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-24516** SampType: **MBLK** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/18/2005** Run ID: **HPLC INST. C_050318A**
Client ID: **ZZZZZ** Batch ID: **24516** TestNo: **SW8310** Analysis Date: **3/18/2005** SeqNo: **956981**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.001	0.00300									
Acenaphthylene	ND	0.0005	0.00150									
Anthracene	ND	0.0001	0.00030									
Benzo(a)anthracene	ND	0.00003	0.00009									
Benzo(a)pyrene	ND	0.00004	0.00012									
Benzo(b)fluoranthene	ND	0.00005	0.00015									
Benzo(g,h,i)perylene	ND	0.0001	0.00030									
Benzo(k)fluoranthene	ND	0.00005	0.00015									
Chrysene	ND	0.00015	0.00045									
Dibenzo(a,h)anthracene	ND	0.00006	0.00018									
Fluoranthene	ND	0.0003	0.00090									
Fluorene	ND	0.0001	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.0001	0.00030									
Naphthalene	ND	0.001	0.00300									
Phenanthrene	ND	0.0002	0.00060									
Pyrene	ND	0.0001	0.00030									
Surr: Terphenyl-d14	0.00838	0	0	0.01	0	83.8	58.3	113	0	0		

Sample ID: **MB-24531** SampType: **MBLK** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/21/2005** Run ID: **HPLC INST. C_050321A**
Client ID: **ZZZZZ** Batch ID: **24531** TestNo: **SW8310** Analysis Date: **3/21/2005** SeqNo: **958117**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.001	0.00300									
Acenaphthylene	ND	0.0005	0.00150									
Anthracene	ND	0.0001	0.00030									
Benzo(a)anthracene	ND	0.00003	0.00009									
Benzo(a)pyrene	ND	0.00004	0.00012									
Benzo(b)fluoranthene	ND	0.00005	0.00015									
Benzo(g,h,i)perylene	ND	0.0001	0.00030									
Benzo(k)fluoranthene	ND	0.00005	0.00015									

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-24531**	SampType: **MBLK**	TestCode: **SV_8310S_W**	Units: **mg/L**	Prep Date: **3/21/2005**	Run ID: **HPLC INST. C_050321A**
Client ID: **ZZZZZ**	Batch ID: **24531**	TestNo: **SW8310**		Analysis Date: **3/21/2005**	SeqNo: **958117**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	ND	0.00015	0.00045									
Dibenzo(a,h)anthracene	ND	0.00006	0.00018									
Fluoranthene	ND	0.0003	0.00090									
Fluorene	ND	0.0001	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.0001	0.00030									
Naphthalene	ND	0.001	0.00300									
Phenanthrene	ND	0.0002	0.00060									
Pyrene	ND	0.0001	0.00030									
Surr: Terphenyl-d14	0.00729	0	0	0.01	0	72.9	58.3	113	0	0		

Sample ID: **LCS-24516**	SampType: **LCS**	TestCode: **SV_8310S_W**	Units: **mg/L**	Prep Date: **3/18/2005**	Run ID: **HPLC INST. C_050318A**
Client ID: **ZZZZZ**	Batch ID: **24516**	TestNo: **SW8310**		Analysis Date: **3/18/2005**	SeqNo: **956982**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00735	0.001	0.00300	0.01	0	73.5	49.8	93.3	0	0		
Acenaphthylene	0.0068	0.0005	0.00150	0.01	0	68	43.3	94.4	0	0		
Anthracene	0.00801	0.0001	0.00030	0.01	0	80.1	62.5	103	0	0		
Benzo(a)anthracene	0.00759	0.00003	0.00009	0.01	0	75.9	63.9	98.4	0	0		
Benzo(a)pyrene	0.00728	0.00004	0.00012	0.01	0	72.8	53.8	109	0	0		
Benzo(b)fluoranthene	0.00722	0.00005	0.00015	0.01	0	72.2	64.5	96.9	0	0		
Benzo(g,h,i)perylene	0.00778	0.0001	0.00030	0.01	0	77.8	63.3	107	0	0		
Benzo(k)fluoranthene	0.00741	0.00005	0.00015	0.01	0	74.1	64.1	104	0	0		
Chrysene	0.00754	0.00015	0.00045	0.01	0	75.4	62.2	97.7	0	0		
Dibenzo(a,h)anthracene	0.0075	0.00006	0.00018	0.01	0	75	63.9	100	0	0		
Fluoranthene	0.00745	0.0003	0.00090	0.01	0	74.5	63	98.6	0	0		
Fluorene	0.0071	0.0001	0.00030	0.01	0	71	46.6	92.4	0	0		
Indeno(1,2,3-cd)pyrene	0.00767	0.0001	0.00030	0.01	0	76.7	63.5	104	0	0		
Naphthalene	0.00607	0.001	0.00300	0.01	0	60.7	44.6	90.6	0	0		
Phenanthrene	0.00755	0.0002	0.00060	0.01	0	75.5	56.9	98.6	0	0		
Pyrene	0.00729	0.0001	0.00030	0.01	0	72.9	57.6	88	0	0		
Surr: Terphenyl-d14	0.00823	0	0	0.01	0	82.3	58.3	113	0	0		

Qual: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NOTE: LIMS MDL and PQL are adjusted for dilutions

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCS-24531** SampType: **LCS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/21/2005** Run ID: **HPLC INST. C_050321A**
Client ID: **ZZZZZ** Batch ID: **24531** TestNo: **SW8310** Analysis Date: **3/21/2005** SeqNo: **958118**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00545	0.001	0.00300	0.01	0	54.5	49.8	93.3	0	0		
Acenaphthylene	0.00568	0.0005	0.00150	0.01	0	56.8	43.3	94.4	0	0		
Anthracene	0.00678	0.0001	0.00030	0.01	0	67.8	62.5	103	0	0		
Benzo(a)anthracene	0.00674	0.00003	0.00009	0.01	0	67.4	63.9	98.4	0	0		
Benzo(a)pyrene	0.007	0.00004	0.00012	0.01	0	70	53.8	109	0	0		
Benzo(b)fluoranthene	0.00674	0.00005	0.00015	0.01	0	67.4	64.5	96.9	0	0		
Benzo(g,h,i)perylene	0.00723	0.0001	0.00030	0.01	0	72.3	63.3	107	0	0		
Benzo(k)fluoranthene	0.00706	0.00005	0.00015	0.01	0	70.6	64.1	104	0	0		
Chrysene	0.0067	0.00015	0.00045	0.01	0	67	62.2	97.7	0	0		
Dibenzo(a,h)anthracene	0.00705	0.00006	0.00018	0.01	0	70.5	63.9	100	0	0		
Fluoranthene	0.00653	0.0003	0.00090	0.01	0	65.3	63	98.6	0	0		
Fluorene	0.00589	0.0001	0.00030	0.01	0	58.9	46.6	92.4	0	0		
Indeno(1,2,3-cd)pyrene	0.00767	0.0001	0.00030	0.01	0	76.7	63.5	104	0	0		
Naphthalene	0.00558	0.001	0.00300	0.01	0	55.8	44.6	90.6	0	0		
Phenanthrene	0.00639	0.0002	0.00060	0.01	0	63.9	56.9	98.6	0	0		
Pyrene	0.00644	0.0001	0.00030	0.01	0	64.4	57.6	88	0	0		
Surr: Terphenyl-d14	0.00754	0	0	0.01	0	75.4	58.3	113	0	0		

Sample ID: **LCSDUP-24516** SampType: **LCSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/18/2005** Run ID: **HPLC INST. C_050318A**
Client ID: **ZZZZZ** Batch ID: **24516** TestNo: **SW8310** Analysis Date: **3/18/2005** SeqNo: **956983**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00708	0.001	0.00300	0.01	0	70.8	49.8	93.3	0.00735	3.74	26.2	
Acenaphthylene	0.00672	0.0005	0.00150	0.01	0	67.2	43.3	94.4	0.0068	1.18	25.7	
Anthracene	0.00805	0.0001	0.00030	0.01	0	80.5	62.5	103	0.00801	0.498	18.2	
Benzo(a)anthracene	0.00789	0.00003	0.00009	0.01	0	78.9	63.9	98.4	0.00759	3.88	15	
Benzo(a)pyrene	0.00842	0.00004	0.00012	0.01	0	84.2	53.8	109	0.00728	14.5	15.1	
Benzo(b)fluoranthene	0.00762	0.00005	0.00015	0.01	0	76.2	64.5	96.9	0.00722	5.39	15.8	
Benzo(g,h,i)perylene	0.00807	0.0001	0.00030	0.01	0	80.7	63.3	107	0.00778	3.66	16.4	
Benzo(k)fluoranthene	0.0077	0.00005	0.00015	0.01	0	77	64.1	104	0.00741	3.84	15.2	
Chrysene	0.0078	0.00015	0.00045	0.01	0	78	62.2	97.7	0.00754	3.39	15.9	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCSDUP-24516** SampType: **LCSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/18/2005** Run ID: **HPLC INST. C_050318A**
Client ID: **ZZZZZ** Batch ID: **24516** TestNo: **SW8310** Analysis Date: **3/18/2005** SeqNo: **956983**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenzo(a,h)anthracene	0.00779	0.00006	0.00018	0.01	0	77.9	63.9	100	0.0075	3.79	16.3	
Fluoranthene	0.00763	0.0003	0.00090	0.01	0	76.3	63	98.6	0.00745	2.39	16.8	
Fluorene	0.00707	0.0001	0.00030	0.01	0	70.7	46.6	92.4	0.0071	0.423	27.5	
Indeno(1,2,3-cd)pyrene	0.00793	0.0001	0.00030	0.01	0	79.3	63.5	104	0.00767	3.33	15.8	
Naphthalene	0.00625	0.001	0.00300	0.01	0	62.5	44.6	90.6	0.00607	2.92	25	
Phenanthrene	0.0076	0.0002	0.00060	0.01	0	76	56.9	98.6	0.00755	0.660	23.2	
Pyrene	0.00756	0.0001	0.00030	0.01	0	75.6	57.6	88	0.00729	3.64	16.7	
Surr: Terphenyl-d14	0.0083	0	0	0.01	0	83	58.3	113	0	0	20	

Sample ID: **LCSDUP-24531** SampType: **LCSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/21/2005** Run ID: **HPLC INST. C_050321A**
Client ID: **ZZZZZ** Batch ID: **24531** TestNo: **SW8310** Analysis Date: **3/21/2005** SeqNo: **958119**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00597	0.001	0.00300	0.01	0	59.7	49.8	93.3	0.00545	9.10	26.2	
Acenaphthylene	0.00551	0.0005	0.00150	0.01	0	55.1	43.3	94.4	0.00568	3.04	25.7	
Anthracene	0.00647	0.0001	0.00030	0.01	0	64.7	62.5	103	0.00678	4.68	18.2	
Benzo(a)anthracene	0.0064	0.00003	0.00009	0.01	0	64	63.9	98.4	0.00674	5.18	15	
Benzo(a)pyrene	0.00652	0.00004	0.00012	0.01	0	65.2	53.8	109	0.007	7.10	15.1	
Benzo(b)fluoranthene	0.00664	0.00005	0.00015	0.01	0	66.4	64.5	96.9	0.00674	1.50	15.8	
Benzo(g,h,i)perylene	0.00707	0.0001	0.00030	0.01	0	70.7	63.3	107	0.00723	2.24	16.4	
Benzo(k)fluoranthene	0.00659	0.00005	0.00015	0.01	0	65.9	64.1	104	0.00706	6.88	15.2	
Chrysene	0.00635	0.00015	0.00045	0.01	0	63.5	62.2	97.7	0.0067	5.36	15.9	
Dibenzo(a,h)anthracene	0.00657	0.00006	0.00018	0.01	0	65.7	63.9	100	0.00705	7.05	16.3	
Fluoranthene	0.00621	0.0003	0.00090	0.01	0	62.1	63	98.6	0.00653	5.02	16.8	S
Fluorene	0.00556	0.0001	0.00030	0.01	0	55.6	46.6	92.4	0.00589	5.76	27.5	
Indeno(1,2,3-cd)pyrene	0.00732	0.0001	0.00030	0.01	0	73.2	63.5	104	0.00767	4.67	15.8	
Naphthalene	0.00572	0.001	0.00300	0.01	0	57.2	44.6	90.6	0.00558	2.48	25	
Phenanthrene	0.00611	0.0002	0.00060	0.01	0	61.1	56.9	98.6	0.00639	4.48	23.2	
Pyrene	0.00613	0.0001	0.00030	0.01	0	61.3	57.6	88	0.00644	4.93	16.7	
Surr: Terphenyl-d14	0.00691	0	0	0.01	0	69.1	58.3	113	0	0	20	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **05030451-006AMS** SampType: **MS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/21/2005** Run ID: **HPLC INST. C_050321A**
Client ID: **107051** Batch ID: **24531** TestNo: **SW8310** Analysis Date: **3/21/2005** SeqNo: **958121**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00736	0.001	0.00300	0.0111	0	66.3	34.3	103	0	0		
Anthracene	0.00903	0.0001	0.00030	0.0111	0	81.4	62.5	106	0	0		
Benzo(a)anthracene	0.00873	0.00003	0.00009	0.0111	0	78.6	63.9	102	0	0		
Benzo(a)pyrene	0.00974	0.00004	0.00012	0.0111	0	87.7	53.8	109	0	0		
Benzo(b)fluoranthene	0.00848	0.00005	0.00015	0.0111	0	76.4	64.5	97.7	0	0		
Benzo(g,h,i)perylene	0.00975	0.0001	0.00030	0.0111	0	87.8	61.5	107	0	0		
Benzo(k)fluoranthene	0.00856	0.00005	0.00015	0.0111	0	77.1	64.1	105	0	0		
Chrysene	0.00861	0.00015	0.00045	0.0111	0	77.6	62.2	99.2	0	0		
Dibenzo(a,h)anthracene	0.00855	0.00006	0.00018	0.0111	0	77	63.9	100	0	0		
Fluoranthene	0.0085	0.0003	0.00090	0.0111	0	76.6	54.2	105	0	0		
Fluorene	0.00797	0.0001	0.00030	0.0111	0	71.8	30.2	97.9	0	0		
Indeno(1,2,3-cd)pyrene	0.00974	0.0001	0.00030	0.0111	0	87.7	63.5	104	0	0		
Phenanthrene	0.00852	0.0002	0.00060	0.0111	0	76.8	54.9	106	0	0		
Pyrene	0.00821	0.0001	0.00030	0.0111	0	74	57.6	93.2	0	0		
Surr: Terphenyl-d14	0.00931	0	0	0.0111	0	83.9	56.3	117	0	0		

Sample ID: **05030451-006AMS** SampType: **MS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/21/2005** Run ID: **HPLC INST. C_050321A**
Client ID: **107051** Batch ID: **24531** TestNo: **SW8310** Analysis Date: **3/21/2005** SeqNo: **958125**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	ND	0.0025	0.00750	0.0111	0	0	36.9	109	0	0		S
Naphthalene	0.0647	0.005	0.0150	0.0111	0.0532	103.6	19.7	112	0	0		

Sample ID: **05030451-006AMSD** SampType: **MSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/21/2005** Run ID: **HPLC INST. C_050321A**
Client ID: **107051** Batch ID: **24531** TestNo: **SW8310** Analysis Date: **3/21/2005** SeqNo: **958122**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00703	0.001	0.00300	0.0111	0	63.3	34.3	103	0.00736	4.59	40	
Anthracene	0.00882	0.0001	0.00030	0.0111	0	79.5	62.5	106	0.00903	2.35	40	
Benzo(a)anthracene	0.00852	0.00003	0.00009	0.0111	0	76.8	63.9	102	0.00873	2.43	40	
Benzo(a)pyrene	0.00967	0.00004	0.00012	0.0111	0	87.1	53.8	109	0.00974	0.721	40	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **05030451-006AMSD** SampType: **MSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/21/2005** Run ID: **HPLC INST. C_050321A**
Client ID: **107051** Batch ID: **24531** TestNo: **SW8310** Analysis Date: **3/21/2005** SeqNo: **958122**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	0.00831	0.00005	0.00015	0.0111	0	74.9	64.5	97.7	0.00848	2.03	40	
Benzo(g,h,i)perylene	0.00939	0.0001	0.00030	0.0111	0	84.6	61.5	107	0.00975	3.76	40	
Benzo(k)fluoranthene	0.00839	0.00005	0.00015	0.0111	0	75.6	64.1	105	0.00856	2.01	40	
Chrysene	0.00858	0.00015	0.00045	0.0111	0	77.3	62.2	99.2	0.00861	0.349	40	
Dibenzo(a,h)anthracene	0.00846	0.00006	0.00018	0.0111	0	76.2	63.9	100	0.00855	1.06	40	
Fluoranthene	0.00835	0.0003	0.00090	0.0111	0	75.2	54.2	105	0.0085	1.78	40	
Fluorene	0.00783	0.0001	0.00030	0.0111	0	70.5	30.2	97.9	0.00797	1.77	40	
Indeno(1,2,3-cd)pyrene	0.00965	0.0001	0.00030	0.0111	0	86.9	63.5	104	0.00974	0.928	40	
Phenanthrene	0.00842	0.0002	0.00060	0.0111	0	75.9	54.9	106	0.00852	1.18	40	
Pyrene	0.00801	0.0001	0.00030	0.0111	0	72.2	57.6	93.2	0.00821	2.47	40	
Surr: Terphenyl-d14	0.00952	0	0	0.0111	0	85.8	56.3	117	0	0	40	

Sample ID: **05030451-006AMSD** SampType: **MSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **3/21/2005** Run ID: **HPLC INST. C_050321A**
Client ID: **107051** Batch ID: **24531** TestNo: **SW8310** Analysis Date: **3/21/2005** SeqNo: **958126**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	ND	0.0025	0.00750	0.0111	0	0	36.9	109	0	0	40	S
Naphthalene	0.0642	0.005	0.0150	0.0111	0.0532	99.1	19.7	112	0.0647	0.776	40	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-A050319-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/19/2005** Run ID: **5971 INST. A_050319A**
Client ID: **ZZZZZ** Batch ID: **24551** TestNo: **SW8260B** Analysis Date: **3/19/2005** SeqNo: **957364**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.3	0.5	2.0	50	0	96.6	77.4	120	0	0		
Toluene	50.8	1	5.0	50	0	101.6	81.6	118	0	0		
Ethylbenzene	54.9	1	5.0	50	0	109.8	78.5	122	0	0		
Naphthalene	58	2	10	50	0	116	70	130	0	0		
Xylenes, Total	114	1	5.0	100	0	114	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	47.4	0	0	50	0	94.8	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	48.5	0	0	50	0	97	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47.3	0	0	50	0	94.6	88.9	121.2	0	0		
Surr: Toluene-d8	48.2	0	0	50	0	96.4	84.1	114.5	0	0		

Sample ID: **LCS-A050320-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/20/2005** Run ID: **5971 INST. A_050320A**
Client ID: **ZZZZZ** Batch ID: **24555** TestNo: **SW8260B** Analysis Date: **3/20/2005** SeqNo: **957780**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48	0.5	2.0	50	0	96	77.4	120	0	0		
Toluene	53.6	1	5.0	50	0	107.2	81.6	118	0	0		
Ethylbenzene	56.5	1	5.0	50	0	113	78.5	122	0	0		
Naphthalene	59.1	2	10	50	0	118.2	70	130	0	0		
Xylenes, Total	115	1	5.0	100	0	115	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	48	0	0	50	0	96	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	48.2	0	0	50	0	96.4	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47	0	0	50	0	94	88.9	121.2	0	0		
Surr: Toluene-d8	50.2	0	0	50	0	100.4	84.1	114.5	0	0		

Sample ID: **MBLK-A050319-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/19/2005** Run ID: **5971 INST. A_050319A**
Client ID: **ZZZZZ** Batch ID: **24551** TestNo: **SW8260B** Analysis Date: **3/19/2005** SeqNo: **957365**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5	2.0									
Toluene	ND	1	5.0									
Ethylbenzene	ND	1	5.0									

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **MBLK-A050319-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/19/2005** Run ID: **5971 INST. A_050319A**
Client ID: **ZZZZZ** Batch ID: **24551** TestNo: **SW8260B** Analysis Date: **3/19/2005** SeqNo: **957365**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	2	10									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	48.5	0	0	50	0	97	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	46.2	0	0	50	0	92.4	81.1	113.3	0	0		
Surr: Dibromofluoromethane	45.3	0	0	50	0	90.6	88.9	121.2	0	0		
Surr: Toluene-d8	52.1	0	0	50	0	104.2	84.1	114.5	0	0		

Sample ID: **MBLK-A050320-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/20/2005** Run ID: **5971 INST. A_050320A**
Client ID: **ZZZZZ** Batch ID: **24555** TestNo: **SW8260B** Analysis Date: **3/20/2005** SeqNo: **957781**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5	2.0									
Toluene	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Naphthalene	ND	2	10									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	50	0	0	50	0	100	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	45.5	0	0	50	0	91	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47.5	0	0	50	0	95	88.9	121.2	0	0		
Surr: Toluene-d8	50.7	0	0	50	0	101.4	84.1	114.5	0	0		

Sample ID: **05030451-006BMS** SampType: **MS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/19/2005** Run ID: **5971 INST. A_050319A**
Client ID: **107051** Batch ID: **24551** TestNo: **SW8260B** Analysis Date: **3/19/2005** SeqNo: **957368**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	796	0.5	2.0	56	731	116.1	70.8	122	0	0		E
Toluene	63.5	1	5.0	56	4	106.2	77.2	117	0	0		
Ethylbenzene	97.3	1	5.0	56	36	109.5	81	113	0	0		
Xylenes, Total	193	1	5.0	112	64.1	115.1	80.3	116	0	0		
Surr: 1,2-Dichloroethane-d4	49.2	0	0	50	0	98.4	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50	0	0	50	0	100	81.1	113.3	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05030451
Project: CHMGP/62400674

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: 05030451-006BMS	SampType: MS	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 3/19/2005	Run ID: 5971 INST. A_050319A
Client ID: 107051	Batch ID: 24551	TestNo: SW8260B		Analysis Date: 3/19/2005	SeqNo: 957368

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	45.3	0	0	50	0	90.6	88.9	121.2	0	0		
Surr: Toluene-d8	50.9	0	0	50	0	101.8	84.1	114.5	0	0		

Sample ID: 05030451-006BMSD	SampType: MSD	TestCode: V_BTEX_W	Units: µg/L	Prep Date: 3/19/2005	Run ID: 5971 INST. A_050319A
Client ID: 107051	Batch ID: 24551	TestNo: SW8260B		Analysis Date: 3/19/2005	SeqNo: 957369

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	786	0.5	2.0	56	731	98.2	70.8	122	796	1.26	15	E
Toluene	60	1	5.0	56	4	100	77.2	117	63.5	5.67	15	
Ethylbenzene	92	1	5.0	56	36	100	81	113	97.3	5.60	15	
Xylenes, Total	188	1	5.0	112	64.1	110.6	80.3	116	193	2.63	15	
Surr: 1,2-Dichloroethane-d4	48.6	0	0	50	0	97.2	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	49.8	0	0	50	0	99.6	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	45	0	0	50	0	90	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.1	0	0	50	0	100.2	84.1	114.5	0	0	0	

Qual: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NOTE: LIMS MDL and PQL are adjusted for dilutions

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

WORK ORDER SAMPLE SUMMARY

Client: Kelron Environmental
Project: CHMGP/62400674
Lab Order: 05030451
Date Received: 3/17/2005

Date: *22-Mar-05*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
05030451-001A	112051		3/15/2005 8:00:00 AM
05030451-002A	102051		3/15/2005 8:40:00 AM
05030451-003A	111051		3/15/2005 9:25:00 AM
05030451-004A	108051		3/15/2005 9:55:00 AM
05030451-005A	116051		3/15/2005 10:32:00 AM
05030451-006A	107051		3/15/2005 11:00:00 AM
05030451-006B	107051		3/15/2005 11:00:00 AM
05030451-007A	114051		3/15/2005 11:45:00 AM
05030451-007B	114051		3/15/2005 11:45:00 AM
05030451-008A	114951		3/15/2005 11:47:00 AM
05030451-008B	114951		3/15/2005 11:47:00 AM
05030451-009A	115051		3/15/2005 12:48:00 PM
05030451-010A	Trip Blank		2/23/2005 9:30:00 AM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

June 16, 2005

Stu Cravens
Kelron Environmental
1213 Dorchester
Champaign, IL 61821
TEL: (217) 390-1503
FAX: (217) 355-1385

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: CHMGP/162363

OrderNo. 05060318

Dear Stu Cravens:

TEKLAB, INC received 10 samples on 6/10/2005 7:40:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 05060318
Report Date: June 16, 2005

REPORT CONTENTS

This reporting package includes the following:

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 05060318
Report Date: June 16, 2005

CASE NARRATIVE

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05060318	**Client Sample ID**	112052
Lab ID:	05060318-001	**Collection Date:**	6/9/2005 7:48:00 AM
Report Date:	16-Jun-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/12/2005 7:13:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 7:13:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 7:13:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/12/2005 7:13:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/12/2005 7:13:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**99.4**	%REC	1	6/12/2005 7:13:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**99.4**	%REC	1	6/12/2005 7:13:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**98.0**	%REC	1	6/12/2005 7:13:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**97.2**	%REC	1	6/12/2005 7:13:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05060318	**Client Sample ID**	102052
Lab ID:	05060318-002	**Collection Date:**	6/9/2005 8:21:00 AM
Report Date:	16-Jun-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/12/2005 7:48:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 7:48:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 7:48:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/12/2005 7:48:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/12/2005 7:48:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**96.6**	%REC	1	6/12/2005 7:48:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**99.4**	%REC	1	6/12/2005 7:48:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**98.4**	%REC	1	6/12/2005 7:48:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**97.0**	%REC	1	6/12/2005 7:48:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05060318	**Client Sample ID**	111052
Lab ID:	05060318-003	**Collection Date:**	6/9/2005 9:02:00 AM
Report Date:	16-Jun-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/12/2005 8:23:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 8:23:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 8:23:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/12/2005 8:23:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/12/2005 8:23:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**93.8**	%REC	1	6/12/2005 8:23:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**97.2**	%REC	1	6/12/2005 8:23:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**98.0**	%REC	1	6/12/2005 8:23:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**95.0**	%REC	1	6/12/2005 8:23:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05060318	**Client Sample ID**	108052
Lab ID:	05060318-004	**Collection Date:**	6/9/2005 9:42:00 AM
Report Date:	16-Jun-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/12/2005 8:58:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 8:58:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 8:58:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/12/2005 8:58:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/12/2005 8:58:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**94.8**	%REC	1	6/12/2005 8:58:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**96.6**	%REC	1	6/12/2005 8:58:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**98.2**	%REC	1	6/12/2005 8:58:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**95.2**	%REC	1	6/12/2005 8:58:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05060318
Lab ID: 05060318-005
Report Date: 16-Jun-05

Client Project: CHMGP/162363
Client Sample ID 116052
Collection Date: 6/9/2005 10:10:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	6/12/2005 9:34:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	6/12/2005 9:34:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	6/12/2005 9:34:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	6/12/2005 9:34:00 PM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	6/12/2005 9:34:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		95.4	%REC	1	6/12/2005 9:34:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		96.0	%REC	1	6/12/2005 9:34:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		99.6	%REC	1	6/12/2005 9:34:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		94.6	%REC	1	6/12/2005 9:34:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05060318
Lab ID: 05060318-006
Report Date: 16-Jun-05

Client Project: CHMGP/162363
Client Sample ID 107052
Collection Date: 6/9/2005 10:34:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Acenaphthylene	NELAP	0.00750		0.0445	mg/L	5	6/14/2005 3:01:19 PM	HE
Anthracene	NELAP	0.00030		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Chrysene	NELAP	0.00045		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Fluoranthene	NELAP	0.00090		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Fluorene	NELAP	0.00030		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00150		ND	mg/L	5	6/14/2005 3:01:19 PM	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Naphthalene	NELAP	0.0150		0.0594	mg/L	5	6/14/2005 3:01:19 PM	HE
Phenanthrene	NELAP	0.00060		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Pyrene	NELAP	0.00030		ND	mg/L	1	6/14/2005 12:47:30 PM	HE
Surr: Terphenyl-d14		53.1-120		87.2	%REC	1	6/14/2005 12:47:30 PM	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	10		549	µg/L	5	6/12/2005 11:19:00 PM	GEK
Toluene	NELAP	25.0		ND	µg/L	5	6/12/2005 11:19:00 PM	GEK
Ethylbenzene	NELAP	25.0		27.8	µg/L	5	6/12/2005 11:19:00 PM	GEK
Xylenes, Total	NELAP	25.0		49.2	µg/L	5	6/12/2005 11:19:00 PM	GEK
Naphthalene	NELAP	50.0		99.4	µg/L	5	6/12/2005 11:19:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		96.8	%REC	5	6/12/2005 11:19:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		97.2	%REC	5	6/12/2005 11:19:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		100	%REC	5	6/12/2005 11:19:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		96.8	%REC	5	6/12/2005 11:19:00 PM	GEK

Sample Narrative

SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS

SAMP Elevated reporting limit due to high levels of target and/or non-target analytes.

MSD RPD was outside of QC limit.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05060318
Lab ID: 05060318-007
Report Date: 16-Jun-05

Client Project: CHMGP/162363
Client Sample ID 114052
Collection Date: 6/9/2005 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.0150		**0.222**	mg/L	5	6/14/2005 3:53:34 PM	HE
Acenaphthylene	NELAP	0.00750		**ND**	mg/L	5	6/14/2005 3:53:34 PM	HE
Anthracene	NELAP	0.00030		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Chrysene	NELAP	0.00045		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Fluoranthene	NELAP	0.00090		**0.00107**	mg/L	1	6/14/2005 1:39:45 PM	HE
Fluorene	NELAP	0.00150		**0.0641**	mg/L	5	6/14/2005 3:53:34 PM	HE
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	6/14/2005 1:39:45 PM	HE
Naphthalene	NELAP	0.600		**5.12**	mg/L	200	6/16/2005 10:09:19 AM	HE
Phenanthrene	NELAP	0.00060		**0.0102**	mg/L	1	6/14/2005 1:39:45 PM	HE
Pyrene	NELAP	0.00030		**0.00065**	mg/L	1	6/14/2005 1:39:45 PM	HE
Surr: Terphenyl-d14		53.1-120		**82.6**	%REC	1	6/14/2005 1:39:45 PM	HE
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	100		**867**	µg/L	50	6/13/2005 1:04:00 AM	GEK
Toluene	NELAP	100		**152**	µg/L	50	6/13/2005 1:04:00 AM	GEK
Ethylbenzene	NELAP	250		**1260**	µg/L	50	6/13/2005 1:04:00 AM	GEK
Xylenes, Total	NELAP	250		**932**	µg/L	50	6/13/2005 1:04:00 AM	GEK
Naphthalene	NELAP	500		**5920**	µg/L	50	6/13/2005 1:04:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**94.8**	%REC	50	6/13/2005 1:04:00 AM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**98.0**	%REC	50	6/13/2005 1:04:00 AM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**100**	%REC	50	6/13/2005 1:04:00 AM	GEK
Surr: Toluene-d8		84.1-114.5		**96.4**	%REC	50	6/13/2005 1:04:00 AM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05060318	**Client Sample ID**	115052
Lab ID:	05060318-008	**Collection Date:**	6/9/2005 12:01:00 PM
Report Date:	16-Jun-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**8.3**	µg/L	1	6/12/2005 10:08:00 PM	GEK
Toluene	NELAP	5.0	J	**1.1**	µg/L	1	6/12/2005 10:08:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 10:08:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/12/2005 10:08:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/12/2005 10:08:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**97.6**	%REC	1	6/12/2005 10:08:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**99.0**	%REC	1	6/12/2005 10:08:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**99.8**	%REC	1	6/12/2005 10:08:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**97.2**	%REC	1	6/12/2005 10:08:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05060318	**Client Sample ID**	115952
Lab ID:	05060318-009	**Collection Date:**	6/9/2005 12:02:00 PM
Report Date:	16-Jun-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**8.7**	µg/L	1	6/12/2005 10:44:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 10:44:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/12/2005 10:44:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/12/2005 10:44:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/12/2005 10:44:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**94.6**	%REC	1	6/12/2005 10:44:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**97.0**	%REC	1	6/12/2005 10:44:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**101**	%REC	1	6/12/2005 10:44:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**96.4**	%REC	1	6/12/2005 10:44:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05060318	**Client Sample ID**	Trip Blank
Lab ID:	05060318-010	**Collection Date:**	6/3/2005 9:05:00 AM
Report Date:	16-Jun-05	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	6/12/2005 5:28:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	6/12/2005 5:28:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	6/12/2005 5:28:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	6/12/2005 5:28:00 PM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	6/12/2005 5:28:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		96.6	%REC	1	6/12/2005 5:28:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		99.8	%REC	1	6/12/2005 5:28:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		98.0	%REC	1	6/12/2005 5:28:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		96.6	%REC	1	6/12/2005 5:28:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
Lab Order: 05060318
Date Received: 6/10/2005 7:40:00 AM

DATES REPORT

Date: *16-Jun-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05060318-001A	112052	6/9/2005	Groundwater	BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005
05060318-002A	102052			BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005
05060318-003A	111052			BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005
05060318-004A	108052			BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005
05060318-005A	116052			BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005
05060318-006A	107052			PNAs, Aqueous, by HPLC		6/14/2005	6/14/2005
				PNAs, Aqueous, by HPLC		6/14/2005	6/14/2005
				PNAs, Aqueous, by HPLC		6/14/2005	6/14/2005
05060318-006B				BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005
05060318-007A	114052			PNAs, Aqueous, by HPLC		6/14/2005	6/14/2005
				PNAs, Aqueous, by HPLC		6/14/2005	6/14/2005
				PNAs, Aqueous, by HPLC		6/14/2005	6/16/2005
				PNAs, Aqueous, by HPLC		6/14/2005	6/14/2005
05060318-007B				BTEX, Aqueous, by GC/MS		6/12/2005	6/13/2005
05060318-008A	115052			BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005
05060318-009A	115952			BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005
05060318-010A	Trip Blank	6/3/2005	Trip Blank	BTEX, Aqueous, by GC/MS		6/12/2005	6/12/2005

CLIENT: Kelron Environmental
Work Order: 05060318
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-25734**	SampType: **MBLK**	TestCode: **SV_8310S_W**	Units: **mg/L**	Prep Date: **6/14/2005**	Run ID: **HPLC INST. C_050614A**
Client ID: **ZZZZZ**	Batch ID: **25734**	TestNo: **SW8310**		Analysis Date: **6/14/2005**	SeqNo: **1020673**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.001	0.00300									
Acenaphthylene	ND	0.0005	0.00150									
Anthracene	ND	0.0001	0.00030									
Benzo(a)anthracene	ND	0.00003	0.00009									
Benzo(a)pyrene	ND	0.00004	0.00012									
Benzo(b)fluoranthene	ND	0.00005	0.00015									
Benzo(g,h,i)perylene	ND	0.0001	0.00030									
Benzo(k)fluoranthene	ND	0.00005	0.00015									
Chrysene	ND	0.00015	0.00045									
Dibenzo(a,h)anthracene	ND	0.00006	0.00018									
Fluoranthene	ND	0.0003	0.00090									
Fluorene	ND	0.0001	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.0001	0.00030									
Naphthalene	ND	0.001	0.00300									
Phenanthrene	ND	0.0002	0.00060									
Pyrene	ND	0.0001	0.00030									
Surr: Terphenyl-d14	0.00849	0	0	0.01	0	84.9	59.9	111	0	0		

Sample ID: **LCS-25734**	SampType: **LCS**	TestCode: **SV_8310S_W**	Units: **mg/L**	Prep Date: **6/14/2005**	Run ID: **HPLC INST. C_050614A**
Client ID: **ZZZZZ**	Batch ID: **25734**	TestNo: **SW8310**		Analysis Date: **6/14/2005**	SeqNo: **1020674**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00876	0.001	0.00300	0.01	0	87.6	52.4	95	0	0		
Acenaphthylene	0.00853	0.0005	0.00150	0.01	0	85.3	44.3	97.4	0	0		
Anthracene	0.00911	0.0001	0.00030	0.01	0	91.1	59.1	108	0	0		
Benzo(a)anthracene	0.00936	0.00003	0.00009	0.01	0	93.6	61.7	109	0	0		
Benzo(a)pyrene	0.00939	0.00004	0.00012	0.01	0	93.9	53.7	119	0	0		
Benzo(b)fluoranthene	0.00932	0.00005	0.00015	0.01	0	93.2	60.3	107	0	0		
Benzo(g,h,i)perylene	0.00954	0.0001	0.00030	0.01	0	95.4	59.4	115	0	0		
Benzo(k)fluoranthene	0.00942	0.00005	0.00015	0.01	0	94.2	62.6	109	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05060318
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: LCS-25734	SampType: LCS	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 6/14/2005	Run ID: HPLC INST. C_050614A
Client ID: ZZZZZ	Batch ID: 25734	TestNo: SW8310		Analysis Date: 6/14/2005	SeqNo: 1020674

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	0.00956	0.00015	0.00045	0.01	0	95.6	60.3	110	0	0		
Dibenzo(a,h)anthracene	0.00926	0.00006	0.00018	0.01	0	92.6	61	108	0	0		
Fluoranthene	0.00937	0.0003	0.00090	0.01	0	93.7	59.3	108	0	0		
Fluorene	0.0089	0.0001	0.00030	0.01	0	89	44.8	103	0	0		
Indeno(1,2,3-cd)pyrene	0.00924	0.0001	0.00030	0.01	0	92.4	61	112	0	0		
Naphthalene	0.00753	0.001	0.00300	0.01	0	75.3	45.6	91.9	0	0		
Phenanthrene	0.00916	0.0002	0.00060	0.01	0	91.6	55.8	110	0	0		
Pyrene	0.00982	0.0001	0.00030	0.01	0	98.2	50.7	109	0	0		
Surr: Terphenyl-d14	0.00929	0	0	0.01	0	92.9	59.9	111	0	0		

Sample ID: LCSDUP-25734	SampType: LCSD	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 6/14/2005	Run ID: HPLC INST. C_050614A
Client ID: ZZZZZ	Batch ID: 25734	TestNo: SW8310		Analysis Date: 6/14/2005	SeqNo: 1020675

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00869	0.001	0.00300	0.01	0	86.9	52.4	95	0.00876	0.803	26.2	
Acenaphthylene	0.00853	0.0005	0.00150	0.01	0	85.3	44.3	97.4	0.00853	0	25.7	
Anthracene	0.00964	0.0001	0.00030	0.01	0	96.4	59.1	108	0.00911	5.65	18.2	
Benzo(a)anthracene	0.0106	0.00003	0.00009	0.01	0	106	61.7	109	0.00936	12.4	15	
Benzo(a)pyrene	0.01	0.00004	0.00012	0.01	0	100	53.7	119	0.00939	6.28	15.1	
Benzo(b)fluoranthene	0.00979	0.00005	0.00015	0.01	0	97.9	60.3	107	0.00932	4.92	15.8	
Benzo(g,h,i)perylene	0.0101	0.0001	0.00030	0.01	0	101	59.4	115	0.00954	5.70	16.4	
Benzo(k)fluoranthene	0.00942	0.00005	0.00015	0.01	0	94.2	62.6	109	0.00942	0	15.2	
Chrysene	0.00995	0.00015	0.00045	0.01	0	99.5	60.3	110	0.00956	4.00	15.9	
Dibenzo(a,h)anthracene	0.00992	0.00006	0.00018	0.01	0	99.2	61	108	0.00926	6.88	16.3	
Fluoranthene	0.0098	0.0003	0.00090	0.01	0	98	59.3	108	0.00937	4.49	16.8	
Fluorene	0.00961	0.0001	0.00030	0.01	0	96.1	44.8	103	0.0089	7.67	27.5	
Indeno(1,2,3-cd)pyrene	0.00981	0.0001	0.00030	0.01	0	98.1	61	112	0.00924	5.99	15.8	
Naphthalene	0.00804	0.001	0.00300	0.01	0	80.4	45.6	91.9	0.00753	6.55	25	
Phenanthrene	0.00987	0.0002	0.00060	0.01	0	98.7	55.8	110	0.00916	7.46	23.2	
Pyrene	0.0102	0.0001	0.00030	0.01	0	102	50.7	109	0.00982	3.80	16.7	
Surr: Terphenyl-d14	0.00945	0	0	0.01	0	94.5	59.9	111	0	0	20	

Qual: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NOTE: LIMS MDL and PQL are adjusted for dilutions.

CLIENT: Kelron Environmental
Work Order: 05060318
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **05060318-006AMS** SampType: **MS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **6/14/2005** Run ID: **HPLC INST. C_050614A**
Client ID: **107052** Batch ID: **25734** TestNo: **SW8310** Analysis Date: **6/14/2005** SeqNo: **1020677**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00838	0.001	0.00300	0.01	0	83.8	17.5	116	0	0		
Anthracene	0.00871	0.0001	0.00030	0.01	0	87.1	55.5	111	0	0		
Benzo(a)anthracene	0.00864	0.00003	0.00009	0.01	0	86.4	52	115	0	0		
Benzo(a)pyrene	0.00916	0.00004	0.00012	0.01	0	91.6	46.8	122	0	0		
Benzo(b)fluoranthene	0.00845	0.00005	0.00015	0.01	0	84.5	52.6	112	0	0		
Benzo(g,h,i)perylene	0.00883	0.0001	0.00030	0.01	0	88.3	52.7	116	0	0		
Benzo(k)fluoranthene	0.00858	0.00005	0.00015	0.01	0	85.8	51.1	118	0	0		
Chrysene	0.00869	0.00015	0.00045	0.01	0	86.9	52.1	113	0	0		
Dibenzo(a,h)anthracene	0.00853	0.00006	0.00018	0.01	0	85.3	53.6	110	0	0		
Fluoranthene	0.00855	0.0003	0.00090	0.01	0	85.5	45.5	117	0	0		
Fluorene	0.00818	0.0001	0.00030	0.01	0	81.8	31.7	104	0	0		
Indeno(1,2,3-cd)pyrene	0.00845	0.0001	0.00030	0.01	0	84.5	52.1	117	0	0		
Phenanthrene	0.00843	0.0002	0.00060	0.01	0	84.3	47.3	120	0	0		
Pyrene	0.00871	0.0001	0.00030	0.01	0	87.1	51.2	108	0	0		
Surr: Terphenyl-d14	0.00882	0	0	0.01	0	88.2	53.1	120	0	0		

Sample ID: **05060318-006AMS** SampType: **MS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **6/14/2005** Run ID: **HPLC INST. C_050614A**
Client ID: **107052** Batch ID: **25734** TestNo: **SW8310** Analysis Date: **6/14/2005** SeqNo: **1020690**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	0.0567	0.0025	0.00750	0.01	0.0445	122	18.7	140	0	0		
Naphthalene	0.068	0.005	0.0150	0.01	0.0594	86	24.5	115	0	0		

Sample ID: **05060318-006AMSD** SampType: **MSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **6/14/2005** Run ID: **HPLC INST. C_050614A**
Client ID: **107052** Batch ID: **25734** TestNo: **SW8310** Analysis Date: **6/14/2005** SeqNo: **1020686**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0076	0.001	0.00300	0.01	0	76	17.5	116	0.00838	9.76	40	
Anthracene	0.00892	0.0001	0.00030	0.01	0	89.2	55.5	111	0.00871	2.38	40	
Benzo(a)anthracene	0.00882	0.00003	0.00009	0.01	0	88.2	52	115	0.00864	2.06	40	
Benzo(a)pyrene	0.00941	0.00004	0.00012	0.01	0	94.1	46.8	122	0.00916	2.69	40	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05060318
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: 05060318-006AMSD	SampType: MSD	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 6/14/2005	Run ID: HPLC INST. C_050614A
Client ID: 107052	Batch ID: 25734	TestNo: SW8310		Analysis Date: 6/14/2005	SeqNo: 1020686

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	0.0087	0.00005	0.00015	0.01	0	87	52.6	112	0.00845	2.92	40	
Benzo(g,h,i)perylene	0.00905	0.0001	0.00030	0.01	0	90.5	52.7	116	0.00883	2.46	40	
Benzo(k)fluoranthene	0.0088	0.00005	0.00015	0.01	0	88	51.1	118	0.00858	2.53	40	
Chrysene	0.00897	0.00015	0.00045	0.01	0	89.7	52.1	113	0.00869	3.17	40	
Dibenzo(a,h)anthracene	0.00878	0.00006	0.00018	0.01	0	87.8	53.6	110	0.00853	2.89	40	
Fluoranthene	0.00872	0.0003	0.00090	0.01	0	87.2	45.5	117	0.00855	1.97	40	
Fluorene	0.00851	0.0001	0.00030	0.01	0	85.1	31.7	104	0.00818	3.95	40	
Indeno(1,2,3-cd)pyrene	0.00864	0.0001	0.00030	0.01	0	86.4	52.1	117	0.00845	2.22	40	
Phenanthrene	0.0086	0.0002	0.00060	0.01	0	86	47.3	120	0.00843	2.00	40	
Pyrene	0.00892	0.0001	0.00030	0.01	0	89.2	51.2	108	0.00871	2.38	40	
Surr: Terphenyl-d14	0.00903	0	0	0.01	0	90.3	53.1	120	0	0	40	

Sample ID: 05060318-006AMSD	SampType: MSD	TestCode: SV_8310S_W	Units: mg/L	Prep Date: 6/14/2005	Run ID: HPLC INST. C_050614A
Client ID: 107052	Batch ID: 25734	TestNo: SW8310		Analysis Date: 6/14/2005	SeqNo: 1020691

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	0.0561	0.0025	0.00750	0.01	0.0445	116	18.7	140	0.0567	1.06	40	
Naphthalene	0.0668	0.005	0.0150	0.01	0.0594	74	24.5	115	0.068	1.78	40	

Qual: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NOTE: LIMS MDL and PQL are adjusted for dilutions

CLIENT: Kelron Environmental
Work Order: 05060318
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-G050612-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **6/12/2005** Run ID: **5972 INST. G_050612A**
Client ID: **ZZZZZ** Batch ID: **25716** TestNo: **SW8260B** Analysis Date: **6/12/2005** SeqNo: **1018111**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.6	0.5	2.0	50	0	93.2	77.4	120	0	0		
Toluene	46.3	1	5.0	50	0	92.6	81.6	118	0	0		
Ethylbenzene	53.9	1	5.0	50	0	107.8	78.5	122	0	0		
Naphthalene	51.3	2	10	50	2.2	98.2	70	130	0	0		
Xylenes, Total	107	1	5.0	100	0	107	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	50.8	0	0	50	0	101.6	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.5	0	0	50	0	99	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49.2	0	0	50	0	98.4	88.9	121.2	0	0		
Surr: Toluene-d8	47.6	0	0	50	0	95.2	84.1	114.5	0	0		

Sample ID: **MBLK-G050612-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **6/12/2005** Run ID: **5972 INST. G_050612A**
Client ID: **ZZZZZ** Batch ID: **25716** TestNo: **SW8260B** Analysis Date: **6/12/2005** SeqNo: **1018112**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5	2.0									
Toluene	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Naphthalene	2.2	2	10									J
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	48.7	0	0	50	0	97.4	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.8	0	0	50	0	99.6	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49.2	0	0	50	0	98.4	88.9	121.2	0	0		
Surr: Toluene-d8	47.8	0	0	50	0	95.6	84.1	114.5	0	0		

Sample ID: **05060318-006BMS** SampType: **MS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **6/12/2005** Run ID: **5972 INST. G_050612A**
Client ID: **107052** Batch ID: **25716** TestNo: **SW8260B** Analysis Date: **6/12/2005** SeqNo: **1018124**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	754	2.5	10	250	549	82	59.8	141	0	0		
Toluene	215	5	25.0	250	0	86	62.4	138	0	0		
Ethylbenzene	264	5	25.0	250	27.8	94.5	64.8	141	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Kelron Environmental
Work Order: 05060318
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **05060318-006BMS**	SampType: **MS**	TestCode: **V_BTEX_W**	Units: **µg/L**	Prep Date: **6/12/2005**	Run ID: **5972 INST. G_050612A**
Client ID: **107052**	Batch ID: **25716**	TestNo: **SW8260B**		Analysis Date: **6/12/2005**	SeqNo: **1018124**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	532	5	25.0	500	49.2	96.6	51.2	157	0	0		
Surr: 1,2-Dichloroethane-d4	241	0	0	250	0	96.4	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	247	0	0	250	0	98.8	81.1	113.3	0	0		
Surr: Dibromofluoromethane	248	0	0	250	0	99.2	88.9	121.2	0	0		
Surr: Toluene-d8	244	0	0	250	0	97.6	84.1	114.5	0	0		

Sample ID: **05060318-006BMSD**	SampType: **MSD**	TestCode: **V_BTEX_W**	Units: **µg/L**	Prep Date: **6/12/2005**	Run ID: **5972 INST. G_050612A**
Client ID: **107052**	Batch ID: **25716**	TestNo: **SW8260B**		Analysis Date: **6/13/2005**	SeqNo: **1018125**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	801	2.5	10	250	549	100.8	59.8	141	754	6.04	15	
Toluene	268	5	25.0	250	0	107.2	62.4	138	215	21.9	15	R
Ethylbenzene	319	5	25.0	250	27.8	116.5	64.8	141	264	18.9	15	R
Xylenes, Total	634	5	25.0	500	49.2	117	51.2	157	532	17.5	15	R
Surr: 1,2-Dichloroethane-d4	236	0	0	250	0	94.4	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	245	0	0	250	0	98	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	247	0	0	250	0	98.8	88.9	121.2	0	0	0	
Surr: Toluene-d8	240	0	0	250	0	96	84.1	114.5	0	0	0	

Qual: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
NOTE: LIMS MDL and PQL are adjusted for dilutions
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

WORK ORDER SAMPLE SUMMARY

Client: Kelron Environmental
Project: CHMGP/162363
Lab Order: 05060318
Date Received: 6/10/2005

Date: *16-Jun-05*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
05060318-001A	112052		6/9/2005 7:48:00 AM
05060318-002A	102052		6/9/2005 8:21:00 AM
05060318-003A	111052		6/9/2005 9:02:00 AM
05060318-004A	108052		6/9/2005 9:42:00 AM
05060318-005A	116052		6/9/2005 10:10:00 AM
05060318-006A	107052		6/9/2005 10:34:00 AM
05060318-006B	107052		6/9/2005 10:34:00 AM
05060318-007A	114052		6/9/2005 11:20:00 AM
05060318-007B	114052		6/9/2005 11:20:00 AM
05060318-008A	115052		6/9/2005 12:01:00 PM
05060318-009A	115952		6/9/2005 12:02:00 PM
05060318-010A	Trip Blank		6/3/2005 9:05:00 AM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

October 07, 2005

Stu Cravens
Kelron Environmental
1213 Dorchester
Champaign, IL 61821
TEL: (217) 390-1503
FAX: (217) 355-1385

NELAP Accredited #100226

RE: CHMGP/162363

OrderNo. 05090845

Dear Stu Cravens:

TEKLAB, INC received 10 samples on 9/29/2005 8:10:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 05090845
Report Date: October 07, 2005

REPORT CONTENTS

This reporting package includes the following:

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 05090845
Report Date: October 07, 2005

CASE NARRATIVE

Cooler Receipt Tem 2.2 °C

A significant amount of headspace was present in one of the TB volatile vials.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05090845
Lab ID: 05090845-001
Report Date: 07-Oct-05

Client Project: CHMGP/162363
Client Sample ID 112053
Collection Date: 9/27/2005 8:14:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	9/30/2005 4:32:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	9/30/2005 4:32:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	9/30/2005 4:32:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	9/30/2005 4:32:00 PM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	9/30/2005 4:32:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		87.8	%REC	1	9/30/2005 4:32:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		103	%REC	1	9/30/2005 4:32:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		94.6	%REC	1	9/30/2005 4:32:00 PM	GEK
Surr: Toluene-d8		85.5-115		102	%REC	1	9/30/2005 4:32:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05090845	**Client Sample ID**	102053
Lab ID:	05090845-002	**Collection Date:**	9/27/2005 9:01:00 AM
Report Date:	07-Oct-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/30/2005 5:03:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	9/30/2005 5:03:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/30/2005 5:03:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/30/2005 5:03:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	9/30/2005 5:03:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73 9-129		**90.0**	%REC	1	9/30/2005 5:03:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**104**	%REC	1	9/30/2005 5:03:00 PM	GEK
Surr: Dibromofluoromethane		83 8-118		**95.2**	%REC	1	9/30/2005 5:03:00 PM	GEK
Surr: Toluene-d8		85 5-115		**101**	%REC	1	9/30/2005 5:03:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05090845	**Client Sample ID**	111053
Lab ID:	05090845-003	**Collection Date:**	9/27/2005 9:39:00 AM
Report Date:	07-Oct-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/30/2005 5:33:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	9/30/2005 5:33:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/30/2005 5:33:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/30/2005 5:33:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	9/30/2005 5:33:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**90.4**	%REC	1	9/30/2005 5:33:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**102**	%REC	1	9/30/2005 5:33:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**94.2**	%REC	1	9/30/2005 5:33:00 PM	GEK
Surr: Toluene-d8		85.5-115		**102**	%REC	1	9/30/2005 5:33:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05090845
Lab ID: 05090845-004
Report Date: 07-Oct-05

Client Project: CHMGP/162363
Client Sample ID 108053
Collection Date: 9/27/2005 10:13:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	9/30/2005 6:04:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	9/30/2005 6:04:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	9/30/2005 6:04:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	9/30/2005 6:04:00 PM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	9/30/2005 6:04:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73 9-129		90.2	%REC	1	9/30/2005 6:04:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		103	%REC	1	9/30/2005 6:04:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		94.0	%REC	1	9/30/2005 6:04:00 PM	GEK
Surr: Toluene-d8		85.5-115		101	%REC	1	9/30/2005 6:04:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05090845
Lab ID: 05090845-005
Report Date: 07-Oct-05

Client Project: CHMGP/162363
Client Sample ID 116053
Collection Date: 9/27/2005 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/30/2005 6:35:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	9/30/2005 6:35:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/30/2005 6:35:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/30/2005 6:35:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	9/30/2005 6:35:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**88.6**	%REC	1	9/30/2005 6:35:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**104**	%REC	1	9/30/2005 6:35:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**96.0**	%REC	1	9/30/2005 6:35:00 PM	GEK
Surr: Toluene-d8		85.5-115		**102**	%REC	1	9/30/2005 6:35:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05090845	**Client Sample ID**	116953
Lab ID:	05090845-006	**Collection Date:**	9/27/2005 10:51:00 AM
Report Date:	07-Oct-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/30/2005 7:06:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	9/30/2005 7:06:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/30/2005 7:06:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/30/2005 7:06:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	9/30/2005 7:06:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**94.4**	%REC	1	9/30/2005 7:06:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**102**	%REC	1	9/30/2005 7:06:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**95.0**	%REC	1	9/30/2005 7:06:00 PM	GEK
Surr: Toluene-d8		85.5-115		**104**	%REC	1	9/30/2005 7:06:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	05090845	**Client Sample ID**	107053
Lab ID:	05090845-007	**Collection Date:**	9/27/2005 11:25:00 AM
Report Date:	07-Oct-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Acenaphthylene	NELAP	0.00150		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Anthracene	NELAP	0.00030		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Chrysene	NELAP	0.00045		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Fluoranthene	NELAP	0.00090		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Fluorene	NELAP	0.00030		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Naphthalene	NELAP	0.0150		0.0580	mg/L	5	10/4/2005 12:11:46 PM	MAM
Phenanthrene	NELAP	0.00060		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Pyrene	NELAP	0.00030		ND	mg/L	1	10/3/2005 4:00:39 PM	MAM
Surr: Terphenyl-d14		53.1-120		95.6	%REC	1	10/3/2005 4:00:39 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	10		344	µg/L	5	9/30/2005 12:15:00 PM	GEK
Toluene	NELAP	5.0	J	2.6	µg/L	1	9/30/2005 1:47:00 PM	GEK
Ethylbenzene	NELAP	5.0		17.1	µg/L	1	9/30/2005 1:47:00 PM	GEK
Xylenes, Total	NELAP	5.0		32.1	µg/L	1	9/30/2005 1:47:00 PM	GEK
Naphthalene	NELAP	10		82.6	µg/L	1	9/30/2005 1:47:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		86.0	%REC	1	9/30/2005 1:47:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		103	%REC	1	9/30/2005 1:47:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		94.8	%REC	1	9/30/2005 1:47:00 PM	GEK
Surr: Toluene-d8		85.5-115		102	%REC	1	9/30/2005 1:47:00 PM	GEK

Sample Narrative

SW-846 3510C. 8310, PolyNuclear Aromatic Hydrocarbons by HPLC

MSD Acenapthylene was outside of QC limits due to matrix interference confirmed on mass spec

MS Acenapthylene was outside of QC limits due to matrix interference confirmed on mass spec

SW-846 5030, 8260B. Volatile Organic Compounds by GC/MS

MSD RPD was outside of QC limit due to sample composition

MS Matrix spike recoveries were lower than the QC limits because of sample composition Sample concentration of benzene was greater than 5 times the spike concentration.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05090845
Lab ID: 05090845-008
Report Date: 07-Oct-05

Client Project: CHMGP/162363
Client Sample ID 114053
Collection Date: 9/27/2005 12:55:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.150		**0.208**	mg/L	50	10/4/2005 11:54:18 AM	MAM
Acenaphthylene	NELAP	0.00150		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Anthracene	NELAP	0.00030		**0.00082**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Chrysene	NELAP	0.00045		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Fluoranthene	NELAP	0.00090		**0.00109**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Fluorene	NELAP	0.00030		**0.0444**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Naphthalene	NELAP	1.50		**11.5**	mg/L	500	10/4/2005 3:50:30 PM	MAM
Phenanthrene	NELAP	0.00060		**0.00987**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Pyrene	NELAP	0.00030		**0.00040**	mg/L	1	10/3/2005 4:53:01 PM	MAM
Surr: Terphenyl-d14		53.1-120		**73.3**	%REC	1	10/3/2005 4:53:01 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	50.0		**1130**	µg/L	25	9/30/2005 1:17:00 PM	GEK
Toluene	NELAP	125		**190**	µg/L	25	9/30/2005 1:17:00 PM	GEK
Ethylbenzene	NELAP	125		**1370**	µg/L	25	9/30/2005 1:17:00 PM	GEK
Xylenes, Total	NELAP	125		**1010**	µg/L	25	9/30/2005 1:17:00 PM	GEK
Naphthalene	NELAP	2000		**6420**	µg/L	200	9/30/2005 4:01:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**90.4**	%REC	25	9/30/2005 1:17:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**104**	%REC	25	9/30/2005 1:17:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**96.0**	%REC	25	9/30/2005 1:17:00 PM	GEK
Surr: Toluene-d8		85.5-115		**103**	%REC	25	9/30/2005 1:17:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05090845
Lab ID: 05090845-009
Report Date: 07-Oct-05

Client Project: CHMGP/162363
Client Sample ID 115053
Collection Date: 9/27/2005 1:27:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		12.5	µg/L	1	9/30/2005 7:37:00 PM	GEK
Toluene	NELAP	5.0	J	1.1	µg/L	1	9/30/2005 7:37:00 PM	GEK
Ethylbenzene	NELAP	5.0	J	1.9	µg/L	1	9/30/2005 7:37:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	9/30/2005 7:37:00 PM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	9/30/2005 7:37:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		95.6	%REC	1	9/30/2005 7:37:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		104	%REC	1	9/30/2005 7:37:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		96.8	%REC	1	9/30/2005 7:37:00 PM	GEK
Surr: Toluene-d8		85.5-115		104	%REC	1	9/30/2005 7:37:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05090845
Lab ID: 05090845-010
Report Date: 07-Oct-05

Client Project: CHMGP/162363
Client Sample ID TB
Collection Date: 9/16/2005 11:10:00 AM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	9/30/2005 9:39:00 AM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	9/30/2005 9:39:00 AM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	9/30/2005 9:39:00 AM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	9/30/2005 9:39:00 AM	GEK
Naphthalene	NELAP	10		ND	µg/L	1	9/30/2005 9:39:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		90.0	%REC	1	9/30/2005 9:39:00 AM	GEK
Surr: 4-Bromofluorobenzene		83-113		103	%REC	1	9/30/2005 9:39:00 AM	GEK
Surr: Dibromofluoromethane		83.8-118		95.6	%REC	1	9/30/2005 9:39:00 AM	GEK
Surr: Toluene-d8		85.5-115		105	%REC	1	9/30/2005 9:39:00 AM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

January 09, 2006

Stu Cravens
Kelron Environmental
1213 Dorchester
Champaign, IL 61821
TEL: (217) 390-1503
FAX: (217) 355-1385

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: CH MGP/162363

OrderNo. 05120697

Dear Stu Cravens:

TEKLAB, INC received 10 samples on 12/29/2005 8:45:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CH MGP/162363
LabOrder: 05120697
Report Date: January 09, 2006

REPORT CONTENTS

This reporting package includes the following:

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CH MGP/162363
LabOrder: 05120697
Report Date: January 09, 2006

CASE NARRATIVE

Cooler Receipt Temp 2.6 °C

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	* - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05120697
Lab ID: 05120697-001
Report Date: 09-Jan-06

Client Project: CH MGP/162363
Client Sample ID: 112054
Collection Date: 12/27/2005 9:47:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	12/30/2005 2:29:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	12/30/2005 2:29:00 AM	TAL
Naphthalene	NELAP	10		ND	µg/L	1	12/30/2005 2:29:00 AM	TAL
Toluene	NELAP	5.0		ND	µg/L	1	12/30/2005 2:29:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	12/30/2005 2:29:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		106	%REC	1	12/30/2005 2:29:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		101	%REC	1	12/30/2005 2:29:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		99.5	%REC	1	12/30/2005 2:29:00 AM	TAL
Surr: Toluene-d8		85.5-115		101	%REC	1	12/30/2005 2:29:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CH MGP/162363
WorkOrder:	05120697	**Client Sample ID:**	102054
Lab ID:	05120697-002	**Collection Date:**	12/27/2005 9:20:00 AM
Report Date:	09-Jan-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/30/2005 3:00:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 3:00:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/30/2005 3:00:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 3:00:00 AM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	12/30/2005 3:00:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**106**	%REC	1	12/30/2005 3:00:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**100**	%REC	1	12/30/2005 3:00:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**99.4**	%REC	1	12/30/2005 3:00:00 AM	TAL
Surr: Toluene-d8		85.5-115		**102**	%REC	1	12/30/2005 3:00:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CH MGP/162363
WorkOrder:	05120697	**Client Sample ID:**	111054
Lab ID:	05120697-003	**Collection Date:**	12/27/2005 10:18:00 AM
Report Date:	09-Jan-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/30/2005 3:30:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 3:30:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/30/2005 3:30:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 3:30:00 AM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	12/30/2005 3:30:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73 9-129		**106**	%REC	1	12/30/2005 3:30:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**102**	%REC	1	12/30/2005 3:30:00 AM	TAL
Surr: Dibromofluoromethane		83 8-118		**99.8**	%REC	1	12/30/2005 3:30:00 AM	TAL
Surr: Toluene-d8		85 5-115		**103**	%REC	1	12/30/2005 3:30:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05120697
Lab ID: 05120697-004
Report Date: 09-Jan-06

Client Project: CH MGP/162363
Client Sample ID: 108054
Collection Date: 12/27/2005 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/30/2005 4:01:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 4:01:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/30/2005 4:01:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 4:01:00 AM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	12/30/2005 4:01:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73 9-129		**106**	%REC	1	12/30/2005 4:01:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**101**	%REC	1	12/30/2005 4:01:00 AM	TAL
Surr: Dibromofluoromethane		83 8-118		**99.2**	%REC	1	12/30/2005 4:01:00 AM	TAL
Surr: Toluene-d8		85 5-115		**102**	%REC	1	12/30/2005 4:01:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CH MGP/162363
WorkOrder:	05120697	**Client Sample ID:**	116054
Lab ID:	05120697-005	**Collection Date:**	12/27/2005 11:25:00 AM
Report Date:	09-Jan-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/30/2005 4:31:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 4:31:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/30/2005 4:31:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 4:31:00 AM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	12/30/2005 4:31:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**106**	%REC	1	12/30/2005 4:31:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**101**	%REC	1	12/30/2005 4:31:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**99.6**	%REC	1	12/30/2005 4:31:00 AM	TAL
Surr: Toluene-d8		85.5-115		**102**	%REC	1	12/30/2005 4:31:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05120697
Lab ID: 05120697-006
Report Date: 09-Jan-06

Client Project: CH MGP/162363
Client Sample ID: 107054
Collection Date: 12/27/2005 11:51:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Acenaphthylene	NELAP	0.00150		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Anthracene	NELAP	0.00030		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Chrysene	NELAP	0.00045		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Fluoranthene	NELAP	0.00090		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Fluorene	NELAP	0.00030		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Naphthalene	NELAP	0.0300	S	0.130	mg/L	10	1/3/2006 1:02:02 PM	MAM
Phenanthrene	NELAP	0.00060		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Pyrene	NELAP	0.00030		ND	mg/L	1	12/30/2005 2:27:40 PM	MAM
Surr: Terphenyl-d14		53.1-120		87.9	%REC	1	12/30/2005 2:27:40 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	40.0		859	µg/L	20	12/30/2005 12:28:00 PM	TAL
Ethylbenzene	NELAP	25.0		46.5	µg/L	5	12/30/2005 5:01:00 AM	TAL
Naphthalene	NELAP	50.0		186	µg/L	5	12/30/2005 5:01:00 AM	TAL
Toluene	NELAP	25.0	J	5.4	µg/L	5	12/30/2005 5:01:00 AM	TAL
Xylenes, Total	NELAP	25.0		54.4	µg/L	5	12/30/2005 5:01:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		106	%REC	5	12/30/2005 5:01:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		100	%REC	5	12/30/2005 5:01:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		96.6	%REC	5	12/30/2005 5:01:00 AM	TAL
Surr: Toluene-d8		85.5-115		102	%REC	5	12/30/2005 5:01:00 AM	TAL

Sample Narrative

SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC
Matrix interference present in sample.
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS
Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05120697
Lab ID: 05120697-007
Report Date: 09-Jan-06

Client Project: CH MGP/162363
Client Sample ID: 107954
Collection Date: 12/27/2005 11:58:00 AM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Acenaphthylene	NELAP	0.00150		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Anthracene	NELAP	0.00030		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Chrysene	NELAP	0.00045		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Fluorene	NELAP	0.00030		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Naphthalene	NELAP	0.0300		**0.140**	mg/L	10	1/3/2006 1:54:22 PM	MAM
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Pyrene	NELAP	0.00030		**ND**	mg/L	1	12/30/2005 3:20:01 PM	MAM
Surr: Terphenyl-d14		53.1-120		**84.7**	%REC	1	12/30/2005 3:20:01 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	40.0		**998**	µg/L	20	12/30/2005 1:59:00 PM	TAL
Ethylbenzene	NELAP	25.0		**45.8**	µg/L	5	12/30/2005 6:33:00 AM	TAL
Naphthalene	NELAP	50.0		**181**	µg/L	5	12/30/2005 6:33:00 AM	TAL
Toluene	NELAP	25.0	J	**5.7**	µg/L	5	12/30/2005 6:33:00 AM	TAL
Xylenes, Total	NELAP	25.0		**54.6**	µg/L	5	12/30/2005 6:33:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**107**	%REC	5	12/30/2005 6:33:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**102**	%REC	5	12/30/2005 6:33:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**97.7**	%REC	5	12/30/2005 6:33:00 AM	TAL
Surr: Toluene-d8		85.5-115		**103**	%REC	5	12/30/2005 6:33:00 AM	TAL

Sample Narrative
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS
Elevated reporting limit due to high levels of target and/or non-target analytes

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05120697
Lab ID: 05120697-008
Report Date: 09-Jan-06

Client Project: CH MGP/162363
Client Sample ID: 114054
Collection Date: 12/27/2005 12:51:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.300	J	**0.236**	mg/L	100	1/3/2006 2:11:48 PM	MAM
Acenaphthylene	NELAP	0.150		**ND**	mg/L	100	1/3/2006 2:11:48 PM	MAM
Anthracene	NELAP	0.00030		**ND**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		**0.00111**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		**0.00107**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		**0.00049**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		**0.00044**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Chrysene	NELAP	0.00045		**0.00122**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Fluoranthene	NELAP	0.00090		**0.00466**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Fluorene	NELAP	0.0300		**0.0686**	mg/L	100	1/3/2006 2:11:48 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**0.00031**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Naphthalene	NELAP	1.50		**5.98**	mg/L	500	1/4/2006 10:25:16 AM	MAM
Phenanthrene	NELAP	0.00060		**0.0128**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Pyrene	NELAP	0.00030		**0.00229**	mg/L	1	12/30/2005 3:37:28 PM	MAM
Surr: Terphenyl-d14		53.1-120		**92.0**	%REC	1	12/30/2005 3:37:28 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	20.0		**939**	µg/L	10	12/30/2005 2:30:00 PM	TAL
Ethylbenzene	NELAP	50.0		**1150**	µg/L	10	12/30/2005 2:30:00 PM	TAL
Naphthalene	NELAP	2000		**5750**	µg/L	200	12/30/2005 6:34:00 PM	TAL
Toluene	NELAP	50.0		**133**	µg/L	10	12/30/2005 2:30:00 PM	TAL
Xylenes, Total	NELAP	50.0		**891**	µg/L	10	12/30/2005 2:30:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**106**	%REC	10	12/30/2005 2:30:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**96.6**	%REC	10	12/30/2005 2:30:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**97.2**	%REC	10	12/30/2005 2:30:00 PM	TAL
Surr: Toluene-d8		85.5-115		**102**	%REC	10	12/30/2005 2:30:00 PM	TAL

Sample Narrative
SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC
Surrogate diluted out.
Elevated reporting limit due to high levels of target and/or non-target analytes

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 05120697
Lab ID: 05120697-009
Report Date: 09-Jan-06

Client Project: CH MGP/162363
Client Sample ID: 115054
Collection Date: 12/27/2005 1:52:00 PM
Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**4.1**	µg/L	1	12/30/2005 6:03:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 6:03:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/30/2005 6:03:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/30/2005 6:03:00 PM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	12/30/2005 6:03:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**103**	%REC	1	12/30/2005 6:03:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**101**	%REC	1	12/30/2005 6:03:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**100**	%REC	1	12/30/2005 6:03:00 PM	TAL
Surr: Toluene-d8		85.5-115		**99.1**	%REC	1	12/30/2005 6:03:00 PM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CH MGP/162363
WorkOrder:	05120697	**Client Sample ID:**	Trip Blank
Lab ID:	05120697-010	**Collection Date:**	11/29/2005 8:45:00 AM
Report Date:	09-Jan-06	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0	H	**ND**	µg/L	1	12/30/2005 1:59:00 AM	TAL
Ethylbenzene	NELAP	5.0	H	**ND**	µg/L	1	12/30/2005 1:59:00 AM	TAL
Naphthalene	NELAP	10	H	**ND**	µg/L	1	12/30/2005 1:59:00 AM	TAL
Toluene	NELAP	5.0	H	**ND**	µg/L	1	12/30/2005 1:59:00 AM	TAL
Xylenes, Total	NELAP	5.0	H	**ND**	µg/L	1	12/30/2005 1:59:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129	H	**107**	%REC	1	12/30/2005 1:59:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113	H	**101**	%REC	1	12/30/2005 1:59:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118	H	**99.4**	%REC	1	12/30/2005 1:59:00 AM	TAL
Surr: Toluene-d8		85.5-115	H	**101**	%REC	1	12/30/2005 1:59:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

April 06, 2006

Stu Cravens
Kelron Environmental
1213 Dorchester
Champaign, IL 61821
TEL: (217) 390-1503
FAX: (217) 355-1385

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: CHMGP/162363

OrderNo. 06030912

Dear Stu Cravens:

TEKLAB, INC received 10 samples on 3/31/2006 7:45:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations
618-344-1004 ex.16

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 06030912
Report Date: April 06, 2006

REPORT CONTENTS

This reporting package includes the following:

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 06030912
Report Date: April 06, 2006

CASE NARRATIVE

Cooler Receipt Temp 0.8 °C

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	**X** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06030912	**Client Sample ID:**	112061
Lab ID:	06030912-001	**Collection Date:**	3/30/2006 7:20:00 AM
Report Date:	06-Apr-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/31/2006 4:54:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 4:54:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/31/2006 4:54:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 4:54:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/31/2006 4:54:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**102**	%REC	1	3/31/2006 4:54:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**106**	%REC	1	3/31/2006 4:54:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**104**	%REC	1	3/31/2006 4:54:00 PM	GEK
Surr: Toluene-d8		85.5-115		**99.4**	%REC	1	3/31/2006 4:54:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06030912	**Client Sample ID:**	102061
Lab ID:	06030912-002	**Collection Date:**	3/30/2006 7:47:00 AM
Report Date:	06-Apr-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/31/2006 5:24:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 5:24:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/31/2006 5:24:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 5:24:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/31/2006 5:24:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**108**	%REC	1	3/31/2006 5:24:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**106**	%REC	1	3/31/2006 5:24:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**106**	%REC	1	3/31/2006 5:24:00 PM	GEK
Surr: Toluene-d8		85.5-115		**97.7**	%REC	1	3/31/2006 5:24:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06030912	**Client Sample ID:**	111061
Lab ID:	06030912-003	**Collection Date:**	3/30/2006 8:22:00 AM
Report Date:	06-Apr-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/31/2006 5:54:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 5:54:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/31/2006 5:54:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 5:54:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/31/2006 5:54:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**108**	%REC	1	3/31/2006 5:54:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**106**	%REC	1	3/31/2006 5:54:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**105**	%REC	1	3/31/2006 5:54:00 PM	GEK
Surr: Toluene-d8		85.5-115		**99.1**	%REC	1	3/31/2006 5:54:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06030912	**Client Sample ID:**	108061
Lab ID:	06030912-004	**Collection Date:**	3/30/2006 8:55:00 AM
Report Date:	06-Apr-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/31/2006 6:25:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 6:25:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/31/2006 6:25:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 6:25:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/31/2006 6:25:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**109**	%REC	1	3/31/2006 6:25:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**106**	%REC	1	3/31/2006 6:25:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**105**	%REC	1	3/31/2006 6:25:00 PM	GEK
Surr: Toluene-d8		85.5-115		**99.0**	%REC	1	3/31/2006 6:25:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06030912
Lab ID: 06030912-005
Report Date: 06-Apr-06

Client Project: CHMGP/162363
Client Sample ID: 108961
Collection Date: 3/30/2006 8:57:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/31/2006 6:55:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 6:55:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/31/2006 6:55:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 6:55:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/31/2006 6:55:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**105**	%REC	1	3/31/2006 6:55:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**107**	%REC	1	3/31/2006 6:55:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**104**	%REC	1	3/31/2006 6:55:00 PM	GEK
Surr: Toluene-d8		85.5-115		**99.3**	%REC	1	3/31/2006 6:55:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06030912
Lab ID: 06030912-006
Report Date: 06-Apr-06

Client Project: CHMGP/162363
Client Sample ID: 116061
Collection Date: 3/30/2006 9:40:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/31/2006 7:26:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 7:26:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/31/2006 7:26:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 7:26:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/31/2006 7:26:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**109**	%REC	1	3/31/2006 7:26:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**103**	%REC	1	3/31/2006 7:26:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**102**	%REC	1	3/31/2006 7:26:00 PM	GEK
Surr: Toluene-d8		85.5-115		**99.0**	%REC	1	3/31/2006 7:26:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06030912
Lab ID: 06030912-007
Report Date: 06-Apr-06

Client Project: CHMGP/162363
Client Sample ID: 107061
Collection Date: 3/30/2006 10:07:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Acenaphthylene	NELAP	0.00150		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Anthracene	NELAP	0.00030		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Chrysene	NELAP	0.00045		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Fluoranthene	NELAP	0.00090		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Fluorene	NELAP	0.00030		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Naphthalene	NELAP	0.0300		**0.0578**	mg/L	10	4/6/2006 9:41:21 AM	MAM
Phenanthrene	NELAP	0.00060		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Pyrene	NELAP	0.00030		ND	mg/L	1	4/4/2006 4:48:56 PM	MAM
Surr: Terphenyl-d14		53.1-120		**88.0**	%REC	1	4/4/2006 4:48:56 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	40.0		**231**	µg/L	20	3/31/2006 8:57:00 PM	GEK
Ethylbenzene	NELAP	5.0		**18.6**	µg/L	1	4/1/2006 2:11:00 AM	GEK
Naphthalene	NELAP	10		**100**	µg/L	1	4/1/2006 2:11:00 AM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	4/1/2006 2:11:00 AM	GEK
Xylenes, Total	NELAP	5.0		**28.6**	µg/L	1	4/1/2006 2:11:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**110**	%REC	1	4/1/2006 2:11:00 AM	GEK
Surr: 4-Bromofluorobenzene		83-113		**101**	%REC	1	4/1/2006 2:11:00 AM	GEK
Surr: Dibromofluoromethane		83.8-118		**98.6**	%REC	1	4/1/2006 2:11:00 AM	GEK
Surr: Toluene-d8		85.5-115		**99.1**	%REC	1	4/1/2006 2:11:00 AM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06030912
Lab ID: 06030912-008
Report Date: 06-Apr-06

Client Project: CHMGP/162363
Client Sample ID: 114061
Collection Date: 3/30/2006 12:18:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.0300		**0.0991**	mg/L	10	4/6/2006 10:51:12 AM	MAM
Acenaphthylene	NELAP	0.00150		**ND**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Anthracene	NELAP	0.00030		**ND**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		**0.00041**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		**0.00027**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Chrysene	NELAP	0.00045		**ND**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Fluoranthene	NELAP	0.00090		**0.00181**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Fluorene	NELAP	0.00300		**0.0494**	mg/L	10	4/6/2006 10:51:12 AM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Naphthalene	NELAP	3.00		**6.00**	mg/L	1000	4/6/2006 11:26:08 AM	MAM
Phenanthrene	NELAP	0.00060		**0.0113**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Pyrene	NELAP	0.00030		**0.00136**	mg/L	1	4/4/2006 5:41:20 PM	MAM
Surr: Terphenyl-d14		53.1-120		**104**	%REC	1	4/4/2006 5:41:20 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	20.0		**875**	µg/L	10	4/1/2006 3:43:00 AM	GEK
Ethylbenzene	NELAP	50.0		**1220**	µg/L	10	4/1/2006 3:43:00 AM	GEK
Naphthalene	NELAP	2000		**5160**	µg/L	200	3/31/2006 8:27:00 PM	GEK
Toluene	NELAP	50.0		**123**	µg/L	10	4/1/2006 3:43:00 AM	GEK
Xylenes, Total	NELAP	50.0		**958**	µg/L	10	4/1/2006 3:43:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**109**	%REC	10	4/1/2006 3:43:00 AM	GEK
Surr: 4-Bromofluorobenzene		83-113		**96.6**	%REC	10	4/1/2006 3:43:00 AM	GEK
Surr: Dibromofluoromethane		83.8-118		**101**	%REC	10	4/1/2006 3:43:00 AM	GEK
Surr: Toluene-d8		85.5-115		**99.4**	%REC	10	4/1/2006 3:43:00 AM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06030912
Lab ID: 06030912-009
Report Date: 06-Apr-06

Client Project: CHMGP/162363
Client Sample ID: 115061
Collection Date: 3/30/2006 1:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**2.7**	µg/L	1	3/31/2006 7:56:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 7:56:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/31/2006 7:56:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/31/2006 7:56:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/31/2006 7:56:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73 9-129		**110**	%REC	1	3/31/2006 7:56:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**98.9**	%REC	1	3/31/2006 7:56:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**105**	%REC	1	3/31/2006 7:56:00 PM	GEK
Surr: Toluene-d8		85.5-115		**98.1**	%REC	1	3/31/2006 7:56:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06030912
Lab ID: 06030912-010
Report Date: 06-Apr-06

Client Project: CHMGP/162363
Client Sample ID: Trip Blank
Collection Date: 2/20/2006 12:10:00 PM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0	H	**ND**	µg/L	1	3/31/2006 11:49:00 AM	GEK
Ethylbenzene	NELAP	5.0	H	**ND**	µg/L	1	3/31/2006 11:49:00 AM	GEK
Naphthalene	NELAP	10	H	**ND**	µg/L	1	3/31/2006 11:49:00 AM	GEK
Toluene	NELAP	5.0	H	**ND**	µg/L	1	3/31/2006 11:49:00 AM	GEK
Xylenes, Total	NELAP	5.0	H	**ND**	µg/L	1	3/31/2006 11:49:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129	H	**99.4**	%REC	1	3/31/2006 11:49:00 AM	GEK
Surr: 4-Bromofluorobenzene		83-113	H	**106**	%REC	1	3/31/2006 11:49:00 AM	GEK
Surr: Dibromofluoromethane		83.8-118	H	**101**	%REC	1	3/31/2006 11:49:00 AM	GEK
Surr: Toluene-d8		85.5-115	H	**96.7**	%REC	1	3/31/2006 11:49:00 AM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

June 29, 2006

Stu Cravens
Kelron Environmental
1213 Dorchester
Champaign, IL 61821
TEL: (217) 390-1503
FAX: (217) 355-1385

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: CHMGP/162363

OrderNo. 06060698

Dear Stu Cravens:

TEKLAB, INC received 10 samples on 6/23/2006 8:00:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations
618-344-1004 ex.16

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 06060698
Report Date: June 29, 2006

REPORT CONTENTS

This reporting package includes the following:

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 06060698
Report Date: June 29, 2006

CASE NARRATIVE

Cooler Receipt Temp 4.2 °C

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	**X** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	112062
Lab ID:	06060698-001	**Collection Date:**	6/22/2006 7:50:00 AM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/25/2006 1:08:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 1:08:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/25/2006 1:08:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 1:08:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/25/2006 1:08:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**119**	%REC	1	6/25/2006 1:08:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**102**	%REC	1	6/25/2006 1:08:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**110**	%REC	1	6/25/2006 1:08:00 PM	GEK
Surr: Toluene-d8		85.5-115		**101**	%REC	1	6/25/2006 1:08:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	102062
Lab ID:	06060698-002	**Collection Date:**	6/22/2006 8:20:00 AM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/25/2006 2:09:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 2:09:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/25/2006 2:09:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 2:09:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/25/2006 2:09:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**116**	%REC	1	6/25/2006 2:09:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**101**	%REC	1	6/25/2006 2:09:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**106**	%REC	1	6/25/2006 2:09:00 PM	GEK
Surr: Toluene-d8		85.5-115		**96.7**	%REC	1	6/25/2006 2:09:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	111062
Lab ID:	06060698-003	**Collection Date:**	6/22/2006 8:55:00 AM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/25/2006 2:40:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 2:40:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/25/2006 2:40:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 2:40:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/25/2006 2:40:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**117**	%REC	1	6/25/2006 2:40:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**101**	%REC	1	6/25/2006 2:40:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**110**	%REC	1	6/25/2006 2:40:00 PM	GEK
Surr: Toluene-d8		85.5-115		**97.2**	%REC	1	6/25/2006 2:40:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	111962
Lab ID:	06060698-004	**Collection Date:**	6/22/2006 8:57:00 AM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/25/2006 3:10:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 3:10:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/25/2006 3:10:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 3:10:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/25/2006 3:10:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**121**	%REC	1	6/25/2006 3:10:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**104**	%REC	1	6/25/2006 3:10:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**109**	%REC	1	6/25/2006 3:10:00 PM	GEK
Surr: Toluene-d8		85.5-115		**99.8**	%REC	1	6/25/2006 3:10:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	108062
Lab ID:	06060698-005	**Collection Date:**	6/22/2006 9:19:00 AM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/25/2006 3:41:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 3:41:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/25/2006 3:41:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 3:41:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/25/2006 3:41:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73 9-129		**125**	%REC	1	6/25/2006 3:41:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**105**	%REC	1	6/25/2006 3:41:00 PM	GEK
Surr: Dibromofluoromethane		83 8-118		**113**	%REC	1	6/25/2006 3:41:00 PM	GEK
Surr: Toluene-d8		85 5-115		**102**	%REC	1	6/25/2006 3:41:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	116062
Lab ID:	06060698-006	**Collection Date:**	6/22/2006 10:26:00 AM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	6/25/2006 4:11:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 4:11:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/25/2006 4:11:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 4:11:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	6/25/2006 4:11:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**127**	%REC	1	6/25/2006 4:11:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**104**	%REC	1	6/25/2006 4:11:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**114**	%REC	1	6/25/2006 4:11:00 PM	GEK
Surr: Toluene-d8		85.5-115		**102**	%REC	1	6/25/2006 4:11:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	107062
Lab ID:	06060698-007	**Collection Date:**	6/22/2006 10:58:00 AM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Acenaphthylene	NELAP	0.00150		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Anthracene	NELAP	0.00030		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Benzo(a)anthracene	NELAP	0 00009		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Benzo(k)fluoranthene	NELAP	0 00015		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Chrysene	NELAP	0.00045		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Fluorene	NELAP	0.00030		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Pyrene	NELAP	0.00030		**ND**	mg/L	1	6/24/2006 6:18:24 AM	MAM
Surr: Terphenyl-d14		53.1-120		**82.9**	%REC	1	6/24/2006 6:18:24 AM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	10		**289**	µg/L	5	6/25/2006 5:43:00 PM	GEK
Ethylbenzene	NELAP	5.0		**18.2**	µg/L	1	6/25/2006 7:45:00 PM	GEK
Naphthalene	NELAP	10		**106**	µg/L	1	6/25/2006 7:45:00 PM	GEK
Toluene	NELAP	5.0	J	**2.4**	µg/L	1	6/25/2006 7:45:00 PM	GEK
Xylenes, Total	NELAP	5.0		**30.7**	µg/L	1	6/25/2006 7:45:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73 9-129		**113**	%REC	1	6/25/2006 7:45:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**101**	%REC	1	6/25/2006 7:45:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**107**	%REC	1	6/25/2006 7:45:00 PM	GEK
Surr: Toluene-d8		85.5-115		**96.5**	%REC	1	6/25/2006 7:45:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	114062
Lab ID:	06060698-008	**Collection Date:**	6/22/2006 12:02:00 PM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.0750		**0.159**	mg/L	25	6/27/2006 3:03:17 PM	MAM
Acenaphthylene	NELAP	0.375		**0.868**	mg/L	250	6/26/2006 4:36:48 PM	MAM
Anthracene	NELAP	0.00030		**0.00180**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Benzo(a)anthracene	NELAP	0.00009		**0.00091**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Benzo(a)pyrene	NELAP	0.00012		**0.00097**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		**0.00030**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		**0.00068**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Chrysene	NELAP	0.00045		**0.00093**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Fluoranthene	NELAP	0.00090		**0.00338**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Fluorene	NELAP	0.00750		**0.0428**	mg/L	25	6/27/2006 3:03:17 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**0.00030**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Phenanthrene	NELAP	0.00060		**0.0140**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Pyrene	NELAP	0.00030		**0.00274**	mg/L	1	6/24/2006 7:10:52 AM	MAM
Surr: Terphenyl-d14		53.1-120		**99.6**	%REC	1	6/24/2006 7:10:52 AM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	20.0		**936**	µg/L	10	6/25/2006 9:47:00 PM	GEK
Ethylbenzene	NELAP	50.0		**1140**	µg/L	10	6/25/2006 9:47:00 PM	GEK
Naphthalene	NELAP	2000		**7510**	µg/L	200	6/25/2006 9:17:00 PM	GEK
Toluene	NELAP	50.0		**131**	µg/L	10	6/25/2006 9:47:00 PM	GEK
Xylenes, Total	NELAP	50.0		**1020**	µg/L	10	6/25/2006 9:47:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**118**	%REC	10	6/25/2006 9:47:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**97.9**	%REC	10	6/25/2006 9:47:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**108**	%REC	10	6/25/2006 9:47:00 PM	GEK
Surr: Toluene-d8		85.5-115		**99.0**	%REC	10	6/25/2006 9:47:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	115062
Lab ID:	06060698-009	**Collection Date:**	6/22/2006 1:01:00 PM
Report Date:	29-Jun-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**11.7**	µg/L	1	6/25/2006 5:12:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	6/25/2006 5:12:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	6/25/2006 5:12:00 PM	GEK
Toluene	NELAP	5.0	J	**1.4**	µg/L	1	6/25/2006 5:12:00 PM	GEK
Xylenes, Total	NELAP	5.0	J	**1.0**	µg/L	1	6/25/2006 5:12:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129		**119**	%REC	1	6/25/2006 5:12:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113		**99.0**	%REC	1	6/25/2006 5:12:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118		**108**	%REC	1	6/25/2006 5:12:00 PM	GEK
Surr: Toluene-d8		85.5-115		**100**	%REC	1	6/25/2006 5:12:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06060698	**Client Sample ID**	Trip Blank
Lab ID:	06060698-010	**Collection Date:**	6/5/2006
Report Date:	29-Jun-06	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0	H	**ND**	µg/L	1	6/25/2006 12:38:00 PM	GEK
Ethylbenzene	NELAP	5.0	H	**ND**	µg/L	1	6/25/2006 12:38:00 PM	GEK
Naphthalene	NELAP	10	H	**ND**	µg/L	1	6/25/2006 12:38:00 PM	GEK
Toluene	NELAP	5.0	H	**ND**	µg/L	1	6/25/2006 12:38:00 PM	GEK
Xylenes, Total	NELAP	5.0	H	**ND**	µg/L	1	6/25/2006 12:38:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		73.9-129	H	**118**	%REC	1	6/25/2006 12:38:00 PM	GEK
Surr: 4-Bromofluorobenzene		83-113	H	**103**	%REC	1	6/25/2006 12:38:00 PM	GEK
Surr: Dibromofluoromethane		83.8-118	H	**111**	%REC	1	6/25/2006 12:38:00 PM	GEK
Surr: Toluene-d8		85.5-115	H	**98.9**	%REC	1	6/25/2006 12:38:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
Lab Order: 06060698
Date Received: 6/23/2006 8:00:00 AM

DATES REPORT

Date: *29-Jun-06*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
06060698-001A	112062	6/22/2006	Aqueous	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-002A	102062			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-003A	111062			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-004A	111962			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-005A	108062			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-006A	116062			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-007A	107062			SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		6/23/2006	6/26/2006
				SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		6/23/2006	6/24/2006
06060698-007B				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-008A	114062			SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		6/23/2006	6/27/2006
				SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		6/23/2006	6/24/2006
				SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		6/23/2006	6/26/2006
				SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		6/23/2006	6/27/2006
06060698-008B				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-009A	115062			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006
06060698-010A	Trip Blank	6/5/2006	Trip Blank	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		6/25/2006	6/25/2006

CLIENT: Kelron Environmental
Work Order: 06060698
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-31925** SampType: **MBLK** Units: **mg/L** Prep Date: **6/23/2006** RunNo: **80483**
Client ID: **ZZZZZZ** Batch ID: **31925** **SW3510C** Analysis Date: **6/23/2006** SeqNo: **1316711**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.00300									
Acenaphthylene	ND	0.00150									
Anthracene	ND	0.00030									
Benzo(a)anthracene	ND	0.00009									
Benzo(a)pyrene	ND	0.00012									
Benzo(b)fluoranthene	ND	0.00015									
Benzo(g,h,i)perylene	ND	0.00030									
Benzo(k)fluoranthene	ND	0.00015									
Chrysene	ND	0.00045									
Dibenzo(a,h)anthracene	ND	0.00018									
Fluoranthene	ND	0.00090									
Fluorene	ND	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.00030									
Naphthalene	ND	0.00300									
Phenanthrene	ND	0.00060									
Pyrene	ND	0.00030									
Surr: Terphenyl-d14	0.00700		0.01000		70.0	59.9	111				

Sample ID: **LCS-31925** SampType: **LCS** Units: **mg/L** Prep Date: **6/23/2006** RunNo: **80483**
Client ID: **ZZZZZZ** Batch ID: **31925** **SW3510C** Analysis Date: **6/23/2006** SeqNo: **1316712**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00877	0.00300	0.01000	0	87.7	52.4	95				
Acenaphthylene	0.00848	0.00150	0.01000	0	84.8	44.3	97.4				
Anthracene	0.00983	0.00030	0.01000	0	98.3	59.1	108				
Benzo(a)anthracene	0.00981	0.00009	0.01000	0	98.1	61.7	109				
Benzo(a)pyrene	0.0100	0.00012	0.01000	0	100	53.7	119				
Benzo(b)fluoranthene	0.00981	0.00015	0.01000	0	98.1	60.3	107				
Benzo(g,h,i)perylene	0.00993	0.00030	0.01000	0	99.3	59.4	115				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation li
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06060698
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCS-31925**	SampType: **LCS**			Units: **mg/L**		Prep Date: **6/23/2006**		RunNo: **80483**		
Client ID: **ZZZZZZ**	Batch ID: **31925**			**SW3510C**		Analysis Date: **6/23/2006**		SeqNo: **1316712**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.00982	0.00015	0.01000	0	98.2	62.6	109				
Chrysene	0.00997	0.00045	0.01000	0	99.7	60.3	110				
Dibenzo(a,h)anthracene	0.00929	0.00018	0.01000	0	92.9	61	108				
Fluoranthene	0.00973	0.00090	0.01000	0	97.3	59.3	108				
Fluorene	0.00915	0.00030	0.01000	0	91.5	44.8	103				
Indeno(1,2,3-cd)pyrene	0.00979	0.00030	0.01000	0	97.9	61	112				
Naphthalene	0.00814	0.00300	0.01000	0	81.4	45.6	91.9				
Phenanthrene	0.00983	0.00060	0.01000	0	98.3	55.8	110				
Pyrene	0.00982	0.00030	0.01000	0	98.2	50.7	109				
Surr: Terphenyl-d14	0.00928		0.01000		92.8	59.9	111				

Sample ID: **LCSD-31925**	SampType: **LCSD**			Units: **mg/L**		Prep Date: **6/23/2006**		RunNo: **80483**		
Client ID: **ZZZZZZ**	Batch ID: **31925**			**SW3510C**		Analysis Date: **6/23/2006**		SeqNo: **1316713**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00901	0.00300	0.01000	0	90.1	52.4	95	0.008765	2.81	26.2	
Acenaphthylene	0.00899	0.00150	0.01000	0	89.9	44.3	97.4	0.008479	5.80	25.7	
Anthracene	0.0104	0.00030	0.01000	0	104	59.1	108	0.009829	5.23	18.2	
Benzo(a)anthracene	0.0105	0.00009	0.01000	0	105	61.7	109	0.009807	6.82	15	
Benzo(a)pyrene	0.0107	0.00012	0.01000	0	107	53.7	119	0.01003	6.79	15.1	
Benzo(b)fluoranthene	0.0105	0.00015	0.01000	0	105	60.3	107	0.009814	7.10	15.8	
Benzo(g,h,i)perylene	0.0105	0.00030	0.01000	0	105	59.4	115	0.009934	5.90	16.4	
Benzo(k)fluoranthene	0.0105	0.00015	0.01000	0	105	62.6	109	0.009817	7.20	15.2	
Chrysene	0.0107	0.00045	0.01000	0	107	60.3	110	0.009974	6.95	15.9	
Dibenzo(a,h)anthracene	0.0103	0.00018	0.01000	0	103	61	108	0.009287	9.94	16.3	
Fluoranthene	0.0105	0.00090	0.01000	0	105	59.3	108	0.009727	7.90	16.8	
Fluorene	0.00982	0.00030	0.01000	0	98.2	44.8	103	0.009149	7.08	27.5	
Indeno(1,2,3-cd)pyrene	0.0105	0.00030	0.01000	0	105	61	112	0.009793	7.01	15.8	
Naphthalene	0.00839	0.00300	0.01000	0	83.9	45.6	91.9	0.008138	3.08	25	
Phenanthrene	0.0104	0.00060	0.01000	0	104	55.8	110	0.009828	6.08	23.2	
Pyrene	0.0106	0.00030	0.01000	0	106	50.7	109	0.009818	8.02	16.7	

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation li
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06060698
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: LCSD-31925	SampType: LCSD			Units: mg/L		Prep Date: 6/23/2006			RunNo: 80483		
Client ID: ZZZZZZ	Batch ID: 31925			SW3510C		Analysis Date: 6/23/2006			SeqNo: 1316713		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	0.0102		0.01000		102	59.9	111		0	20	

Sample ID: 06060698-007AMS	SampType: MS			Units: mg/L		Prep Date: 6/23/2006			RunNo: 80483		
Client ID: 107062MS	Batch ID: 31925			SW3510C		Analysis Date: 6/24/2006			SeqNo: 1316748		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00830	0.00300	0.01000	0	83.0	17.5	116				
Acenaphthylene	0.00800	0.00150	0.01000	0	80.0	18.7	140				
Anthracene	0.00893	0.00030	0.01000	0	89.3	55.5	111				
Benzo(a)anthracene	0.00849	0.00009	0.01000	0	84.9	52	115				
Benzo(a)pyrene	0.00901	0.00012	0.01000	0	90.1	46.8	122				
Benzo(b)fluoranthene	0.00851	0.00015	0.01000	0	85.1	52.6	112				
Benzo(g,h,i)perylene	0.00871	0.00030	0.01000	0	87.1	52.7	116				
Benzo(k)fluoranthene	0.00854	0.00015	0.01000	0	85.4	51.1	118				
Chrysene	0.00875	0.00045	0.01000	0	87.5	52.1	113				
Dibenzo(a,h)anthracene	0.00836	0.00018	0.01000	0	83.6	53.6	110				
Fluoranthene	0.00845	0.00090	0.01000	0	84.5	45.5	117				
Fluorene	0.00814	0.00030	0.01000	0	81.4	31.7	104				
Indeno(1,2,3-cd)pyrene	0.00849	0.00030	0.01000	0	84.9	52.1	117				
Phenanthrene	0.00869	0.00060	0.01000	0	86.9	47.3	120				
Pyrene	0.00847	0.00030	0.01000	0	84.7	51.2	108				
Surr: Terphenyl-d14	0.00874		0.01000		87.4	53.1	120				

Sample ID: 06060698-007AMSD	SampType: MSD			Units: mg/L		Prep Date: 6/23/2006			RunNo: 80483		
Client ID: 107062MSD	Batch ID: 31925			SW3510C		Analysis Date: 6/24/2006			SeqNo: 1316749		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00755	0.00300	0.01000	0	75.5	17.5	116	0.008301	9.48	40	
Acenaphthylene	0.00919	0.00150	0.01000	0	91.9	18.7	140	0.008002	13.9	40	
Anthracene	0.00908	0.00030	0.01000	0	90.8	55.5	111	0.008926	1.70	40	
Benzo(a)anthracene	0.00848	0.00009	0.01000	0	84.8	52	115	0.008489	0.100	40	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation li
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06060698
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **06060698-007AMSD** SampType: **MSD** Units: **mg/L** Prep Date: **6/23/2006** RunNo: **80483**
Client ID: **107062MSD** Batch ID: **31925** **SW3510C** Analysis Date: **6/24/2006** SeqNo: **1316749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.00891	0.00012	0.01000	0	89.1	46.8	122	0.009008	1.11	40	
Benzo(b)fluoranthene	0.00848	0.00015	0.01000	0	84.8	52.6	112	0.008505	0.274	40	
Benzo(g,h,i)perylene	0.00815	0.00030	0.01000	0	81.5	52.7	116	0.008714	6.74	40	
Benzo(k)fluoranthene	0.00853	0.00015	0.01000	0	85.3	51.1	118	0.008536	0.0961	40	
Chrysene	0.00879	0.00045	0.01000	0	87.9	52.1	113	0.008753	0.412	40	
Dibenzo(a,h)anthracene	0.00826	0.00018	0.01000	0	82.6	53.6	110	0.008365	1.32	40	
Fluoranthene	0.00839	0.00090	0.01000	0	83.9	45.5	117	0.008449	0.654	40	
Fluorene	0.00839	0.00030	0.01000	0	83.9	31.7	104	0.008138	3.10	40	
Indeno(1,2,3-cd)pyrene	0.00815	0.00030	0.01000	0	81.5	52.1	117	0.008490	4.08	40	
Phenanthrene	0.00870	0.00060	0.01000	0	87.0	47.3	120	0.008692	0.0874	40	
Pyrene	0.00844	0.00030	0.01000	0	84.4	51.2	108	0.008467	0.328	40	
Surr: Terphenyl-d14	0.00894		0.01000		89.4	53.1	120		0	40	

Sample ID: **06060698-007AMS** SampType: **MS** Units: **mg/L** Prep Date: **6/23/2006** RunNo: **80519**
Client ID: **107062MS** Batch ID: **31925** **SW3510C** Analysis Date: **6/26/2006** SeqNo: **1317801**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.0535	0.0150	0.01000	0.04938	41.2	24.5	115				

Sample ID: **06060698-007AMSD** SampType: **MSD** Units: **mg/L** Prep Date: **6/23/2006** RunNo: **80519**
Client ID: **107062MSD** Batch ID: **31925** **SW3510C** Analysis Date: **6/26/2006** SeqNo: **1317802**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.0557	0.0150	0.01000	0.04938	63.4	24.5	115	0.05350	4.07	40	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation li
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06060698
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **MBLK-N060625-1**	SampType: **MBLK**	Units: **µg/L**	Prep Date: **6/25/2006**	RunNo: **80439**
Client ID: **ZZZZZZ**	Batch ID: **31973**	**SW5030**	Analysis Date: **6/25/2006**	SeqNo: **1315837**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Naphthalene	ND	10									
Surr: 1,2-Dichloroethane-d4	56.7		50.00		113	73.9	129				
Surr: 4-Bromofluorobenzene	51.9		50.00		104	83	113				
Surr: Dibromofluoromethane	53.9		50.00		108	83.8	118				
Surr: Toluene-d8	50.0		50.00		99.9	85.5	115				

Sample ID: **06060698-007BMS**	SampType: **MS**	Units: **µg/L**	Prep Date: **6/25/2006**	RunNo: **80439**
Client ID: **107062MS**	Batch ID: **31973**	**SW5030**	Analysis Date: **6/25/2006**	SeqNo: **1315847**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	556	10	325.0	289.0	82.2	57.8	125				

Sample ID: **06060698-007BMSD**	SampType: **MSD**	Units: **µg/L**	Prep Date: **6/25/2006**	RunNo: **80439**
Client ID: **107062MSD**	Batch ID: **31973**	**SW5030**	Analysis Date: **6/25/2006**	SeqNo: **1315848**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	544	10	325.0	289.0	78.5	57.8	125	556.2	2.20	15	

Sample ID: **06060698-007BMS**	SampType: **MS**	Units: **µg/L**	Prep Date: **6/25/2006**	RunNo: **80439**
Client ID: **107062MS**	Batch ID: **31973**	**SW5030**	Analysis Date: **6/25/2006**	SeqNo: **1315855**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	64.1	5.0	65.00	2.440	94.9	75.8	123				
Ethylbenzene	82.6	5.0	65.00	18.20	99.2	72.8	123				
Xylenes, Total	173	5.0	130.0	30.68	110	73	127				
Naphthalene	102	10	0	106.3	0	0	0				

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation li
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06060698
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **06060698-007BMS**	SampType: **MS**			Units: **µg/L**		Prep Date: **6/25/2006**		RunNo: **80439**		
Client ID: **107062MS**	Batch ID: **31973**			**SW5030**		Analysis Date: **6/25/2006**		SeqNo: **1315855**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	55.4		50.00		111	73.9	129				
Surr: 4-Bromofluorobenzene	50.7		50.00		101	83	113				
Surr: Dibromofluoromethane	52.2		50.00		104	83.8	118				
Surr: Toluene-d8	50.7		50.00		101	85.5	115				

Sample ID: **06060698-007BMSD**	SampType: **MSD**			Units: **µg/L**		Prep Date: **6/25/2006**		RunNo: **80439**		
Client ID: **107062MSD**	Batch ID: **31973**			**SW5030**		Analysis Date: **6/25/2006**		SeqNo: **1315856**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	62.4	5.0	65.00	2.440	92.3	75.8	123	64.11	2.69	15	
Ethylbenzene	83.6	5.0	65.00	18.20	101	72.8	123	82.65	1.19	15	
Xylenes, Total	175	5.0	130.0	30.68	111	73	127	173.2	1.19	15	
Naphthalene	102	10	0	106.3	0	0	0	101.6	0.0492	0	
Surr: 1,2-Dichloroethane-d4	56.2		50.00		112	73.9	129		0	0	
Surr: 4-Bromofluorobenzene	50.3		50.00		101	83	113		0	0	
Surr: Dibromofluoromethane	52.9		50.00		106	83.8	118		0	0	
Surr: Toluene-d8	50.0		50.00		99.9	85.5	115		0	0	

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation li
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

WORK ORDER SAMPLE SUMMARY

Client: Kelron Environmental
Project: CHMGP/162363
Lab Order: 06060698
Date Received: 6/23/2006

Date: *29-Jun-06*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
06060698-001A	112062		6/22/2006 7:50:00 AM
06060698-002A	102062		6/22/2006 8:20:00 AM
06060698-003A	111062		6/22/2006 8:55:00 AM
06060698-004A	111962		6/22/2006 8:57:00 AM
06060698-005A	108062		6/22/2006 9:19:00 AM
06060698-006A	116062		6/22/2006 10:26:00 AM
06060698-007A	107062		6/22/2006 10:58:00 AM
06060698-007B	107062		6/22/2006 10:58:00 AM
06060698-008A	114062		6/22/2006 12:02:00 PM
06060698-008B	114062		6/22/2006 12:02:00 PM
06060698-009A	115062		6/22/2006 1:01:00 PM
06060698-010A	Trip Blank		6/5/2006

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

September 27, 2006

Stu Cravens
Kelron Environmental
1213 Dorchester
Champaign, IL 61821
TEL: (217) 390-1503
FAX: (217) 355-1385

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: CHMGP/162363

OrderNo. 06090621

Dear Stu Cravens:

TEKLAB, INC received 10 samples on 9/21/2006 8:25:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations
618-344-1004 ex.16

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 06090621
Report Date: September 27, 2006

REPORT CONTENTS

This reporting package includes the following:

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 06090621
Report Date: September 27, 2006

CASE NARRATIVE

Cooler Receipt Temp 0.8 °C

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	**X** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	112063
Lab ID:	06090621-001	**Collection Date:**	9/19/2006 8:23:00 AM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/21/2006 5:56:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 5:56:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	9/21/2006 5:56:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 5:56:00 PM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/21/2006 5:56:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**91.7**	%REC	1	9/21/2006 5:56:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**103.7**	%REC	1	9/21/2006 5:56:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**99.5**	%REC	1	9/21/2006 5:56:00 PM	TAL
Surr: Toluene-d8		85.5-115		**96.5**	%REC	1	9/21/2006 5:56:00 PM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	112963
Lab ID:	06090621-002	**Collection Date:**	9/19/2006 8:25:00 AM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/21/2006 6:27:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 6:27:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	9/21/2006 6:27:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 6:27:00 PM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/21/2006 6:27:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**93.9**	%REC	1	9/21/2006 6:27:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**102.8**	%REC	1	9/21/2006 6:27:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**102.3**	%REC	1	9/21/2006 6:27:00 PM	TAL
Surr: Toluene-d8		85.5-115		**97.3**	%REC	1	9/21/2006 6:27:00 PM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	102063
Lab ID:	06090621-003	**Collection Date:**	9/19/2006 9:18:00 AM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/21/2006 6:57:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 6:57:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	9/21/2006 6:57:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 6:57:00 PM	TAL
Xylenes, Total	NELAP	5.0	J	**1.1**	µg/L	1	9/21/2006 6:57:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**92.7**	%REC	1	9/21/2006 6:57:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**105.0**	%REC	1	9/21/2006 6:57:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**102.0**	%REC	1	9/21/2006 6:57:00 PM	TAL
Surr: Toluene-d8		85.5-115		**96.3**	%REC	1	9/21/2006 6:57:00 PM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	111063
Lab ID:	06090621-004	**Collection Date:**	9/19/2006 9:52:00 AM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/21/2006 7:28:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 7:28:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	9/21/2006 7:28:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 7:28:00 PM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/21/2006 7:28:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**93.6**	%REC	1	9/21/2006 7:28:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**104.2**	%REC	1	9/21/2006 7:28:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**102.0**	%REC	1	9/21/2006 7:28:00 PM	TAL
Surr: Toluene-d8		85.5-115		**96.2**	%REC	1	9/21/2006 7:28:00 PM	TAL

Sample Narrative

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	108063
Lab ID:	06090621-005	**Collection Date:**	9/19/2006 10:18:00 AM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/21/2006 7:59:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 7:59:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	9/21/2006 7:59:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 7:59:00 PM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/21/2006 7:59:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**92.0**	%REC	1	9/21/2006 7:59:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**105.1**	%REC	1	9/21/2006 7:59:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**101.1**	%REC	1	9/21/2006 7:59:00 PM	TAL
Surr: Toluene-d8		85.5-115		**96.7**	%REC	1	9/21/2006 7:59:00 PM	TAL

Sample Narrative

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	116063
Lab ID:	06090621-006	**Collection Date:**	9/19/2006 11:00:00 AM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/21/2006 8:29:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 8:29:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	9/21/2006 8:29:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 8:29:00 PM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/21/2006 8:29:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**93.4**	%REC	1	9/21/2006 8:29:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**110.8**	%REC	1	9/21/2006 8:29:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**102.8**	%REC	1	9/21/2006 8:29:00 PM	TAL
Surr: Toluene-d8		85.5-115		**98.0**	%REC	1	9/21/2006 8:29:00 PM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	107063
Lab ID:	06090621-007	**Collection Date:**	9/19/2006 11:21:00 AM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.00300		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Acenaphthylene	NELAP	0.00150		**0.00538**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Anthracene	NELAP	0.00030		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Chrysene	NELAP	0.00045		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Fluorene	NELAP	0.00030		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Naphthalene	NELAP	0.0750	S	**0.180**	mg/L	25	9/25/2006 3:24:04 PM	MAM
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Pyrene	NELAP	0.00030		**ND**	mg/L	1	9/22/2006 2:42:39 PM	MAM
Surr: Terphenyl-d14		53.1-120		**77.1**	%REC	1	9/22/2006 2:42:39 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	20.0		**1280**	µg/L	10	9/21/2006 9:30:00 PM	TAL
Ethylbenzene	NELAP	50.0		**69.1**	µg/L	10	9/21/2006 9:30:00 PM	TAL
Naphthalene	NELAP	100		**243**	µg/L	10	9/21/2006 9:30:00 PM	TAL
Toluene	NELAP	50.0	J	**11**	µg/L	10	9/21/2006 9:30:00 PM	TAL
Xylenes, Total	NELAP	50.0		**81.2**	µg/L	10	9/21/2006 9:30:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**91.3**	%REC	10	9/21/2006 9:30:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**103.7**	%REC	10	9/21/2006 9:30:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**101.9**	%REC	10	9/21/2006 9:30:00 PM	TAL
Surr: Toluene-d8		85.5-115		**96.7**	%REC	10	9/21/2006 9:30:00 PM	TAL

Sample Narrative

SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC

Matrix spike was diluted out

SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	114063
Lab ID:	06090621-008	**Collection Date:**	9/19/2006 1:15:00 PM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC								
Acenaphthene	NELAP	0.0300		**0.111**	mg/L	10	9/25/2006 4:33:55 PM	MAM
Acenaphthylene	NELAP	0.0150		**ND**	mg/L	10	9/25/2006 4:33:55 PM	MAM
Anthracene	NELAP	0 00030		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Benzo(a)anthracene	NELAP	0.00009		**0.00020**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Benzo(a)pyrene	NELAP	0.00012		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Benzo(b)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.00030		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Benzo(k)fluoranthene	NELAP	0.00015		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Chrysene	NELAP	0.00045		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.00018		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Fluoranthene	NELAP	0.00090		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Fluorene	NELAP	0.00030		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Naphthalene	NELAP	3.00		**7.88**	mg/L	1000	9/26/2006 10:35:49 AM	MAM
Phenanthrene	NELAP	0.00060		**0.0111**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Pyrene	NELAP	0.00030		**0.00055**	mg/L	1	9/22/2006 3:35:02 PM	MAM
Surr: Terphenyl-d14		53.1-120		**88.2**	%REC	1	9/22/2006 3:35:02 PM	MAM
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	100		**938**	µg/L	50	9/21/2006 11:02:00 PM	TAL
Ethylbenzene	NELAP	250		**1220**	µg/L	50	9/21/2006 11:02:00 PM	TAL
Naphthalene	NELAP	500		**6280**	µg/L	50	9/21/2006 11:02:00 PM	TAL
Toluene	NELAP	250	J	**150**	µg/L	50	9/21/2006 11:02:00 PM	TAL
Xylenes, Total	NELAP	250		**924**	µg/L	50	9/21/2006 11:02:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**89.4**	%REC	50	9/21/2006 11:02:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**105.4**	%REC	50	9/21/2006 11:02:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**100.9**	%REC	50	9/21/2006 11:02:00 PM	TAL
Surr: Toluene-d8		85.5-115		**96.2**	%REC	50	9/21/2006 11:02:00 PM	TAL

Sample Narrative

SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

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FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	115063
Lab ID:	06090621-009	**Collection Date:**	9/19/2006 1:53:00 PM
Report Date:	27-Sep-06	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**7.0**	µg/L	1	9/21/2006 9:00:00 PM	TAL
Ethylbenzene	NELAP	5.0	J	**1.4**	µg/L	1	9/21/2006 9:00:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	9/21/2006 9:00:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 9:00:00 PM	TAL
Xylenes, Total	NELAP	5.0	J	**1.2**	µg/L	1	9/21/2006 9:00:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**94.4**	%REC	1	9/21/2006 9:00:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**104.8**	%REC	1	9/21/2006 9:00:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**100.9**	%REC	1	9/21/2006 9:00:00 PM	TAL
Surr: Toluene-d8		85.5-115		**97.4**	%REC	1	9/21/2006 9:00:00 PM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06090621	**Client Sample ID**	Trip Blank
Lab ID:	06090621-010	**Collection Date:**	9/19/2006 8:10:00 AM
Report Date:	27-Sep-06	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	9/21/2006 5:26:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 5:26:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	9/21/2006 5:26:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	9/21/2006 5:26:00 PM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	9/21/2006 5:26:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**91.3**	%REC	1	9/21/2006 5:26:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**108.0**	%REC	1	9/21/2006 5:26:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**101.2**	%REC	1	9/21/2006 5:26:00 PM	TAL
Surr: Toluene-d8		85.5-115		**94.4**	%REC	1	9/21/2006 5:26:00 PM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Client: Kelron Environmental
Project: CHMGP/162363
Lab Order: 06090621
Date Received: 9/21/2006 8:25:00 AM

DATES REPORT

Date: *27-Sep-06*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
06090621-001A	112063	9/19/2006	Groundwater	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-002A	112963			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-003A	102063			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-004A	111063			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-005A	108063			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-006A	116063			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-007A	107063			SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		9/20/2006	9/25/2006
				SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		9/20/2006	9/22/2006
06090621-007B				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-008A	114063			SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		9/20/2006	9/26/2006
				SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		9/20/2006	9/22/2006
				SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		9/20/2006	9/25/2006
				SW-846 3510C, 8310, PolyNuclear Aromatic Hydrocarbons by HPLC		9/20/2006	9/25/2006
06090621-008B				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-009A	115063			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006
06090621-010A	Trip Blank		Trip Blank	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		9/21/2006	9/21/2006

CLIENT: Kelron Environmental
Work Order: 06090621
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-33509** SampType: **MBLK** Units: **mg/L** Prep Date: **9/20/2006** RunNo: **84023**
Client ID: **ZZZZZZ** Batch ID: **33509** **SW3510C** Analysis Date: **9/21/2006** SeqNo: **1386978**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.00300									
Acenaphthylene	ND	0.00150									
Anthracene	ND	0.00030									
Benzo(a)anthracene	ND	0.00009									
Benzo(a)pyrene	ND	0.00012									
Benzo(b)fluoranthene	ND	0.00015									
Benzo(g,h,i)perylene	ND	0.00030									
Benzo(k)fluoranthene	ND	0.00015									
Chrysene	ND	0.00045									
Dibenzo(a,h)anthracene	ND	0.00018									
Fluoranthene	ND	0.00090									
Fluorene	ND	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.00030									
Naphthalene	ND	0.00300									
Phenanthrene	ND	0.00060									
Pyrene	ND	0.00030									
Surr: Terphenyl-d14	0.00768		0.01000		76.8	59.9	111				

Sample ID: **LCS-33509** SampType: **LCS** Units: **mg/L** Prep Date: **9/20/2006** RunNo: **84023**
Client ID: **ZZZZZZ** Batch ID: **33509** **SW3510C** Analysis Date: **9/21/2006** SeqNo: **1386979**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00823	0.00300	0.01000	0	82.3	52.4	95				
Acenaphthylene	0.00763	0.00150	0.01000	0	76.3	44.3	97.4				
Anthracene	0.00862	0.00030	0.01000	0	86.2	59.1	108				
Benzo(a)anthracene	0.00849	0.00009	0.01000	0	84.9	61.7	109				
Benzo(a)pyrene	0.00809	0.00012	0.01000	0	80.9	53.7	119				
Benzo(b)fluoranthene	0.00846	0.00015	0.01000	0	84.6	60.3	107				
Benzo(g,h,i)perylene	0.00825	0.00030	0.01000	0	82.5	59.4	115				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation li
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06090621
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCS-33509**	SampType: **LCS**			Units: **mg/L**		Prep Date: **9/20/2006**		RunNo: **84023**			
Client ID: **ZZZZZZ**	Batch ID: **33509**			**SW3510C**		Analysis Date: **9/21/2006**		SeqNo: **1386979**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.00844	0.00015	0.01000	0	84.4	62.6	109				
Chrysene	0.00867	0.00045	0.01000	0	86.7	60.3	110				
Dibenzo(a,h)anthracene	0.00850	0.00018	0.01000	0	85.0	61	108				
Fluoranthene	0.00863	0.00090	0.01000	0	86.3	59.3	108				
Fluorene	0.00789	0.00030	0.01000	0	78.9	44.8	103				
Indeno(1,2,3-cd)pyrene	0.00851	0.00030	0.01000	0	85.1	61	112				
Naphthalene	0.00742	0.00300	0.01000	0	74.2	45.6	91.9				
Phenanthrene	0.00852	0.00060	0.01000	0	85.2	55.8	110				
Pyrene	0.00867	0.00030	0.01000	0	86.7	50.7	109				
Surr: Terphenyl-d14	0.00801		0.01000		80.1	59.9	111				

Sample ID: **LCSD-33509**	SampType: **LCSD**			Units: **mg/L**		Prep Date: **9/20/2006**		RunNo: **84023**			
Client ID: **ZZZZZZ**	Batch ID: **33509**			**SW3510C**		Analysis Date: **9/21/2006**		SeqNo: **1386980**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00824	0.00300	0.01000	0	82.4	52.4	95				
Acenaphthylene	0.00773	0.00150	0.01000	0	77.3	44.3	97.4				
Anthracene	0.00851	0.00030	0.01000	0	85.1	59.1	108				
Benzo(a)anthracene	0.00842	0.00009	0.01000	0	84.2	61.7	109				
Benzo(a)pyrene	0.00786	0.00012	0.01000	0	78.7	53.7	119				
Benzo(b)fluoranthene	0.00833	0.00015	0.01000	0	83.3	60.3	107				
Benzo(g,h,i)perylene	0.00814	0.00030	0.01000	0	81.4	59.4	115				
Benzo(k)fluoranthene	0.00825	0.00015	0.01000	0	82.5	62.6	109				
Chrysene	0.00852	0.00045	0.01000	0	85.2	60.3	110				
Dibenzo(a,h)anthracene	0.00845	0.00018	0.01000	0	84.5	61	108				
Fluoranthene	0.00857	0.00090	0.01000	0	85.7	59.3	108				
Fluorene	0.00785	0.00030	0.01000	0	78.5	44.8	103				
Indeno(1,2,3-cd)pyrene	0.00839	0.00030	0.01000	0	83.9	61	112				
Naphthalene	0.00743	0.00300	0.01000	0	74.3	45.6	91.9				
Phenanthrene	0.00845	0.00060	0.01000	0	84.5	55.8	110				
Pyrene	0.00868	0.00030	0.01000	0	86.8	50.7	109				

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation li
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06090621
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCSD-33509**	SampType: **LCSD**			Units: **mg/L**		Prep Date: **9/20/2006**		RunNo: **84023**		
Client ID: **ZZZZZZ**	Batch ID: **33509**			**SW3510C**		Analysis Date: **9/21/2006**		SeqNo: **1386980**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	0.00796		0.01000		79.6	59.9	111				

Sample ID: **06090621-007AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **9/20/2006**		RunNo: **84095**		
Client ID: **107063MS**	Batch ID: **33509**			**SW3510C**		Analysis Date: **9/22/2006**		SeqNo: **1388756**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00805	0.00300	0.01000	0	80.5	17.5	116				
Acenaphthylene	0.0130	0.00150	0.01000	0.005382	76.3	18.7	140				
Anthracene	0.00805	0.00030	0.01000	0	80.5	55.5	111				
Benzo(a)anthracene	0.00778	0.00009	0.01000	0	77.8	52	115				
Benzo(a)pyrene	0.00767	0.00012	0.01000	0	76.7	46.8	122				
Benzo(b)fluoranthene	0.00776	0.00015	0.01000	0	77.6	52.6	112				
Benzo(g,h,i)perylene	0.00832	0.00030	0.01000	0	83.2	52.7	116				
Benzo(k)fluoranthene	0.00780	0.00015	0.01000	0	78.0	51.1	118				
Chrysene	0.00799	0.00045	0.01000	0	79.9	52.1	113				
Dibenzo(a,h)anthracene	0.00778	0.00018	0.01000	0	77.8	53.6	110				
Fluoranthene	0.00786	0.00090	0.01000	0	78.6	45.5	117				
Fluorene	0.00742	0.00030	0.01000	0	74.2	31.7	104				
Indeno(1,2,3-cd)pyrene	0.00804	0.00030	0.01000	0	80.4	52.1	117				
Phenanthrene	0.00790	0.00060	0.01000	0	79.0	47.3	120				
Pyrene	0.00781	0.00030	0.01000	0	78.1	51.2	108				
Surr: Terphenyl-d14	0.00821		0.01000		82.1	53.1	120				

Sample ID: **06090621-007AMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **9/20/2006**		RunNo: **84095**			
Client ID: **107063MSD**	Batch ID: **33509**			**SW3510C**		Analysis Date: **9/22/2006**		SeqNo: **1388757**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00710	0.00300	0.01000	0	71.0	17.5	116	0.008052	12.6	40	
Acenaphthylene	0.0103	0.00150	0.01000	0.005382	49.1	18.7	140	0.01301	23.3	40	
Anthracene	0.00757	0.00030	0.01000	0	75.7	55.5	111	0.008051	6.19	40	
Benzo(a)anthracene	0.00734	0.00009	0.01000	0	73.4	52	115	0.007785	5.91	40	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation li
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06090621
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **06090621-007AMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **9/20/2006**			RunNo: **84095**		
Client ID: **107063MSD**	Batch ID: **33509**			**SW3510C**		Analysis Date: **9/22/2006**			SeqNo: **1388757**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.00727	0.00012	0.01000	0	72.7	46.8	122	0.007674	5.38	40	
Benzo(b)fluoranthene	0.00733	0.00015	0.01000	0	73.3	52.6	112	0.007764	5.78	40	
Benzo(g,h,i)perylene	0.00750	0.00030	0.01000	0	75.0	52.7	116	0.008324	10.4	40	
Benzo(k)fluoranthene	0.00737	0.00015	0.01000	0	73.7	51.1	118	0.007800	5.65	40	
Chrysene	0.00753	0.00045	0.01000	0	75.3	52.1	113	0.007993	5.98	40	
Dibenzo(a,h)anthracene	0.00722	0.00018	0.01000	0	72.2	53.6	110	0.007784	7.45	40	
Fluoranthene	0.00940	0.00090	0.01000	0	94.0	45.5	117	0.007860	17.9	40	
Fluorene	0.00710	0.00030	0.01000	0	71.0	31.7	104	0.007424	4.53	40	
Indeno(1,2,3-cd)pyrene	0.00741	0.00030	0.01000	0	74.1	52.1	117	0.008044	8.18	40	
Phenanthrene	0.00742	0.00060	0.01000	0	74.2	47.3	120	0.007900	6.27	40	
Pyrene	0.00743	0.00030	0.01000	0	74.3	51.2	108	0.007812	5.07	40	
Surr: Terphenyl-d14	0.00768		0.01000		76.8	53.1	120		0	40	

Sample ID: **06090621-007AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **9/20/2006**			RunNo: **84172**		
Client ID: **107063MS**	Batch ID: **33509**			**SW3510C**		Analysis Date: **9/25/2006**			SeqNo: **1389598**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.181	0.0750	0.01000	0.1799	8.2	24.5	115				S

Sample ID: **06090621-007AMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **9/20/2006**			RunNo: **84172**		
Client ID: **107063MSD**	Batch ID: **33509**			**SW3510C**		Analysis Date: **9/25/2006**			SeqNo: **1389599**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.168	0.0750	0.01000	0.1799	-116.2	24.5	115	0.1807	7.13	40	S

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation li
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06090621
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-N060921-1** SampType: **LCS1** Units: **µg/L** Prep Date: **9/21/2006** RunNo: **84074**
Client ID: **ZZZZZZ** Batch ID: **33549** **SW5030** Analysis Date: **9/21/2006** SeqNo: **1387850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.1	2.0	50.00	0	94.3	79.3	122				
Toluene	49.6	5.0	50.00	0	99.2	81.5	123				
Ethylbenzene	51.7	5.0	50.00	0	103.4	83	131				
Xylenes, Total	101	5.0	100.0	0	100.9	83.2	131				
Naphthalene	46.7	10	50.00	0	93.4	78.5	140				
Surr: 1,2-Dichloroethane-d4	44.9		50.00		89.7	73.9	129				
Surr: 4-Bromofluorobenzene	52.5		50.00		105.0	83	113				
Surr: Dibromofluoromethane	49.9		50.00		99.8	83.8	118				
Surr: Toluene-d8	47.8		50.00		95.5	85.5	115				

Sample ID: **MBLK-N060921-1** SampType: **MBLK** Units: **µg/L** Prep Date: **9/21/2006** RunNo: **84074**
Client ID: **ZZZZZZ** Batch ID: **33549** **SW5030** Analysis Date: **9/21/2006** SeqNo: **1387852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Naphthalene	ND	10									
Surr: 1,2-Dichloroethane-d4	45.7		50.00		91.3	73.9	129				
Surr: 4-Bromofluorobenzene	52.2		50.00		104.5	83	113				
Surr: Dibromofluoromethane	49.0		50.00		98.0	83.8	118				
Surr: Toluene-d8	48.0		50.00		96.0	85.5	115				

Sample ID: **06090621-007BMS** SampType: **MS** Units: **µg/L** Prep Date: **9/21/2006** RunNo: **84074**
Client ID: **107063MS** Batch ID: **33549** **SW5030** Analysis Date: **9/21/2006** SeqNo: **1387868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1660	20.0	540.0	1285	70.3	57.8	125				
Toluene	516	50.0	540.0	10.60	93.5	75.8	123				
Ethylbenzene	603	50.0	540.0	69.10	98.9	72.8	123				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation li
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06090621
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **06090621-007BMS** SampType: **MS** Units: **µg/L** Prep Date: **9/21/2006** RunNo: **84074**
Client ID: **107063MS** Batch ID: **33549** **SW5030** Analysis Date: **9/21/2006** SeqNo: **1387868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	1110	50.0	1080	81.20	95.7	73	127				
Surr: 1,2-Dichloroethane-d4	454		500.0		90.9	73.9	129				
Surr: 4-Bromofluorobenzene	512		500.0		102.4	83	113				
Surr: Dibromofluoromethane	492		500.0		98.4	83.8	118				
Surr: Toluene-d8	463		500.0		92.6	85.5	115				

Sample ID: **06090621-007BMSD** SampType: **MSD** Units: **µg/L** Prep Date: **9/21/2006** RunNo: **84074**
Client ID: **107063MSD** Batch ID: **33549** **SW5030** Analysis Date: **9/21/2006** SeqNo: **1387869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1690	20.0	540.0	1285	74.4	57.8	125	1665	1.32	15	
Toluene	530	50.0	540.0	10.60	96.3	75.8	123	515.7	2.83	15	
Ethylbenzene	621	50.0	540.0	69.10	102.1	72.8	123	602.9	2.91	15	
Xylenes, Total	1190	50.0	1080	81.20	103.0	73	127	1115	6.79	15	
Surr: 1,2-Dichloroethane-d4	454		500.0		90.8	73.9	129		0	0	
Surr: 4-Bromofluorobenzene	524		500.0		104.8	83	113		0	0	
Surr: Dibromofluoromethane	507		500.0		101.4	83.8	118		0	0	
Surr: Toluene-d8	478		500.0		95.6	85.5	115		0	0	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation li
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

WORK ORDER SAMPLE SUMMARY

Client: Kelron Environmental
Project: CHMGP/162363
Lab Order: 06090621
Date Received: 9/21/2006

Date: *27-Sep-06*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
06090621-001A	112063		9/19/2006 8:23:00 AM
06090621-002A	112963		9/19/2006 8:25:00 AM
06090621-003A	102063		9/19/2006 9:18:00 AM
06090621-004A	111063		9/19/2006 9:52:00 AM
06090621-005A	108063		9/19/2006 10:18:00 AM
06090621-006A	116063		9/19/2006 11:00:00 AM
06090621-007A	107063		9/19/2006 11:21:00 AM
06090621-007B	107063		9/19/2006 11:21:00 AM
06090621-008A	114063		9/19/2006 1:15:00 PM
06090621-008B	114063		9/19/2006 1:15:00 PM
06090621-009A	115063		9/19/2006 1:53:00 PM
06090621-010A	Trip Blank		9/19/2006 8:10:00 AM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

December 27, 2006

Stu Cravens
Kelron Environmental
1213 Dorchester
Champaign, IL 61821
TEL: (217) 390-1503
FAX: (217) 355-1385

NELAP Accredited #100226

RE: CHMGP/162363

OrderNo. 06120390

Dear Stu Cravens:

TEKLAB, INC received 10 samples on 12/14/2006 8:30:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Heather A. Barnes

Heather A. Barnes
Project Manager
(618)344-1004 ex.20

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 06120390
Report Date: December 27, 2006

REPORT CONTENTS

This reporting package includes the following:

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
LabOrder: 06120390
Report Date: December 27, 2006

CASE NARRATIVE

Cooler Receipt Temp 2.6 °C

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	**X** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06120390
Lab ID: 06120390-001
Report Date: 27-Dec-06

Client Project: CHMGP/162363
Client Sample ID: 112064
Collection Date: 12/13/2006 7:45:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/16/2006 12:23:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 12:23:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/16/2006 12:23:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 12:23:00 AM	TAL
Xylenes, Total	NELAP	5 0		**ND**	µg/L	1	12/16/2006 12:23:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**101.8**	%REC	1	12/16/2006 12:23:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**105.9**	%REC	1	12/16/2006 12:23:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**103.3**	%REC	1	12/16/2006 12:23:00 AM	TAL
Surr: Toluene-d8		85.5-115		**96.3**	%REC	1	12/16/2006 12:23:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06120390	**Client Sample ID:**	102064
Lab ID:	06120390-002	**Collection Date:**	12/13/2006 8:20:00 AM
Report Date:	27-Dec-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/16/2006 1:25:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 1:25:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/16/2006 1:25:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 1:25:00 AM	TAL
Xylenes, Total	NELAP	5.0	J	**1.4**	µg/L	1	12/16/2006 1:25:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**102.5**	%REC	1	12/16/2006 1:25:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**105.0**	%REC	1	12/16/2006 1:25:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**102.3**	%REC	1	12/16/2006 1:25:00 AM	TAL
Surr: Toluene-d8		85.5-115		**98.7**	%REC	1	12/16/2006 1:25:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06120390
Lab ID: 06120390-003
Report Date: 27-Dec-06

Client Project: CHMGP/162363
Client Sample ID: 111064
Collection Date: 12/13/2006 8:50:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/16/2006 1:55:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 1:55:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/16/2006 1:55:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 1:55:00 AM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	12/16/2006 1:55:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**99.4**	%REC	1	12/16/2006 1:55:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**104.9**	%REC	1	12/16/2006 1:55:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**101.7**	%REC	1	12/16/2006 1:55:00 AM	TAL
Surr: Toluene-d8		85.5-115		**97.5**	%REC	1	12/16/2006 1:55:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06120390	**Client Sample ID:**	108064
Lab ID:	06120390-004	**Collection Date:**	12/13/2006 9:20:00 AM
Report Date:	27-Dec-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/16/2006 2:26:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 2:26:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/16/2006 2:26:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 2:26:00 AM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	12/16/2006 2:26:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**101.3**	%REC	1	12/16/2006 2:26:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**106.6**	%REC	1	12/16/2006 2:26:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**102.2**	%REC	1	12/16/2006 2:26:00 AM	TAL
Surr: Toluene-d8		85.5-115		**97.8**	%REC	1	12/16/2006 2:26:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06120390	**Client Sample ID:**	116064
Lab ID:	06120390-005	**Collection Date:**	12/13/2006 9:55:00 AM
Report Date:	27-Dec-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/16/2006 2:56:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 2:56:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/16/2006 2:56:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 2:56:00 AM	TAL
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	12/16/2006 2:56:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**106.5**	%REC	1	12/16/2006 2:56:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**105.7**	%REC	1	12/16/2006 2:56:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**104.2**	%REC	1	12/16/2006 2:56:00 AM	TAL
Surr: Toluene-d8		85.5-115		**98.9**	%REC	1	12/16/2006 2:56:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06120390	**Client Sample ID:**	107064
Lab ID:	06120390-006	**Collection Date:**	12/13/2006 10:27:00 AM
Report Date:	27-Dec-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Acenaphthylene	NELAP	0.00010		**0.00020**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Anthracene	NELAP	0.00010		**0.00014**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Chrysene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Fluoranthene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Fluorene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Naphthalene	NELAP	0.00010		**0.0477**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Phenanthrene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Pyrene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Total PNAs except Naphthalene		0.00006		**0.00034**	mg/L	1	12/18/2006 3:38:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		**65.3**	%REC	1	12/18/2006 3:38:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		**63.5**	%REC	1	12/18/2006 3:38:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		**79.2**	%REC	1	12/18/2006 3:38:00 PM	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	10		**812**	µg/L	5	12/16/2006 2:15:00 PM	TAL
Ethylbenzene	NELAP	25.0		**44.1**	µg/L	5	12/16/2006 2:15:00 PM	TAL
Naphthalene	NELAP	50.0		**161**	µg/L	5	12/16/2006 2:15:00 PM	TAL
Toluene	NELAP	25.0	J	**7.1**	µg/L	5	12/16/2006 2:15:00 PM	TAL
Xylenes, Total	NELAP	25.0		**55.2**	µg/L	5	12/16/2006 2:15:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**100.1**	%REC	5	12/16/2006 2:15:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**102.5**	%REC	5	12/16/2006 2:15:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**102.5**	%REC	5	12/16/2006 2:15:00 PM	TAL
Surr: Toluene-d8		85.5-115		**98.2**	%REC	5	12/16/2006 2:15:00 PM	TAL

Sample Narrative

SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06120390
Lab ID: 06120390-007
Report Date: 27-Dec-06

Client Project: CHMGP/162363
Client Sample ID: 114064
Collection Date: 12/13/2006 11:14:00 AM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0250		**0.122**	mg/L	250	12/19/2006 12:32:00 PM	TDN
Acenaphthylene	NELAP	0.00010		**0.0209**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Anthracene	NELAP	0.00010		**0.00140**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		**0.00023**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		**0.00011**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Chrysene	NELAP	0.00010		**0.00012**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Fluoranthene	NELAP	0.00010		**0.00076**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Fluorene	NELAP	0.00010		**0.0156**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Naphthalene	NELAP	0.0250		**5.26**	mg/L	250	12/19/2006 12:32:00 PM	TDN
Phenanthrene	NELAP	0.00010		**0.00551**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Pyrene	NELAP	0.00010		**0.00103**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Total PNAs except Naphthalene		0.00006		**0.109**	mg/L	1	12/18/2006 5:29:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108	S	**200.0**	%REC	250	12/19/2006 12:32:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105	S	**200.0**	%REC	250	12/19/2006 12:32:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		**75.4**	%REC	1	12/18/2006 5:29:00 PM	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	200		**1080**	µg/L	100	12/16/2006 3:58:00 AM	TAL
Ethylbenzene	NELAP	500		**1110**	µg/L	100	12/16/2006 3:58:00 AM	TAL
Naphthalene	NELAP	1000		**5420**	µg/L	100	12/16/2006 3:58:00 AM	TAL
Toluene	NELAP	500	J	**170**	µg/L	100	12/16/2006 3:58:00 AM	TAL
Xylenes, Total	NELAP	500		**1020**	µg/L	100	12/16/2006 3:58:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**103.0**	%REC	100	12/16/2006 3:58:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**103.5**	%REC	100	12/16/2006 3:58:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**103.9**	%REC	100	12/16/2006 3:58:00 AM	TAL
Surr: Toluene-d8		85.5-115		**98.7**	%REC	100	12/16/2006 3:58:00 AM	TAL

Sample Narrative

SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS
Surrogate recovery was outside QC limits due to sample dilution.
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS
Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Kelron Environmental	**Client Project:**	CHMGP/162363
WorkOrder:	06120390	**Client Sample ID:**	114964
Lab ID:	06120390-008	**Collection Date:**	12/13/2006 11:16:00 AM
Report Date:	27-Dec-06	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Acenaphthene	NELAP	0.0250		**0.140**	mg/L	250	12/19/2006 1:09:00 PM	TDN
Acenaphthylene	NELAP	0.00010		**0.0220**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Anthracene	NELAP	0.00010		**0.00117**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		**0.00016**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Chrysene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Fluoranthene	NELAP	0.00010		**0.00056**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Fluorene	NELAP	0.00010		**0.0174**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		**ND**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Naphthalene	NELAP	0.0250		**5.98**	mg/L	250	12/19/2006 1:09:00 PM	TDN
Phenanthrene	NELAP	0.00010		**0.00584**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Pyrene	NELAP	0.00010		**0.00083**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Total PNAs except Naphthalene		0.00006		**0.115**	mg/L	1	12/18/2006 6:05:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108	S	**240.0**	%REC	250	12/19/2006 1:09:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105	S	**200.0**	%REC	250	12/19/2006 1:09:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		**72.0**	%REC	1	12/18/2006 6:05:00 PM	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	100		**1130**	µg/L	50	12/16/2006 8:52:00 PM	TAL
Ethylbenzene	NELAP	250		**1170**	µg/L	50	12/16/2006 8:52:00 PM	TAL
Naphthalene	NELAP	500		**5830**	µg/L	50	12/16/2006 8:52:00 PM	TAL
Toluene	NELAP	250	J	**150**	µg/L	50	12/16/2006 8:52:00 PM	TAL
Xylenes, Total	NELAP	250		**984**	µg/L	50	12/16/2006 8:52:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**99.4**	%REC	50	12/16/2006 8:52:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**106.6**	%REC	50	12/16/2006 8:52:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**101.6**	%REC	50	12/16/2006 8:52:00 PM	TAL
Surr: Toluene-d8		85.5-115		**99.4**	%REC	50	12/16/2006 8:52:00 PM	TAL

Sample Narrative

SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to sample dilution.

SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06120390
Lab ID: 06120390-009
Report Date: 27-Dec-06

Client Project: CHMGP/162363
Client Sample ID: 115064
Collection Date: 12/13/2006 12:00:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**4.4**	µg/L	1	12/16/2006 8:22:00 PM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 8:22:00 PM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/16/2006 8:22:00 PM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 8:22:00 PM	TAL
Xylenes, Total	NELAP	5.0	J	**1.2**	µg/L	1	12/16/2006 8:22:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**100.1**	%REC	1	12/16/2006 8:22:00 PM	TAL
Surr: 4-Bromofluorobenzene		83-113		**105.0**	%REC	1	12/16/2006 8:22:00 PM	TAL
Surr: Dibromofluoromethane		83.8-118		**100.5**	%REC	1	12/16/2006 8:22:00 PM	TAL
Surr: Toluene-d8		85.5-115		**97.1**	%REC	1	12/16/2006 8:22:00 PM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Kelron Environmental
WorkOrder: 06120390
Lab ID: 06120390-010
Report Date: 27-Dec-06

Client Project: CHMGP/162363
Client Sample ID: Trip Blank
Collection Date: 12/6/2006 2:45:00 PM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	12/16/2006 11:42:00 AM	TAL
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 11:42:00 AM	TAL
Naphthalene	NELAP	10		**ND**	µg/L	1	12/16/2006 11:42:00 AM	TAL
Toluene	NELAP	5.0		**ND**	µg/L	1	12/16/2006 11:42:00 AM	TAL
Xylenes, Total	NELAP	5.0	J	**1.0**	µg/L	1	12/16/2006 11:42:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		73.9-129		**101.5**	%REC	1	12/16/2006 11:42:00 AM	TAL
Surr: 4-Bromofluorobenzene		83-113		**103.4**	%REC	1	12/16/2006 11:42:00 AM	TAL
Surr: Dibromofluoromethane		83.8-118		**101.1**	%REC	1	12/16/2006 11:42:00 AM	TAL
Surr: Toluene-d8		85.5-115		**98.8**	%REC	1	12/16/2006 11:42:00 AM	TAL

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Kelron Environmental
Project: CHMGP/162363
Lab Order: 06120390
Date Received: 12/14/2006 8:30:00 AM

DATES REPORT

Date: *27-Dec-06*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
06120390-001A	112064	12/13/2006	Aqueous	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/15/2006	12/16/2006
06120390-002A	102064			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/15/2006	12/16/2006
06120390-003A	111064			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/15/2006	12/16/2006
06120390-004A	108064			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/15/2006	12/16/2006
06120390-005A	116064			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/15/2006	12/16/2006
06120390-006A	107064			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS		12/18/2006	12/18/2006
06120390-006B				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/16/2006	12/16/2006
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/15/2006	12/16/2006
06120390-007A	114064			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS		12/18/2006	12/19/2006
				SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS		12/18/2006	12/18/2006
06120390-007B				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/15/2006	12/16/2006
06120390-008A	114964			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS		12/18/2006	12/18/2006
				SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS		12/18/2006	12/19/2006
06120390-008B				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/16/2006	12/16/2006
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/16/2006	12/16/2006
06120390-009A	115064			SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/16/2006	12/16/2006
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/16/2006	12/16/2006
06120390-010A	Trip Blank	12/6/2006	Trip Blank	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		12/16/2006	12/16/2006

TEKLAB, INC

Date: *27-Dec-06*

CLIENT: Kelron Environmental
Work Order: 06120390
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W_SIMS

Sample ID: **MB-34908**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **12/18/2006**	RunNo: **87571**
Client ID: **ZZZZZZ**	Batch ID: **34908**	**SW3510C**	Analysis Date: **12/18/2006**	SeqNo: **1459601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.00010									
Acenaphthylene	ND	0.00010									
Anthracene	ND	0.00010									
Benzo(a)anthracene	ND	0.00010									
Benzo(a)pyrene	ND	0.00010									
Benzo(b)fluoranthene	ND	0.00010									
Benzo(g,h,i)perylene	ND	0.00010									
Benzo(k)fluoranthene	ND	0.00010									
Chrysene	ND	0.00010									
Dibenzo(a,h)anthracene	ND	0.00010									
Fluoranthene	ND	0.00010									
Fluorene	ND	0.00010									
Indeno(1,2,3-cd)pyrene	ND	0.00010									
Naphthalene	ND	0.00010									
Phenanthrene	ND	0.00010									
Pyrene	ND	0.00010									
Total PNAs except Naphthalene	ND	0.00013									
Surr: 2-Fluorobiphenyl	0.00307		0.005000		61.4	45.7	108				
Surr: Nitrobenzene-d5	0.00330		0.005000		66.0	39.4	112				
Surr: p-Terphenyl-d14	0.00393		0.005000		78.6	58.6	130				

Sample ID: **LCS-34908**	SampType: **LCS**	Units: **mg/L**	Prep Date: **12/18/2006**	RunNo: **87571**
Client ID: **ZZZZZZ**	Batch ID: **34908**	**SW3510C**	Analysis Date: **12/18/2006**	SeqNo: **1459602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00335	0.00010	0.005000	0	67.0	50.1	103				
Acenaphthylene	0.00394	0.00010	0.005000	0	78.8	53.3	122				
Anthracene	0.00347	0.00010	0.005000	0	69.4	57.4	110				
Benzo(a)anthracene	0.00339	0.00010	0.005000	0	67.8	56	102				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation li
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: Kelron Environmental
Work Order: 06120390
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W_SIMS

Sample ID: **LCS-34908**	SampType: **LCS**			Units: **mg/L**		Prep Date: **12/18/2006**		RunNo: **87571**		
Client ID: **ZZZZZZ**	Batch ID: **34908**			**SW3510C**		Analysis Date: **12/18/2006**		SeqNo: **1459602**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.00403	0.00010	0.005000	0	80.6	55.4	125				
Benzo(b)fluoranthene	0.00385	0.00010	0.005000	0	77.0	59.3	127				
Benzo(g,h,i)perylene	0.00375	0.00010	0.005000	0	75.0	58.4	125				
Benzo(k)fluoranthene	0.00397	0.00010	0.005000	0	79.4	61.5	125				
Chrysene	0.00358	0.00010	0.005000	0	71.6	58.7	118				
Dibenzo(a,h)anthracene	0.00392	0.00010	0.005000	0	78.4	59.3	126				
Fluoranthene	0.00386	0.00010	0.005000	0	77.2	60.1	117				
Fluorene	0.00360	0.00010	0.005000	0	72.0	54.1	110				
Indeno(1,2,3-cd)pyrene	0.00366	0.00010	0.005000	0	73.2	58.1	123				
Naphthalene	0.00301	0.00010	0.005000	0	60.2	36.3	97.1				
Phenanthrene	0.00350	0.00010	0.005000	0	70.0	55.9	107				
Pyrene	0.00388	0.00010	0.005000	0	77.6	61.4	116				
Surr: 2-Fluorobiphenyl	0.00305		0.005000		61.0	41.9	97.9				
Surr: Nitrobenzene-d5	0.00328		0.005000		65.6	39.9	106				
Surr: p-Terphenyl-d14	0.00397		0.005000		79.4	53	116				

Sample ID: **LCSD-34908**	SampType: **LCSD**			Units: **mg/L**		Prep Date: **12/18/2006**		RunNo: **87571**		
Client ID: **ZZZZZZ**	Batch ID: **34908**			**SW3510C**		Analysis Date: **12/18/2006**		SeqNo: **1459603**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00347	0.00010	0.005000	0	69.4	50.1	103	0.003350	3.52	50	
Acenaphthylene	0.00401	0.00010	0.005000	0	80.2	53.3	122	0.003940	1.76	50	
Anthracene	0.00354	0.00010	0.005000	0	70.8	57.4	110	0.003470	2.00	50	
Benzo(a)anthracene	0.00334	0.00010	0.005000	0	66.8	56	102	0.003390	1.49	50	
Benzo(a)pyrene	0.00400	0.00010	0.005000	0	80.0	55.4	125	0.004030	0.747	50	
Benzo(b)fluoranthene	0.00387	0.00010	0.005000	0	77.4	59.3	127	0.003850	0.518	50	
Benzo(g,h,i)perylene	0.00375	0.00010	0.005000	0	75.0	58.4	125	0.003750	0	50	
Benzo(k)fluoranthene	0.00397	0.00010	0.005000	0	79.4	61.5	125	0.003970	0	50	
Chrysene	0.00362	0.00010	0.005000	0	72.4	58.7	118	0.003580	1.11	50	
Dibenzo(a,h)anthracene	0.00394	0.00010	0.005000	0	78.8	59.3	126	0.003920	0.509	50	
Fluoranthene	0.00377	0.00010	0.005000	0	75.4	60.1	117	0.003860	2.36	50	

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation li
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06120390
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W_SIMS

Sample ID: **LCSD-34908**	SampType: **LCSD**			Units: **mg/L**		Prep Date: **12/18/2006**			RunNo: **87571**		
Client ID: **ZZZZZZ**	Batch ID: **34908**			**SW3510C**		Analysis Date: **12/18/2006**			SeqNo: **1459603**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	0.00365	0.00010	0.005000	0	73.0	54.1	110	0.003600	1.38	50	
Indeno(1,2,3-cd)pyrene	0.00369	0.00010	0.005000	0	73.8	58.1	123	0.003660	0.816	50	
Naphthalene	0.00301	0.00010	0.005000	0	60.2	36.3	97.1	0.003010	0	50	
Phenanthrene	0.00348	0.00010	0.005000	0	69.6	55.9	107	0.003500	0.573	50	
Pyrene	0.00373	0.00010	0.005000	0	74.6	61.4	116	0.003880	3.94	50	
Surr: 2-Fluorobiphenyl	0.00304		0.005000		60.8	41.9	97.9		0	50	
Surr: Nitrobenzene-d5	0.00333		0.005000		66.6	39.9	106		0	50	
Surr: p-Terphenyl-d14	0.00389		0.005000		77.8	53	116		0	50	

Sample ID: **06120390-006AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/18/2006**			RunNo: **87571**		
Client ID: **107064MS**	Batch ID: **34908**			**SW3510C**		Analysis Date: **12/18/2006**			SeqNo: **1459753**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00375	0.00010	0.005556	0	67.5	42.4	117				
Acenaphthylene	0.00460	0.00010	0.005556	0.0002000	79.2	48.4	133				
Anthracene	0.00396	0.00010	0.005556	0.0001400	68.8	52.4	115				
Benzo(a)anthracene	0.00361	0.00010	0.005556	0	65.0	50.8	105				
Benzo(a)pyrene	0.00435	0.00010	0.005556	0	78.3	53.3	126				
Benzo(b)fluoranthene	0.00400	0.00010	0.005556	0	72.0	53.5	131				
Benzo(g,h,i)perylene	0.00390	0.00010	0.005556	0	70.2	54.6	127				
Benzo(k)fluoranthene	0.00415	0.00010	0.005556	0	74.7	56.2	128				
Chrysene	0.00381	0.00010	0.005556	0	68.6	54.4	122				
Dibenzo(a,h)anthracene	0.00425	0.00010	0.005556	0	76.5	54.8	127				
Fluoranthene	0.00440	0.00010	0.005556	0	79.2	54.5	122				
Fluorene	0.00390	0.00010	0.005556	0	70.2	47.7	119				
Indeno(1,2,3-cd)pyrene	0.00396	0.00010	0.005556	0	71.3	53.2	125				
Naphthalene	0.0515	0.00010	0.005556	0.04770	68.6	36.3	107				E
Phenanthrene	0.00389	0.00010	0.005556	0	70.0	51	112				
Pyrene	0.00436	0.00010	0.005556	0	78.5	55.9	121				
Surr: 2-Fluorobiphenyl	0.00372		0.005556		67.0	41.1	108				
Surr: Nitrobenzene-d5	0.00387		0.005556		69.7	37.6	105				

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation li
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06120390
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W_SIMS

Sample ID: **06120390-006AMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/18/2006**		RunNo: **87571**		
Client ID: **107064MS**	Batch ID: **34908**			**SW3510C**		Analysis Date: **12/18/2006**		SeqNo: **1459753**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl-d14	0.00439		0.005556		79.0	49	113				

Sample ID: **06120390-006AMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **12/18/2006**		RunNo: **87571**		
Client ID: **107064MSD**	Batch ID: **34908**			**SW3510C**		Analysis Date: **12/18/2006**		SeqNo: **1459754**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00386	0.00010	0.005556	0	69.5	42.4	117	0.003750	2.89	50	
Acenaphthylene	0.00468	0.00010	0.005556	0.0002000	80.6	48.4	133	0.004600	1.72	50	
Anthracene	0.00409	0.00010	0.005556	0.0001400	71.1	52.4	115	0.003960	3.23	50	
Benzo(a)anthracene	0.00374	0.00010	0.005556	0	67.3	50.8	105	0.003610	3.54	50	
Benzo(a)pyrene	0.00451	0.00010	0.005556	0	81.2	53.3	126	0.004350	3.61	50	
Benzo(b)fluoranthene	0.00418	0.00010	0.005556	0	75.2	53.5	131	0.004000	4.40	50	
Benzo(g,h,i)perylene	0.00403	0.00010	0.005556	0	72.5	54.6	127	0.003900	3.28	50	
Benzo(k)fluoranthene	0.00425	0.00010	0.005556	0	76.5	56.2	128	0.004150	2.38	50	
Chrysene	0.00395	0.00010	0.005556	0	71.1	54.4	122	0.003810	3.61	50	
Dibenzo(a,h)anthracene	0.00438	0.00010	0.005556	0	78.8	54.8	127	0.004250	3.01	50	
Fluoranthene	0.00457	0.00010	0.005556	0	82.3	54.5	122	0.004400	3.79	50	
Fluorene	0.00393	0.00010	0.005556	0	70.7	47.7	119	0.003900	0.766	50	
Indeno(1,2,3-cd)pyrene	0.00408	0.00010	0.005556	0	73.4	53.2	125	0.003960	2.99	50	
Naphthalene	0.0512	0.00010	0.005556	0.04770	63.4	36.3	107	0.05151	0.565	50	E
Phenanthrene	0.00401	0.00010	0.005556	0	72.2	51	112	0.003890	3.04	50	
Pyrene	0.00455	0.00010	0.005556	0	81.9	55.9	121	0.004360	4.26	50	
Surr: 2-Fluorobiphenyl	0.00368		0.005556		66.2	41.1	108		0	50	
Surr: Nitrobenzene-d5	0.00386		0.005556		69.5	37.6	105		0	50	
Surr: p-Terphenyl-d14	0.00447		0.005556		80.5	49	113		0	50	

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation li
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06120390
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-N061216-1** SampType: **LCS1** Units: **µg/L** Prep Date: **12/16/2006** RunNo: **87525**
Client ID: **ZZZZZZ** Batch ID: **34904** **SW5030** Analysis Date: **12/16/2006** SeqNo: **1458604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.0	2.0	50.00	0	108.0	79.3	122				
Toluene	53.5	5.0	50.00	0	107.1	81.5	123				
Ethylbenzene	52.1	5.0	50.00	0	104.2	83	131				
Xylenes, Total	106	5.0	100.0	0	105.7	83.2	131				
Naphthalene	47.5	10	50.00	0	95.1	78.5	140				
Surr: 1,2-Dichloroethane-d4	50.7		50.00		101.4	73.9	129				
Surr: 4-Bromofluorobenzene	52.7		50.00		105.4	83	113				
Surr: Dibromofluoromethane	51.5		50.00		103.0	83.8	118				
Surr: Toluene-d8	47.9		50.00		95.9	85.5	115				

Sample ID: **MBLK-N061216-1** SampType: **MBLK** Units: **µg/L** Prep Date: **12/16/2006** RunNo: **87525**
Client ID: **ZZZZZZ** Batch ID: **34904** **SW5030** Analysis Date: **12/16/2006** SeqNo: **1458606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Naphthalene	ND	10									
Surr: 1,2-Dichloroethane-d4	50.9		50.00		101.7	73.9	129				
Surr: 4-Bromofluorobenzene	52.7		50.00		105.5	83	113				
Surr: Dibromofluoromethane	50.5		50.00		101.0	83.8	118				
Surr: Toluene-d8	49.3		50.00		98.7	85.5	115				

Sample ID: **06120390-006BMS** SampType: **MS** Units: **µg/L** Prep Date: **12/16/2006** RunNo: **87525**
Client ID: **107064MS** Batch ID: **34904** **SW5030** Analysis Date: **12/16/2006** SeqNo: **1458612**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	986	10	270.0	812.1	64.4	57.8	125				
Toluene	282	25.0	270.0	7.100	101.7	75.8	123				
Ethylbenzene	312	25.0	270.0	44.05	99.2	72.8	123				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation li
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Kelron Environmental
Work Order: 06120390
Project: CHMGP/162363

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **06120390-006BMS**	SampType: **MS**			Units: **µg/L**		Prep Date: **12/16/2006**		RunNo: **87525**		
Client ID: **107064MS**	Batch ID: **34904**			**SW5030**		Analysis Date: **12/16/2006**		SeqNo: **1458612**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	595	25.0	540.0	55.15	100	73	127				
Surr: 1,2-Dichloroethane-d4	241		250.0		96.6	73.9	129				
Surr: 4-Bromofluorobenzene	267		250.0		106.8	83	113				
Surr: Dibromofluoromethane	241		250.0		96.5	83.8	118				
Surr: Toluene-d8	248		250.0		99.0	85.5	115				

Sample ID: **06120390-006BMSD**	SampType: **MSD**			Units: **µg/L**		Prep Date: **12/16/2006**		RunNo: **87525**		
Client ID: **107064MSD**	Batch ID: **34904**			**SW5030**		Analysis Date: **12/16/2006**		SeqNo: **1458613**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1040	10	270.0	812.1	84.4	57.8	125	986.1	5.33	15	
Toluene	284	25.0	270.0	7.100	102.4	75.8	123	281.8	0.654	15	
Ethylbenzene	323	25.0	270.0	44.05	103.4	72.8	123	312.0	3.59	15	
Xylenes, Total	617	25.0	540.0	55.15	104.0	73	127	595.0	3.59	15	
Surr: 1,2-Dichloroethane-d4	250		250.0		99.8	73.9	129		0	0	
Surr: 4-Bromofluorobenzene	266		250.0		106.4	83	113		0	0	
Surr: Dibromofluoromethane	253		250.0		101.0	83.8	118		0	0	
Surr: Toluene-d8	239		250.0		95.8	85.5	115		0	0	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation li
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

WORK ORDER SAMPLE SUMMARY

Client: Kelron Environmental
Project: CHMGP/162363
Lab Order: 06120390
Date Received: 12/14/2006

Date: *27-Dec-06*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
06120390-001A	112064		12/13/2006 7:45:00 AM
06120390-002A	102064		12/13/2006 8:20:00 AM
06120390-003A	111064		12/13/2006 8:50:00 AM
06120390-004A	108064		12/13/2006 9:20:00 AM
06120390-005A	116064		12/13/2006 9:55:00 AM
06120390-006A	107064		12/13/2006 10:27:00 AM
06120390-006B	107064		12/13/2006 10:27:00 AM
06120390-007A	114064		12/13/2006 11:14:00 AM
06120390-007B	114064		12/13/2006 11:14:00 AM
06120390-008A	114964		12/13/2006 11:16:00 AM
06120390-008B	114964		12/13/2006 11:16:00 AM
06120390-009A	115064		12/13/2006 12:00:00 PM
06120390-010A	Trip Blank		12/6/2006 2:45:00 PM

APPENDIX N

CSI Laboratory QA/QC Reports

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TCN_S_MT

Sample ID: **MB-R54277**	SampType: **MBLK**	TestCode: **I_TCN_S_MT**	Units: **mg/kg**	Prep Date:	Run ID: **DR2010_040804A**
Client ID: **ZZZZZ**	Batch ID: **R54277**	TestNo: **SW9014**		Analysis Date: **8/4/04**	SeqNo: **808594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.01	0.01									

Sample ID: **LCS-R54277**	SampType: **LCS**	TestCode: **I_TCN_S_MT**	Units: **mg/kg**	Prep Date:	Run ID: **DR2010_040804A**
Client ID: **ZZZZZ**	Batch ID: **R54277**	TestNo: **SW9014**		Analysis Date: **8/4/04**	SeqNo: **808595**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.23	0.01	0.2	0	115	85	115	0	0		

Sample ID: **LCSD**	SampType: **LCSD**	TestCode: **I_TCN_S_MT**	Units: **mg/kg**	Prep Date:	Run ID: **DR2010_040804A**
Client ID: **ZZZZZ**	Batch ID: **R54277**	TestNo: **SW9014**		Analysis Date: **8/4/04**	SeqNo: **808596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.23	0.01	0.2	0	115	85	115	0.23	0	10	

Sample ID: **04070635-043A MS**	SampType: **MS**	TestCode: **I_TCN_S_MT**	Units: **mg/kg-dry**	Prep Date:	Run ID: **DR2010_040804A**
Client ID: **B516-3 (2-3')**	Batch ID: **R54277**	TestNo: **SW9014**		Analysis Date: **8/4/04**	SeqNo: **808967**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	63.4	3.14	31.4	41.6	69.4	80	120	0	0		S

Sample ID: **04070635-043A MSD**	SampType: **MSD**	TestCode: **I_TCN_S_MT**	Units: **mg/kg-dry**	Prep Date:	Run ID: **DR2010_040804A**
Client ID: **B516-3 (2-3')**	Batch ID: **R54277**	TestNo: **SW9014**		Analysis Date: **8/4/04**	SeqNo: **808968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	81.7	3.14	31.4	41.6	128	80	120	63.4	25.2	15	SR

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TS_M_MT

Sample ID: **LCS-R53963**	SampType: **LCS**	TestCode: **I_TS_M_MT**	Units: **%**	Prep Date:	Run ID: **INORGANICS_040726C**
Client ID: **ZZZZZ**	Batch ID: **R53963**	TestNo: **M2540 G**		Analysis Date: **7/26/04**	SeqNo: **802564**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	976	0.1	1000	0	97.6	90	110	0	0		

Sample ID: **LCS-R54018**	SampType: **LCS**	TestCode: **I_TS_M_MT**	Units: **%**	Prep Date:	Run ID: **INORGANICS_040727B**
Client ID: **ZZZZZ**	Batch ID: **R54018**	TestNo: **M2540 G**		Analysis Date: **7/27/04**	SeqNo: **803578**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	983	0.1	1000	0	98.3	90	110	0	0		

Sample ID: **LCS DUP**	SampType: **LCSD**	TestCode: **I_TS_M_MT**	Units: **%**	Prep Date:	Run ID: **INORGANICS_040726C**
Client ID: **ZZZZZ**	Batch ID: **R53963**	TestNo: **M2540 G**		Analysis Date: **7/26/04**	SeqNo: **802645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	996	0.1	1000	0	99.6	90	110	976	2.03	15	

Sample ID: **LCS DUP**	SampType: **LCSD**	TestCode: **I_TS_M_MT**	Units: **%**	Prep Date:	Run ID: **INORGANICS_040727B**
Client ID: **ZZZZZ**	Batch ID: **R54018**	TestNo: **M2540 G**		Analysis Date: **7/27/04**	SeqNo: **803628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	985	0.1	1000	0	98.5	90	110	983	0.203	15	

Sample ID: **04070635-014ADUP**	SampType: **DUP**	TestCode: **I_TS_M_MT**	Units: **%**	Prep Date:	Run ID: **INORGANICS_040726C**
Client ID: **B508-28 (27-28')**	Batch ID: **R53963**	TestNo: **M2540 G**		Analysis Date: **7/26/04**	SeqNo: **802638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	90.1	0.1	0	0	0	0	0	90	0.111	15	

Sample ID: **04070635-030ADUP**	SampType: **DUP**	TestCode: **I_TS_M_MT**	Units: **%**	Prep Date:	Run ID: **INORGANICS_040727B**
Client ID: **B509-8 (7-8')**	Batch ID: **R54018**	TestNo: **M2540 G**		Analysis Date: **7/27/04**	SeqNo: **803596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TS_M_MT

Sample ID: **04070635-030ADUP**	SampType: **DUP**	TestCode: **I_TS_M_MT**	Units: **%**	Prep Date:	Run ID: **INORGANICS_040727B**
Client ID: **B509-8 (7-8')**	Batch ID: **R54018**	TestNo: **M2540 G**		Analysis Date: **7/27/04**	SeqNo: **803596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	76.3	0.1	0	0	0	0	0	77.8	1.95	15	

Sample ID: **04070635-051ADUP**	SampType: **DUP**	TestCode: **I_TS_M_MT**	Units: **%**	Prep Date:	Run ID: **INORGANICS_040727B**
Client ID: **B514-17 (16-17')**	Batch ID: **R54018**	TestNo: **M2540 G**		Analysis Date: **7/27/04**	SeqNo: **803618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	90.9	0.1	0	0	0	0	0	90.1	0.884	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: L_PH_S_M

Sample ID: LCS-R53932	SampType: LCS	TestCode: L_PH_S_M	Units:	Prep Date:	Run ID: PH METER - LOG IN_04
Client ID: ZZZZZ	Batch ID: R53932	TestNo: SW9045 C		Analysis Date: 7/26/04	SeqNo: 802805

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	7.04	1.00	7	0	101	99.1	100.9	0	0		

Sample ID: LCS-R54032	SampType: LCS	TestCode: L_PH_S_M	Units:	Prep Date:	Run ID: PH METER - LOG IN_04
Client ID: ZZZZZ	Batch ID: R54032	TestNo: SW9045 C		Analysis Date: 7/27/04	SeqNo: 803818

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	7.05	1.00	7	0	101	99.1	100.9	0	0		

Sample ID: 04070635-022A DUP	SampType: DUP	TestCode: L_PH_S_M	Units:	Prep Date:	Run ID: PH METER - LOG IN_04
Client ID: B556-28 (27-28')	Batch ID: R54032	TestNo: SW9045 C		Analysis Date: 7/27/04	SeqNo: 803829

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	8.25	1.00	0	0	0	0	0	8.15	1.22	10	

Sample ID: 04070635-043A DUP	SampType: DUP	TestCode: L_PH_S_M	Units:	Prep Date:	Run ID: PH METER - LOG IN_04
Client ID: B516-3 (2-3')	Batch ID: R54032	TestNo: SW9045 C		Analysis Date: 7/27/04	SeqNo: 803839

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	7.5	1.00	0	0	0	0	0	7.53	0.399	10	

Sample ID: 04070635-017A DUP	SampType: DUP	TestCode: L_PH_S_M	Units:	Prep Date:	Run ID: PH METER - LOG IN_04
Client ID: B557-12 (11-12')	Batch ID: R54032	TestNo: SW9045 C		Analysis Date: 7/27/04	SeqNo: 803844

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	7.89	1.00	0	0	0	0	0	7.8	1.15	10	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_SOLID

Sample ID: **MB-21197**	SampType: **MBLK**	TestCode: **M_HG_SOLID**	Units: **mg/Kg**	Prep Date: **7/26/04**	Run ID: **CVAA_040727A**
Client ID: **ZZZZZ**	Batch ID: **21197**	TestNo: **SW7471 A**		Analysis Date: **7/27/04**	SeqNo: **802885**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.010	0.010	0.01	0	0	-100	100	0	0		

Sample ID: **MB-21289**	SampType: **MBLK**	TestCode: **M_HG_SOLID**	Units: **mg/Kg**	Prep Date: **8/1/04**	Run ID: **CVAA_040802A**
Client ID: **ZZZZZ**	Batch ID: **21289**	TestNo: **SW7471 A**		Analysis Date: **8/2/04**	SeqNo: **806950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.010	0.010	0.01	0	0	-100	100	0	0		

Sample ID: **LCS-21197**	SampType: **LCS**	TestCode: **M_HG_SOLID**	Units: **mg/Kg**	Prep Date: **7/26/04**	Run ID: **CVAA_040727A**
Client ID: **ZZZZZ**	Batch ID: **21197**	TestNo: **SW7471 A**		Analysis Date: **7/27/04**	SeqNo: **802884**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.276	0.010	0.25	0	110	85	115	0	0		

Sample ID: **LCS-21289**	SampType: **LCS**	TestCode: **M_HG_SOLID**	Units: **mg/Kg**	Prep Date: **8/1/04**	Run ID: **CVAA_040802A**
Client ID: **ZZZZZ**	Batch ID: **21289**	TestNo: **SW7471 A**		Analysis Date: **8/2/04**	SeqNo: **806949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.246	0.010	0.25	0	98.4	85	115	0	0		

Sample ID: **04070635-030AMS**	SampType: **MS**	TestCode: **M_HG_SOLID**	Units: **mg/Kg-dry**	Prep Date: **7/26/04**	Run ID: **CVAA_040727A**
Client ID: **B509-8 (7-8')**	Batch ID: **21197**	TestNo: **SW7471 A**		Analysis Date: **7/27/04**	SeqNo: **802910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.372	0.013	0.31	0.028	111	75	125	0	0		

Sample ID: **04070635-042AMS**	SampType: **MS**	TestCode: **M_HG_SOLID**	Units: **mg/Kg-dry**	Prep Date: **8/1/04**	Run ID: **CVAA_040802A**
Client ID: **B506-28 (27-28')**	Batch ID: **21289**	TestNo: **SW7471 A**		Analysis Date: **8/2/04**	SeqNo: **806974**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_SOLID

Sample ID: **04070635-042AMS**	SampType: **MS**	TestCode: **M_HG_SOLID**	Units: **mg/Kg-dry**	Prep Date: **8/1/04**	Run ID: **CVAA_040802A**
Client ID: **B506-28 (27-28')**	Batch ID: **21289**	TestNo: **SW7471 A**		Analysis Date: **8/2/04**	SeqNo: **806974**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.288	0.010	0.259	0.008	108	75	125	0	0		

Sample ID: **04070635-030AMSD**	SampType: **MSD**	TestCode: **M_HG_SOLID**	Units: **mg/Kg-dry**	Prep Date: **7/26/04**	Run ID: **CVAA_040727A**
Client ID: **B509-8 (7-8')**	Batch ID: **21197**	TestNo: **SW7471 A**		Analysis Date: **7/27/04**	SeqNo: **802911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.369	0.013	0.31	0.028	110	75	125	0.371	0.694	15	

Sample ID: **04070635-042AMSD**	SampType: **MSD**	TestCode: **M_HG_SOLID**	Units: **mg/Kg-dry**	Prep Date: **8/1/04**	Run ID: **CVAA_040802A**
Client ID: **B506-28 (27-28')**	Batch ID: **21289**	TestNo: **SW7471 A**		Analysis Date: **8/2/04**	SeqNo: **806975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.268	0.010	0.259	0.008	100	75	125	0.288	7.19	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **MB-21219** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP 2_040728B**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **7/28/04** SeqNo: **803734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 1.00	1.00	1	0	0	-100	100	0	0		
Lead	< 4.00	4.00	4	0	0	-100	100	0	0		

Sample ID: **MB-21219** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP 2_040729A**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **7/29/04** SeqNo: **805107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 1.00	1.00	1	0	0	-100	100	0	0		
Lead	< 4.00	4.00	4	0	0	-100	100	0	0		

Sample ID: **MB-21219** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP_040802B**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **806911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 0.20	0.20	0.2	0	0	-100	100	0	0		
Lead	< 4.00	4.00	4	0	0	-100	100	0	0		
Selenium	< 4.00	4.00	4	0	0	-100	100	0	0		

Sample ID: **MB-21275** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP_040802B**
Client ID: **ZZZZZ** Batch ID: **21275** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **806914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.50	0.50	0.5	0	0	-100	100	0	0		
Cadmium	< 0.20	0.20	0.2	0	0	-100	100	0	0		
Lead	< 4.00	4.00	4	0	0	-100	100	0	0		
Selenium	< 4.00	4.00	4	0	0	-100	100	0	0		
Silver	< 1.00	1.00	1	0	0	-100	100	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **MB-21275** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ** Batch ID: **21275** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.5	0	0	-100	100	0	0		
Chromium	< 1.00	1.00	1	0	0	-100	100	0	0		
Lead	< 4.00	4.00	4	0	0	-100	100	0	0		

Sample ID: **MB-21219** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.5	0	0	-100	100	0	0		
Chromium	< 1.00	1.00	1	0	0	-100	100	0	0		

Sample ID: **MB-21219** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 1.00	1.00	1	0	0	-100	100	0	0		

Sample ID: **MB-21275** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ** Batch ID: **21275** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 1.00	1.00	1	0	0	-100	100	0	0		

Sample ID: **MB-21276** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ** Batch ID: **21276** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 1.00	1.00	1	0	0	-100	100	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **MB-21219**	SampType: **MBLK**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/27/04**	Run ID: **ICP_040802E**
Client ID: **ZZZZZ**	Batch ID: **21219**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807737**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.50	0.50	0.5	0	0	-100	100	0	0		
Cadmium	< 0.20	0.20	0.2	0	0	-100	100	0	0		
Lead	< 4.00	4.00	4	0	0	-100	100	0	0		
Selenium	< 4.00	4.00	4	0	0	-100	100	0	0		
Silver	< 1.00	1.00	1	0	0	-100	100	0	0		

Sample ID: **MB-21276**	SampType: **MBLK**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP_040802E**
Client ID: **ZZZZZ**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807753**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.50	0.50	0.5	0	0	-100	100	0	0		
Cadmium	< 0.20	0.20	0.2	0	0	-100	100	0	0		
Lead	< 4.00	4.00	4	0	0	-100	100	0	0		
Selenium	< 4.00	4.00	4	0	0	-100	100	0	0		
Silver	< 1.00	1.00	1	0	0	-100	100	0	0		

Sample ID: **MB-21276**	SampType: **MBLK**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040803A**
Client ID: **ZZZZZ**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/3/04**	SeqNo: **808065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.5	0	0	-100	100	0	0		
Lead	< 4.00	4.00	4	0	0	-100	100	0	0		

Sample ID: **MB-21275**	SampType: **MBLK**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040803A**
Client ID: **ZZZZZ**	Batch ID: **21275**	TestNo: **SW6010B**		Analysis Date: **8/3/04**	SeqNo: **808093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.5	0	0	-100	100	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **MB-21219** SampType: **MBLK** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP 2_040804A**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **8/4/04** SeqNo: **808847**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.5	0	0	-100	100	0	0		

Sample ID: **LCS-21219** SampType: **LCS** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP 2_040728B**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **7/28/04** SeqNo: **803735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.5	1.00	20	0	103	85	115	0	0		
Lead	50.4	4.00	50	0	101	85	115	0	0		

Sample ID: **LCS-21219** SampType: **LCS** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP 2_040729A**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **7/29/04** SeqNo: **805108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.5	1.00	20	0	97.5	85	115	0	0		
Lead	52.2	4.00	50	0	104	85	115	0	0		

Sample ID: **LCS-21219** SampType: **LCS** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP_040802B**
Client ID: **ZZZZZ** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **806910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	5.25	0.20	5	0	105	85	115	0	0		
Lead	53.6	4.00	50	0	107	85	115	0	0		
Selenium	214	4.00	200	0	107	85	115	0	0		

Sample ID: **LCS-21275** SampType: **LCS** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP_040802B**
Client ID: **ZZZZZ** Batch ID: **21275** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **806913**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	208	0.50	200	0	104	85	115	0	0		
Cadmium	5.18	0.20	5	0	104	85	115	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **LCS-21275**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP_040802B**
Client ID: **ZZZZZ**	Batch ID: **21275**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **806913**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	52	4.00	50	0	104	85	115	0	0		
Selenium	213	4.00	200	0	106	85	115	0	0		
Silver	5.12	1.00	5	0	102	85	115	0	0		

Sample ID: **LCS-21275**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ**	Batch ID: **21275**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	199	2.50	200	0	99.5	85	115	0	0		
Chromium	19.8	1.00	20	0	99	85	115	0	0		

Sample ID: **LCS-21275**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ**	Batch ID: **21275**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	47.6	4.00	50	0	95.2	85	115	0	0		

Sample ID: **LCS-21219**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/27/04**	Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ**	Batch ID: **21219**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	189	2.50	200	0	94.5	85	115	0	0		
Chromium	20.2	1.00	20	0	101	85	115	0	0		

Sample ID: **LCS-21219**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/27/04**	Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ**	Batch ID: **21219**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20	1.00	20	0	100	85	115	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **LCS-21275**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ**	Batch ID: **21275**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.7	1.00	20	0	98.5	85	115	0	0		

Sample ID: **LCS-21276**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040802B**
Client ID: **ZZZZZ**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807675**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.7	1.00	20	0	93.5	85	115	0	0		

Sample ID: **LCS-21219**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/27/04**	Run ID: **ICP_040802E**
Client ID: **ZZZZZ**	Batch ID: **21219**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	217	0.50	200	0	108	85	115	0	0		
Cadmium	5.28	0.20	5	0	106	85	115	0	0		
Lead	53.1	4.00	50	0	106	85	115	0	0		
Selenium	210	4.00	200	0	105	85	115	0	0		
Silver	4.7	1.00	5	0	94	85	115	0	0		

Sample ID: **LCS-21276**	SampType: **LCS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP_040802E**
Client ID: **ZZZZZ**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	212	0.50	200	0	106	85	115	0	0		
Cadmium	5.21	0.20	5	0	104	85	115	0	0		
Lead	51.9	4.00	50	0	104	85	115	0	0		
Selenium	207	4.00	200	0	104	85	115	0	0		
Silver	4.95	1.00	5	0	99	85	115	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: LCS-21276	SampType: LCS	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/30/04	Run ID: ICP 2_040803A
Client ID: ZZZZZ	Batch ID: 21276	TestNo: SW6010B		Analysis Date: 8/3/04	SeqNo: 808066

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	194	2.50	200	0	97	85	115	0	0		
Lead	49.6	4.00	50	0	99.2	85	115	0	0		

Sample ID: LCS-21275	SampType: LCS	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/30/04	Run ID: ICP 2_040803A
Client ID: ZZZZZ	Batch ID: 21275	TestNo: SW6010B		Analysis Date: 8/3/04	SeqNo: 808094

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	194	2.50	200	0	97	85	115	0	0		

Sample ID: LCS-21219	SampType: LCS	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/27/04	Run ID: ICP 2_040804A
Client ID: ZZZZZ	Batch ID: 21219	TestNo: SW6010B		Analysis Date: 8/4/04	SeqNo: 808848

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	211	2.50	200	0	106	85	115	0	0		

Sample ID: 04070635-008AMS	SampType: MS	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/27/04	Run ID: ICP 2_040802B
Client ID: B559-8D (7-8')	Batch ID: 21219	TestNo: SW6010B		Analysis Date: 8/2/04	SeqNo: 807654

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	44.4	0.94	18.9	24.2	107	75	125	0	0		

Sample ID: 04070635-030AMS	SampType: MS	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/30/04	Run ID: ICP 2_040802B
Client ID: B509-8 (7-8')	Batch ID: 21275	TestNo: SW6010B		Analysis Date: 8/2/04	SeqNo: 807673

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	35.3	0.98	19.6	16.8	94.4	75	125	0	0		

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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **04070635-031AMS**	SampType: **MS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040802B**
Client ID: **B509-8D (7-8')**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	38.1	1.00	20	20	90.5	75	125	0	0		

Sample ID: **04070635-036AMS**	SampType: **MS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040802B**
Client ID: **B507-19 (18-19')**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.8	0.94	18.9	2.49	86.3	75	125	0	0		

Sample ID: **04070635-030AMS**	SampType: **MS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP_040802E**
Client ID: **B509-8 (7-8')**	Batch ID: **21275**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	307	0.49	196	117	96.9	75	125	0	0		
Cadmium	5.32	0.20	4.9	0	109	75	125	0	0		
Lead	63.8	3.92	49	13.8	102	75	125	0	0		
Selenium	186	3.92	196	0	94.9	75	125	0	0		
Silver	4.54	0.98	4.9	0	92.7	75	125	0	0		

Sample ID: **04070635-008AMS**	SampType: **MS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/27/04**	Run ID: **ICP_040802E**
Client ID: **B559-8D (7-8')**	Batch ID: **21219**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807745**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	341	0.47	189	147	103	75	125	0	0		
Cadmium	5.36	0.19	4.72	0.44	104	75	125	0	0		
Lead	66.4	3.77	47.2	20.6	97	75	125	0	0		
Selenium	167	3.77	189	0	88.4	75	125	0	0		
Silver	4.23	0.94	4.72	0	89.6	75	125	0	0		

Qualifiers:
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **04070635-031AMS**	SampType: **MS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP_040802E**
Client ID: **B509-8D (7-8')**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	366	0.50	200	165	101	75	125	0	0		
Cadmium	5.49	0.20	5	0.33	103	75	125	0	0		
Lead	68.5	4.00	50	19.1	98.8	75	125	0	0		
Selenium	181	4.00	200	0	90.5	75	125	0	0		
Silver	5.65	1.00	5	0	113	75	125	0	0		

Sample ID: **04070635-036AMS**	SampType: **MS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP_040802E**
Client ID: **B507-19 (18-19')**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/2/04**	SeqNo: **807762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	201	0.47	189	4.88	104	75	125	0	0		
Cadmium	4.76	0.19	4.72	0	101	75	125	0	0		
Lead	48.2	3.77	47.2	0	102	75	125	0	0		
Selenium	170	3.77	189	0	89.9	75	125	0	0		
Silver	4.51	0.94	4.72	0	95.6	75	125	0	0		

Sample ID: **04070635-031AMS**	SampType: **MS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040803A**
Client ID: **B509-8D (7-8')**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/3/04**	SeqNo: **808073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	198	2.50	200	16.5	90.8	75	125	0	0		

Sample ID: **04070635-036AMS**	SampType: **MS**	TestCode: **M_SOLIDS_ICP**	Units: **mg/Kg-dry**	Prep Date: **7/30/04**	Run ID: **ICP 2_040803A**
Client ID: **B507-19 (18-19')**	Batch ID: **21276**	TestNo: **SW6010B**		Analysis Date: **8/3/04**	SeqNo: **808082**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	188	2.36	189	0	99.5	75	125	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: 04070635-030AMS	SampType: MS	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/30/04	Run ID: ICP 2_040803A
Client ID: B509-8 (7-8')	Batch ID: 21275	TestNo: SW6010B		Analysis Date: 8/3/04	SeqNo: 808100

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	196	2.45	196	12.7	93.5	75	125	0	0		

Sample ID: 04070635-008AMS	SampType: MS	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/27/04	Run ID: ICP 2_040804A
Client ID: B559-8D (7-8')	Batch ID: 21219	TestNo: SW6010B		Analysis Date: 8/4/04	SeqNo: 808852

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	196	2.36	189	8.95	99	75	125	0	0		

Sample ID: 04070635-008ADUP	SampType: DUP	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/27/04	Run ID: ICP 2_040802B
Client ID: B559-8D (7-8')	Batch ID: 21219	TestNo: SW6010B		Analysis Date: 8/2/04	SeqNo: 807653

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	23.9	0.94	0	0	0	0	0	24.2	1.25	15	

Sample ID: 04070635-030ADUP	SampType: DUP	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/30/04	Run ID: ICP 2_040802B
Client ID: B509-8 (7-8')	Batch ID: 21275	TestNo: SW6010B		Analysis Date: 8/2/04	SeqNo: 807672

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	17.3	0.98	0	0	0	0	0	16.8	2.93	15	

Sample ID: 04070635-031ADUP	SampType: DUP	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/30/04	Run ID: ICP 2_040802B
Client ID: B509-8D (7-8')	Batch ID: 21276	TestNo: SW6010B		Analysis Date: 8/2/04	SeqNo: 807677

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.2	1.00	0	0	0	0	0	20	0.995	15	

Sample ID: 04070635-036ADUP	SampType: DUP	TestCode: M_SOLIDS_ICP	Units: mg/Kg-dry	Prep Date: 7/30/04	Run ID: ICP 2_040802B
Client ID: B507-19 (18-19')	Batch ID: 21276	TestNo: SW6010B		Analysis Date: 8/2/04	SeqNo: 807683

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **04070635-036ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP 2_040802B**
Client ID: **B507-19 (18-19')** Batch ID: **21276** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.75	0.94	0	0	0	0	0	2.49	9.93	15	

Sample ID: **04070635-030ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP_040802E**
Client ID: **B509-8 (7-8')** Batch ID: **21275** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	109	0.49	0	0	0	0	0	117	7.08	15	
Cadmium	0.11	0.20	0	0	0	0	0	0.1	0	15	J
Lead	14.4	3.92	0	0	0	0	0	13.8	4.26	15	
Selenium	< 3.92	3.92	0	0	0	0	0	0	0	15	
Silver	< 0.98	0.98	0	0	0	0	0	0	0	15	

Sample ID: **04070635-008ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP_040802E**
Client ID: **B559-8D (7-8')** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807744**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	151	0.47	0	0	0	0	0	147	2.69	15	
Cadmium	0.44	0.19	0	0	0	0	0	0.44	0	15	
Lead	20.4	3.77	0	0	0	0	0	20.6	0.976	15	
Selenium	< 3.77	3.77	0	0	0	0	0	0	0	15	
Silver	< 0.94	0.94	0	0	0	0	0	0	0	15	

Sample ID: **04070635-031ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP_040802E**
Client ID: **B509-8D (7-8')** Batch ID: **21276** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807755**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	165	0.50	0	0	0	0	0	165	0	15	
Cadmium	0.32	0.20	0	0	0	0	0	0.33	3.08	15	
Lead	18.7	4.00	0	0	0	0	0	19.1	2.11	15	
Selenium	< 4.00	4.00	0	0	0	0	0	0	0	15	
Silver	< 1.00	1.00	0	0	0	0	0	0	0	15	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: **04070635-036ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP_040802E**
Client ID: **B507-19 (18-19')** Batch ID: **21276** TestNo: **SW6010B** Analysis Date: **8/2/04** SeqNo: **807761**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	4.71	0.47	0	0	0	0	0	4.88	3.55	15	
Cadmium	< 0.19	0.19	0	0	0	0	0	0	0	15	
Lead	3.6	3.77	0	0	0	0	0	3.22	0	15	J
Selenium	< 3.77	3.77	0	0	0	0	0	0	0	15	
Silver	< 0.94	0.94	0	0	0	0	0	0	0	15	

Sample ID: **04070635-031ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP 2_040803A**
Client ID: **B509-8D (7-8')** Batch ID: **21276** TestNo: **SW6010B** Analysis Date: **8/3/04** SeqNo: **808072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.3	2.50	0	0	0	0	0	16.5	14.3	15	

Sample ID: **04070635-036ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP 2_040803A**
Client ID: **B507-19 (18-19')** Batch ID: **21276** TestNo: **SW6010B** Analysis Date: **8/3/04** SeqNo: **808084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.36	2.36	0	0	0	0	0	0	0	15	

Sample ID: **04070635-030ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/30/04** Run ID: **ICP 2_040803A**
Client ID: **B509-8 (7-8')** Batch ID: **21275** TestNo: **SW6010B** Analysis Date: **8/3/04** SeqNo: **808099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.6	2.45	0	0	0	0	0	12.7	9.04	15	

Sample ID: **04070635-008ADUP** SampType: **DUP** TestCode: **M_SOLIDS_ICP** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **ICP 2_040804A**
Client ID: **B559-8D (7-8')** Batch ID: **21219** TestNo: **SW6010B** Analysis Date: **8/4/04** SeqNo: **808861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.21	2.36	0	0	0	0	0	8.95	2.86	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S

Sample ID: **MB-21215**	SampType: **MBlk**	TestCode: **SV_8270S_S**	Units: **mg/Kg**	Prep Date: **7/27/04**	Run ID: **5971 INST. B_040729A**
Client ID: **ZZZZZ**	Batch ID: **21215**	TestNo: **SW8270C**		Analysis Date: **7/29/04**	SeqNo: **805078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
2-Chlorophenol	ND	0.500									
Bis(2-chloroethyl)ether	ND	0.500									
Bis(2-ethylhexyl)phthalate	ND	0.350									
Butyl benzyl phthalate	ND	0.350									
Di-n-butyl phthalate	ND	0.350									
Di-n-octyl phthalate	ND	0.350									
Diethyl phthalate	ND	0.500									
Hexachlorocyclopentadiene	ND	0.350									
Isophorone	ND	0.350									
Nitrobenzene	ND	0.500									
Surr: 2,4,6-Tribromophenol	2.7	0	3.33	0	81.1	57.7	123	0	0		
Surr: 2-Fluorobiphenyl	1.31	0	1.67	0	78.4	44.3	113	0	0		
Surr: 2-Fluorophenol	2.33	0	3.33	0	70	50.2	94.8	0	0		
Surr: Nitrobenzene-d5	1.17	0	1.67	0	70.1	39.9	103	0	0		
Surr: p-Terphenyl-d14	1.46	0	1.67	0	87.4	67	118	0	0		
Surr: Phenol-d5	2.72	0	3.33	0	81.7	57.9	103	0	0		

Sample ID: **LCS-21215**	SampType: **LCS**	TestCode: **SV_8270S_S**	Units: **mg/Kg**	Prep Date: **7/27/04**	Run ID: **5971 INST. B_040729A**
Client ID: **ZZZZZ**	Batch ID: **21215**	TestNo: **SW8270C**		Analysis Date: **7/29/04**	SeqNo: **805073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.36	0.500	1.67	0	81.4	51.1	92.8	0	0		
2-Chlorophenol	2.37	0.500	3.33	0	71.2	44	102	0	0		
Surr: 2,4,6-Tribromophenol	2.76	0	3.33	0	82.9	41.5	127	0	0		
Surr: 2-Fluorobiphenyl	1.4	0	1.67	0	83.8	25.8	121	0	0		
Surr: 2-Fluorophenol	2.44	0	3.33	0	73.3	26.8	110	0	0		
Surr: Nitrobenzene-d5	1.25	0	1.67	0	74.9	13.3	117	0	0		
Surr: p-Terphenyl-d14	1.49	0	1.67	0	89.2	48.9	134	0	0		
Surr: Phenol-d5	2.79	0	3.33	0	83.8	49.9	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S

Sample ID: **04070635-017AMS** SampType: **MS** TestCode: **SV_8270S_S** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **5971 INST. B_040730A**
Client ID: **B557-12 (11-12')** Batch ID: **21215** TestNo: **SW8270C** Analysis Date: **7/30/04** SeqNo: **806499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3.71	1.25	4.18	0	88.8	11.6	99.3	0	0		
2-Chlorophenol	6.36	1.25	8.33	0	76.4	26.7	106	0	0		
Surr: 2,4,6-Tribromophenol	6.8	0	8.33	0	81.6	31	123	0	0		
Surr: 2-Fluorobiphenyl	3.38	0	4.18	0	80.9	14.6	132	0	0		
Surr: 2-Fluorophenol	6.22	0	8.33	0	74.7	27	111	0	0		
Surr: Nitrobenzene-d5	3.18	0	4.18	0	76.1	28.9	113	0	0		
Surr: p-Terphenyl-d14	3.59	0	4.18	0	85.9	25	144	0	0		
Surr: Phenol-d5	7.13	0	8.33	0	85.6	33.7	123	0	0		

Sample ID: **04070635-017AMSD** SampType: **MSD** TestCode: **SV_8270S_S** Units: **mg/Kg-dry** Prep Date: **7/27/04** Run ID: **5971 INST. B_040730A**
Client ID: **B557-12 (11-12')** Batch ID: **21215** TestNo: **SW8270C** Analysis Date: **7/30/04** SeqNo: **806500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3.58	1.20	4.01	0	89.3	11.6	99.3	3.71	3.57	40	
2-Chlorophenol	6.25	1.20	7.99	0	78.2	26.7	106	6.36	1.74	40	
Surr: 2,4,6-Tribromophenol	6.49	0	7.99	0	81.2	31	123	0	0	40	
Surr: 2-Fluorobiphenyl	3.05	0	4.01	0	76.1	14.6	132	0	0	40	
Surr: 2-Fluorophenol	5.96	0	7.99	0	74.6	27	111	0	0	40	
Surr: Nitrobenzene-d5	2.97	0	4.01	0	74.1	28.9	113	0	0	40	
Surr: p-Terphenyl-d14	3.35	0	4.01	0	83.5	25	144	0	0	40	
Surr: Phenol-d5	6.96	0	7.99	0	87.1	33.7	123	0	0	40	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: **MB-21226**	SampType: **MBLK**	TestCode: **SV_8270S_S_SIM**	Units: **mg/Kg**	Prep Date: **7/28/04**	Run ID: **5972 INST. M_040728A**
Client ID: **ZZZZZ**	Batch ID: **21226**	TestNo: **SW8270C**		Analysis Date: **7/28/04**	SeqNo: **804519**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.100									
Acenaphthylene	ND	0.100									
Anthracene	ND	0.100									
Benzo(a)anthracene	ND	0.100									
Benzo(a)pyrene	ND	0.100									
Benzo(b)fluoranthene	ND	0.100									
Benzo(g,h,i)perylene	ND	0.100									
Benzo(k)fluoranthene	ND	0.100									
Chrysene	ND	0.100									
Dibenzo(a,h)anthracene	ND	0.100									
Fluoranthene	ND	0.100									
Fluorene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	0.100									
Naphthalene	ND	0.100									
Phenanthrene	ND	0.100									
Pyrene	ND	0.100									
Surr: 2-Fluorobiphenyl	0.127	0	0.167	0	76	17.5	123	0	0		
Surr: Nitrobenzene-d5	0.096	0	0.167	0	57.5	35	105	0	0		
Surr: p-Terphenyl-d14	0.144	0	0.167	0	86.2	53.6	122	0	0		

Sample ID: **MB-21238**	SampType: **MBLK**	TestCode: **SV_8270S_S_SIM**	Units: **mg/Kg**	Prep Date: **7/28/04**	Run ID: **5972 INST. M_040729B**
Client ID: **ZZZZZ**	Batch ID: **21238**	TestNo: **SW8270C**		Analysis Date: **7/29/04**	SeqNo: **805253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.100									
Acenaphthylene	ND	0.100									
Anthracene	ND	0.100									
Benzo(a)anthracene	ND	0.100									
Benzo(a)pyrene	ND	0.100									
Benzo(b)fluoranthene	ND	0.100									
Benzo(g,h,i)perylene	ND	0.100									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: **MB-21238** SampType: **MBLK** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg** Prep Date: **7/28/04** Run ID: **5972 INST. M_040729B**
Client ID: **ZZZZZ** Batch ID: **21238** TestNo: **SW8270C** Analysis Date: **7/29/04** SeqNo: **805253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	ND	0.100									
Chrysene	ND	0.100									
Dibenzo(a,h)anthracene	ND	0.100									
Fluoranthene	ND	0.100									
Fluorene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	0.100									
Naphthalene	0.015	0.100									J
Phenanthrene	ND	0.100									
Pyrene	ND	0.100									
Surr: 2-Fluorobiphenyl	0.115	0	0.167	0	68.9	17.5	123	0	0		
Surr: Nitrobenzene-d5	0.094	0	0.167	0	56.3	35	105	0	0		
Surr: p-Terphenyl-d14	0.131	0	0.167	0	78.4	53.6	122	0	0		

Sample ID: **LCS-21226** SampType: **LCS** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg** Prep Date: **7/28/04** Run ID: **5972 INST. M_040728A**
Client ID: **ZZZZZ** Batch ID: **21226** TestNo: **SW8270C** Analysis Date: **7/28/04** SeqNo: **804520**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.114	0.100	0.167	0	68.3	56.3	115	0	0		
Acenaphthylene	0.137	0.100	0.167	0	82	60.3	143	0	0		
Anthracene	0.132	0.100	0.167	0	79	52.1	109	0	0		
Benzo(a)anthracene	0.13	0.100	0.167	0	77.8	52.8	112	0	0		
Benzo(a)pyrene	0.153	0.100	0.167	0	91.6	40.8	127	0	0		
Benzo(b)fluoranthene	0.166	0.100	0.167	0	99.4	50.1	150	0	0		
Benzo(g,h,i)perylene	0.152	0.100	0.167	0	91	52.8	145	0	0		
Benzo(k)fluoranthene	0.148	0.100	0.167	0	88.6	52	153	0	0		
Chrysene	0.154	0.100	0.167	0	92.2	60.8	128	0	0		
Dibenzo(a,h)anthracene	0.165	0.100	0.167	0	98.8	54.9	150	0	0		
Fluoranthene	0.147	0.100	0.167	0	88	58.7	125	0	0		
Fluorene	0.136	0.100	0.167	0	81.4	57.8	125	0	0		
Indeno(1,2,3-cd)pyrene	0.144	0.100	0.167	0	86.2	52	147	0	0		
Naphthalene	0.126	0.100	0.167	0	75.4	54.8	113	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: **LCS-21226**	SampType: **LCS**	TestCode: **SV_8270S_S_SIM**	Units: **mg/Kg**	Prep Date: **7/28/04**	Run ID: **5972 INST. M_040728A**
Client ID: **ZZZZZ**	Batch ID: **21226**	TestNo: **SW8270C**		Analysis Date: **7/28/04**	SeqNo: **804520**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.132	0.100	0.167	0	79	60.4	121	0	0		
Pyrene	0.148	0.100	0.167	0	88.6	57.9	129	0	0		
Surr: 2-Fluorobiphenyl	0.121	0	0.167	0	72.5	35.3	113	0	0		
Surr: Nitrobenzene-d5	0.125	0	0.167	0	74.9	33.9	108	0	0		
Surr: p-Terphenyl-d14	0.142	0	0.167	0	85	58.4	122	0	0		

Sample ID: **LCS-21238**	SampType: **LCS**	TestCode: **SV_8270S_S_SIM**	Units: **mg/Kg**	Prep Date: **7/28/04**	Run ID: **5972 INST. M_040729B**
Client ID: **ZZZZZ**	Batch ID: **21238**	TestNo: **SW8270C**		Analysis Date: **7/29/04**	SeqNo: **805254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.117	0.100	0.167	0	70.1	56.3	115	0	0		
Acenaphthylene	0.137	0.100	0.167	0	82	60.3	143	0	0		
Anthracene	0.127	0.100	0.167	0	76	52.1	109	0	0		
Benzo(a)anthracene	0.123	0.100	0.167	0	73.7	52.8	112	0	0		
Benzo(a)pyrene	0.143	0.100	0.167	0	85.6	40.8	127	0	0		
Benzo(b)fluoranthene	0.154	0.100	0.167	0	92.2	50.1	150	0	0		
Benzo(g,h,i)perylene	0.162	0.100	0.167	0	97	52.8	145	0	0		
Benzo(k)fluoranthene	0.137	0.100	0.167	0	82	52	153	0	0		
Chrysene	0.147	0.100	0.167	0	88	60.8	128	0	0		
Dibenzo(a,h)anthracene	0.17	0.100	0.167	0	102	54.9	150	0	0		
Fluoranthene	0.142	0.100	0.167	0	85	58.7	125	0	0		
Fluorene	0.132	0.100	0.167	0	79	57.8	125	0	0		
Indeno(1,2,3-cd)pyrene	0.149	0.100	0.167	0	89.2	52	147	0	0		
Naphthalene	0.126	0.100	0.167	0.015	66.5	54.8	113	0	0		
Phenanthrene	0.124	0.100	0.167	0	74.3	60.4	121	0	0		
Pyrene	0.14	0.100	0.167	0	83.8	57.9	129	0	0		
Surr: 2-Fluorobiphenyl	0.115	0	0.167	0	68.9	35.3	113	0	0		
Surr: Nitrobenzene-d5	0.124	0	0.167	0	74.3	33.9	108	0	0		
Surr: p-Terphenyl-d14	0.134	0	0.167	0	80.2	58.4	122	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: **04070635-029AMS** SampType: **MS** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg-dry** Prep Date: **7/28/04** Run ID: **5972 INST. M_040729C**
Client ID: **B509-3 (2-3')** Batch ID: **21238** TestNo: **SW8270C** Analysis Date: **7/30/04** SeqNo: **805344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.36	1.16	0.389	0	350	36	135	0	0		S
Acenaphthylene	2.03	1.16	0.389	1.18	219	17.2	167	0	0		S
Anthracene	4.85	1.16	0.389	0.334	1160	39.3	124	0	0		S
Benzo(a)anthracene	8.43	1.16	0.389	1.47	1790	10	183	0	0		S
Benzo(a)pyrene	12.9	1.16	0.389	3.31	2470	10	204	0	0		S
Benzo(b)fluoranthene	13.8	1.16	0.389	3.46	2660	10.6	178	0	0		S
Benzo(g,h,i)perylene	3.34	1.16	0.389	1.65	434	10	168	0	0		S
Benzo(k)fluoranthene	4.76	1.16	0.389	1.03	959	27.6	181	0	0		S
Chrysene	9.87	1.16	0.389	2.02	2020	10	176	0	0		S
Dibenzo(a,h)anthracene	1.1	1.16	0.389	0.413	189	12.2	156	0	0		JS
Fluoranthene	29.5	1.16	0.389	2.03	7060	10	227	0	0		SE
Fluorene	2	1.16	0.389	0.122	483	35.2	148	0	0		S
Indeno(1,2,3-cd)pyrene	3.39	1.16	0.389	1.4	512	10	164	0	0		S
Naphthalene	0.6	1.16	0.389	0.291	79.9	14.7	128	0	0		J
Phenanthrene	21.2	1.16	0.389	0.818	5240	32.8	143	0	0		SE
Pyrene	25.3	1.16	0.389	3.12	5700	10	180	0	0		SE
Surr: 2-Fluorobiphenyl	0.245	0	0.389	0	63	10	104	0	0		
Surr: Nitrobenzene-d5	0.303	0	0.389	0	77.9	29.8	103	0	0		
Surr: p-Terphenyl-d14	0.291	0	0.389	0	74.8	41.9	125	0	0		

Sample ID: **04070635-002AMS** SampType: **MS** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg-dry** Prep Date: **7/28/04** Run ID: **5972 INST. M_040730B**
Client ID: **B558-7 (6-7')** Batch ID: **21226** TestNo: **SW8270C** Analysis Date: **7/30/04** SeqNo: **806318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	8.95	1.29	0.216	8.14	375	36	135	0	0		S
Acenaphthylene	2.52	1.29	0.216	2.41	50.9	17.2	167	0	0		
Anthracene	7.45	1.29	0.216	6.82	292	39.3	124	0	0		S
Benzo(a)anthracene	3.48	1.29	0.216	3.21	125	10	183	0	0		
Benzo(a)pyrene	3.92	1.29	0.216	3.49	199	10	204	0	0		
Benzo(b)fluoranthene	3.08	1.29	0.216	2.76	148	10.6	178	0	0		
Benzo(g,h,i)perylene	1	1.29	0.216	0.926	48.1	10	168	0	0		J

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: **04070635-002AMS** SampType: **MS** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg-dry** Prep Date: **7/28/04** Run ID: **5972 INST. M_040730B**
Client ID: **B558-7 (6-7')** Batch ID: **21226** TestNo: **SW8270C** Analysis Date: **7/30/04** SeqNo: **806318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	1.1	1.29	0.216	0.82	111	27.6	181	0	0		J
Chrysene	3.53	1.29	0.216	3.14	181	10	176	0	0		S
Dibenzo(a,h)anthracene	0.39	1.29	0.216	0.361	12.5	12.2	156	0	0		J
Fluoranthene	7.9	1.29	0.216	7.34	259	10	227	0	0		S
Fluorene	7.54	1.29	0.216	8.87	-616	35.2	148	0	0		S
Indeno(1,2,3-cd)pyrene	0.99	1.29	0.216	0.858	59.7	10	164	0	0		J
Naphthalene	0.2	1.29	0.216	0	94	14.7	128	0	0		J
Pyrene	12.4	1.29	0.216	11.5	417	10	180	0	0		S
Surr: 2-Fluorobiphenyl	0.147	0	0.216	0	68.1	10	104	0	0		
Surr: Nitrobenzene-d5	0.16	0	0.216	0	74.1	29.8	103	0	0		
Surr: p-Terphenyl-d14	0.147	0	0.216	0	68.1	41.9	125	0	0		

Sample ID: **04070635-002AMS** SampType: **MS** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg-dry** Prep Date: **7/28/04** Run ID: **5972 INST. M_040802A**
Client ID: **B558-7 (6-7')** Batch ID: **21226** TestNo: **SW8270C** Analysis Date: **8/2/04** SeqNo: **807269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	19.9	3.23	0.216	21.6	-787	32.8	143	0	0		S

Sample ID: **04070635-029AMSD** SampType: **MSD** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg-dry** Prep Date: **7/28/04** Run ID: **5972 INST. M_040729C**
Client ID: **B509-3 (2-3')** Batch ID: **21238** TestNo: **SW8270C** Analysis Date: **7/30/04** SeqNo: **805345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.28	1.19	0.396	0	70.7	36	135	1.36	0	49.7	J
Acenaphthylene	1.62	1.19	0.396	1.18	111	17.2	167	2.03	22.4	33.3	
Anthracene	0.62	1.19	0.396	0.334	73.2	39.3	124	4.85	0	51.1	J
Benzo(a)anthracene	1.91	1.19	0.396	1.47	111	10	183	8.43	126	40.6	R
Benzo(a)pyrene	5.05	1.19	0.396	3.31	439	10	204	12.9	87.5	56.4	SR
Benzo(b)fluoranthene	4.65	1.19	0.396	3.46	301	10.6	178	13.8	99.2	49.7	SR
Benzo(g,h,i)perylene	2.26	1.19	0.396	1.65	154	10	168	3.34	38.6	36.5	R
Benzo(k)fluoranthene	1.78	1.19	0.396	1.03	189	27.6	181	4.76	91.2	42.6	SR
Chrysene	2.41	1.19	0.396	2.02	98.5	10	176	9.87	121	45.1	R

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: **04070635-029AMSD** SampType: **MSD** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg-dry** Prep Date: **7/28/04** Run ID: **5972 INST. M_040729C**
Client ID: **B509-3 (2-3')** Batch ID: **21238** TestNo: **SW8270C** Analysis Date: **7/30/04** SeqNo: **805345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenzo(a,h)anthracene	0.95	1.19	0.396	0.413	135	12.2	156	1.15	0	39.9	J
Fluoranthene	2.32	1.19	0.396	2.03	73.2	10	227	29.5	171	66.2	R
Fluorene	0.41	1.19	0.396	0.122	72	35.2	148	2	0	65.6	J
Indeno(1,2,3-cd)pyrene	2	1.19	0.396	1.4	152	10	164	3.39	51.6	36.5	R
Naphthalene	0.42	1.19	0.396	0.291	33.3	14.7	128	0.602	0	39.6	J
Phenanthrene	1	1.19	0.396	0.818	48.5	32.8	143	21.2	0	35.4	J
Pyrene	3.65	1.19	0.396	3.12	134	10	180	25.3	150	60.1	R
Surr: 2-Fluorobiphenyl	0.253	0	0.396	0	63.9	10	104	0	0	40	
Surr: Nitrobenzene-d5	0.296	0	0.396	0	74.7	29.8	103	0	0	40	
Surr: p-Terphenyl-d14	0.284	0	0.396	0	71.7	41.9	125	0	0	40	

Sample ID: **04070635-002AMSD** SampType: **MSD** TestCode: **SV_8270S_S_SIM** Units: **mg/Kg-dry** Prep Date: **7/28/04** Run ID: **5972 INST. M_040730B**
Client ID: **B558-7 (6-7')** Batch ID: **21226** TestNo: **SW8270C** Analysis Date: **7/30/04** SeqNo: **806319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	10.1	1.29	0.215	8.14	912	36	135	8.95	12.1	49.7	S
Acenaphthylene	2.77	1.29	0.215	2.41	167	17.2	167	2.52	9.44	33.3	S
Anthracene	8.66	1.29	0.215	6.82	856	39.3	124	7.45	15.0	51.1	S
Benzo(a)anthracene	4.26	1.29	0.215	3.21	488	10	183	3.48	20.2	40.6	S
Benzo(a)pyrene	4.56	1.29	0.215	3.49	498	10	204	3.92	15.1	56.4	S
Benzo(b)fluoranthene	3.5	1.29	0.215	2.76	344	10.6	178	3.08	12.8	49.7	S
Benzo(g,h,i)perylene	1.2	1.29	0.215	0.926	113	10	168	1.03	0	36.5	J
Benzo(k)fluoranthene	1.1	1.29	0.215	0.82	135	27.6	181	1.06	0	42.6	J
Chrysene	3.79	1.29	0.215	3.14	302	10	176	3.53	7.10	45.1	S
Dibenzo(a,h)anthracene	0.43	1.29	0.215	0.361	30.2	12.2	156	0.388	0	39.9	J
Fluoranthene	9.28	1.29	0.215	7.34	902	10	227	7.9	16.1	66.2	S
Fluorene	6.58	1.29	0.215	8.87	-1070	35.2	148	7.54	13.6	65.6	S
Indeno(1,2,3-cd)pyrene	1.1	1.29	0.215	0.858	122	10	164	0.987	0	36.5	J
Naphthalene	0.21	1.29	0.215	0	98.1	14.7	128	0.203	0	39.6	J
Pyrene	14.6	1.29	0.215	11.5	1440	10	180	12.4	16.3	60.1	S
Surr: 2-Fluorobiphenyl	0.151	0	0.215	0	70.2	10	104	0	0	40	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: **04070635-002AMSD**	SampType: **MSD**	TestCode: **SV_8270S_S_SIM**	Units: **mg/Kg-dry**	Prep Date: **7/28/04**	Run ID: **5972 INST. M_040730B**
Client ID: **B558-7 (6-7')**	Batch ID: **21226**	TestNo: **SW8270C**		Analysis Date: **7/30/04**	SeqNo: **806319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.155	0	0.215	0	72.1	29.8	103	0	0	40	
Surr: p-Terphenyl-d14	0.146	0	0.215	0	67.9	41.9	125	0	0	40	

Sample ID: **04070635-002AMSD**	SampType: **MSD**	TestCode: **SV_8270S_S_SIM**	Units: **mg/Kg-dry**	Prep Date: **7/28/04**	Run ID: **5972 INST. M_040802A**
Client ID: **B558-7 (6-7')**	Batch ID: **21226**	TestNo: **SW8270C**		Analysis Date: **8/2/04**	SeqNo: **807270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	23.1	3.23	0.215	21.6	698	32.8	143	19.9	14.9	35.4	S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_ALC_S

Sample ID: **MB-072904**	SampType: **MBLK**	TestCode: **SV_ALC_S**	Units: **mg/Kg**	Prep Date:	Run ID: **GC INST. L_040730A**
Client ID: **ZZZZZ**	Batch ID: **R54192**	TestNo: **SW8015M**		Analysis Date: **7/30/04**	SeqNo: **806754**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butanol	ND	10									

Sample ID: **LCS-072904**	SampType: **LCS**	TestCode: **SV_ALC_S**	Units: **mg/Kg**	Prep Date:	Run ID: **GC INST. L_040730A**
Client ID: **ZZZZZ**	Batch ID: **R54192**	TestNo: **SW8015M**		Analysis Date: **7/30/04**	SeqNo: **806755**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butanol	57	10	50	0	114	50	150	0	0		

Sample ID: **04070635-022AMS**	SampType: **MS**	TestCode: **SV_ALC_S**	Units: **mg/Kg-dry**	Prep Date:	Run ID: **GC INST. L_040730A**
Client ID: **B556-28 (27-28')**	Batch ID: **R54192**	TestNo: **SW8015M**		Analysis Date: **7/30/04**	SeqNo: **806763**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butanol	46	11	55	0	83.6	50	150	0	0		

Sample ID: **04070635-022AMSD**	SampType: **MSD**	TestCode: **SV_ALC_S**	Units: **mg/Kg-dry**	Prep Date:	Run ID: **GC INST. L_040730A**
Client ID: **B556-28 (27-28')**	Batch ID: **R54192**	TestNo: **SW8015M**		Analysis Date: **7/30/04**	SeqNo: **806762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butanol	48	11	55	0	87.3	50	150	46	4.27	25	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_OA2_S

Sample ID: **MB-21196**	SampType: **MBLK**	TestCode: **SV_OA2_S**	Units: **mg/Kg**	Prep Date: **7/26/04**	Run ID: **8015 INST. D_040726A**
Client ID: **ZZZZZ**	Batch ID: **21196**	TestNo: **SW8015M/OA2**		Analysis Date: **7/26/04**	SeqNo: **802798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	5.00									
Kerosene	ND	5.00									
Mineral Spirits	ND	5.00									
Motor Oil	ND	5.00									
Surr: n-Tetracontane	0.67	0	0.67	0	100	59.5	122	0	0		

Sample ID: **LCS-21196**	SampType: **LCS**	TestCode: **SV_OA2_S**	Units: **mg/Kg**	Prep Date: **7/26/04**	Run ID: **8015 INST. D_040726A**
Client ID: **ZZZZZ**	Batch ID: **21196**	TestNo: **SW8015M/OA2**		Analysis Date: **7/26/04**	SeqNo: **802799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	9.84	5.00	16.7	0	58.9	45.8	131	0	0		
Surr: n-Tetracontane	0.65	0	0.67	0	97	58	130	0	0		

Sample ID: **04070635-017AMS**	SampType: **MS**	TestCode: **SV_OA2_S**	Units: **mg/Kg-dry**	Prep Date: **7/26/04**	Run ID: **8015 INST. D_040728A**
Client ID: **B557-12 (11-12')**	Batch ID: **21196**	TestNo: **SW8015M/OA2**		Analysis Date: **7/27/04**	SeqNo: **803260**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	575 #	62.2	20.8	467	519	20.3	167	0	0		S
Surr: n-Tetracontane	0.46	0	0.83	0	55.4	53.9	153	0	0		

Sample ID: **04070635-017AMSD**	SampType: **MSD**	TestCode: **SV_OA2_S**	Units: **mg/Kg-dry**	Prep Date: **7/26/04**	Run ID: **8015 INST. D_040728A**
Client ID: **B557-12 (11-12')**	Batch ID: **21196**	TestNo: **SW8015M/OA2**		Analysis Date: **7/27/04**	SeqNo: **803261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	724 #	61.9	20.7	467	1240	20.3	167	575	22.9	34	S
Surr: n-Tetracontane	0.57	0	0.83	0	68.7	53.9	153	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_S

Sample ID: **MBLK-F040731-1**	SampType: **MBLK**	TestCode: **V_8260S_S**	Units: **µg/Kg**	Prep Date: **7/31/04**	Run ID: **5972 INST. F_040731B**
Client ID: **ZZZZZ**	Batch ID: **21288**	TestNo: **SW8260B**		Analysis Date: **7/31/04**	SeqNo: **806243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
Acetone	20	50.0									J
Benzene	ND	1.0									
Bromochloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
Carbon disulfide	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroform	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	4.0									
Dibromochloromethane	ND	5.0									
Ethylbenzene	ND	5.0									
m,p-Xylenes	ND	5.0									
Methyl tert-butyl ether	ND	2.0									
Methylene chloride	1.9	5.0									J
o-Xylene	ND	5.0									
Styrene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
trans-1,3-Dichloropropene	ND	4.0									
Trichloroethene	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_S

Sample ID: **MBLK-F040731-1**	SampType: **MBLK**	TestCode: **V_8260S_S**	Units: **µg/Kg**	Prep Date: **7/31/04**	Run ID: **5972 INST. F_040731B**
Client ID: **ZZZZZ**	Batch ID: **21288**	TestNo: **SW8260B**		Analysis Date: **7/31/04**	SeqNo: **806243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	ND	50.0									
Vinyl chloride	ND	2.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	52.4	0	50	0	105	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	47.8	0	50	0	95.6	75.6	120	0	0		
Surr: Dibromofluoromethane	51.8	0	50	0	104	74.1	121	0	0		
Surr: Toluene-d8	50.2	0	50	0	100	82.8	112.8	0	0		

Sample ID: **MBLK-F040801-1**	SampType: **MBLK**	TestCode: **V_8260S_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801B**
Client ID: **ZZZZZ**	Batch ID: **21301**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806487**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	5.0									
m,p-Xylenes	ND	5.0									
o-Xylene	ND	5.0									
Xylenes, Total	1	5.0									J
Surr: 1,2-Dichloroethane-d4	49	0	50	0	98	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	49.6	0	50	0	99.2	75.6	120	0	0		
Surr: Dibromofluoromethane	50.2	0	50	0	100	74.1	121	0	0		
Surr: Toluene-d8	50.1	0	50	0	100	82.8	112.8	0	0		

Sample ID: **LCS-F040731-1**	SampType: **LCS**	TestCode: **V_8260S_S**	Units: **µg/Kg**	Prep Date: **7/31/04**	Run ID: **5972 INST. F_040731B**
Client ID: **ZZZZZ**	Batch ID: **21288**	TestNo: **SW8260B**		Analysis Date: **7/31/04**	SeqNo: **806242**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	48.1	5.0	50	0	96.2	81.8	129	0	0		
1,1-Dichloroethene	55.3	5.0	50	0	111	68.6	145	0	0		
1,2-Dibromoethane	51.6	5.0	50	0	103	70	130	0	0		
1,2-Dichloroethane	49.6	5.0	50	0	99.2	83.5	127	0	0		
Benzene	51.9	1.0	50	0	104	84.2	125	0	0		
Carbon tetrachloride	47.3	5.0	50	0	94.6	77.8	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_S

Sample ID: **LCS-F040731-1** SampType: **LCS** TestCode: **V_8260S_S** Units: **µg/Kg** Prep Date: **7/31/04** Run ID: **5972 INST. F_040731B**
Client ID: **ZZZZZ** Batch ID: **21288** TestNo: **SW8260B** Analysis Date: **7/31/04** SeqNo: **806242**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	50.4	5.0	50	0	101	86.1	127	0	0		
Chloroform	52.2	5.0	50	0	104	83.4	126	0	0		
Dibromochloromethane	51.6	5.0	50	0	103	80.7	131	0	0		
Ethylbenzene	51	5.0	50	0	102	84.7	127	0	0		
m,p-Xylenes	50.4	5.0	50	0	101	83.3	131	0	0		
Methyl tert-butyl ether	50.1	2.0	50	0	100	70	130	0	0		
Methylene chloride	60.2	5.0	50	1.9	117	67.5	135	0	0		
o-Xylene	50	5.0	50	0	100	85.5	129	0	0		
Tetrachloroethene	47.1	5.0	50	0	94.2	74	129	0	0		
Toluene	51.5	5.0	50	0	103	84	126	0	0		
Trichloroethene	50.4	5.0	50	0	101	82.3	127	0	0		
Xylenes, Total	100	5.0	100	0	100	83.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	51.3	0	50	0	103	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	47.6	0	50	0	95.2	75.6	120	0	0		
Surr: Dibromofluoromethane	51.7	0	50	0	103	74.1	121	0	0		
Surr: Toluene-d8	49.9	0	50	0	99.8	82.8	112.8	0	0		

Sample ID: **LCS-F040801-1** SampType: **LCS** TestCode: **V_8260S_S** Units: **µg/Kg** Prep Date: **8/1/04** Run ID: **5972 INST. F_040801B**
Client ID: **ZZZZZ** Batch ID: **21301** TestNo: **SW8260B** Analysis Date: **8/1/04** SeqNo: **806485**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	50.1	5.0	50	0	100	84.7	127	0	0		
m,p-Xylenes	50	5.0	50	0	100	83.3	131	0	0		
o-Xylene	49.7	5.0	50	0	99.4	85.5	129	0	0		
Xylenes, Total	99.7	5.0	100	1	98.7	83.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	47.9	0	50	0	95.8	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	49.4	0	50	0	98.8	75.6	120	0	0		
Surr: Dibromofluoromethane	50.2	0	50	0	100	74.1	121	0	0		
Surr: Toluene-d8	50.1	0	50	0	100	82.8	112.8	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_S

Sample ID: **LCSD-F040731-1**	SampType: **LCSD**	TestCode: **V_8260S_S**	Units: **µg/Kg**	Prep Date: **7/31/04**	Run ID: **5972 INST. F_040731B**
Client ID: **ZZZZZ**	Batch ID: **21288**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	45.4	5.0	50	0	90.8	81.8	129	48.1	5.77	15	
1,1-Dichloroethene	51.3	5.0	50	0	103	68.6	145	55.3	7.50	15	
1,2-Dibromoethane	48.2	5.0	50	0	96.4	70	130	51.6	6.81	15	
1,2-Dichloroethane	46.9	5.0	50	0	93.8	83.5	127	49.6	5.60	15	
Benzene	49.4	1.0	50	0	98.8	84.2	125	51.9	4.93	15	
Carbon tetrachloride	44.1	5.0	50	0	88.2	77.8	130	47.3	7.00	15	
Chlorobenzene	47	5.0	50	0	94	86.1	127	50.4	6.98	15	
Chloroform	49.7	5.0	50	0	99.4	83.4	126	52.2	4.91	15	
Dibromochloromethane	49.4	5.0	50	0	98.8	80.7	131	51.6	4.36	15	
Ethylbenzene	47.8	5.0	50	0	95.6	84.7	127	51	6.48	15	
m,p-Xylenes	47.6	5.0	50	0	95.2	83.3	131	50.4	5.71	15	
Methyl tert-butyl ether	46.6	2.0	50	0	93.2	70	130	50.1	7.24	15	
Methylene chloride	59.5	5.0	50	1.9	115	67.5	135	60.2	1.17	15	
o-Xylene	46.7	5.0	50	0	93.4	85.5	129	50	6.83	15	
Tetrachloroethene	43	5.0	50	0	86	74	129	47.1	9.10	15	
Toluene	48.3	5.0	50	0	96.6	84	126	51.5	6.41	15	
Trichloroethene	47.2	5.0	50	0	94.4	82.3	127	50.4	6.55	15	
Xylenes, Total	94.3	5.0	100	0	94.3	83.3	131	100	5.87	15	
Surr: 1,2-Dichloroethane-d4	52.3	0	50	0	105	72.8	122	0	0	0	
Surr: 4-Bromofluorobenzene	46.8	0	50	0	93.6	75.6	120	0	0	0	
Surr: Dibromofluoromethane	52.3	0	50	0	105	74.1	121	0	0	0	
Surr: Toluene-d8	50	0	50	0	100	82.8	112.8	0	0	0	

Sample ID: **LCSD-F040801-1**	SampType: **LCSD**	TestCode: **V_8260S_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801B**
Client ID: **ZZZZZ**	Batch ID: **21301**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806486**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	49.7	5.0	50	0	99.4	84.7	127	50.1	0.802	15	
m,p-Xylenes	49.4	5.0	50	0	98.8	83.3	131	50	1.21	15	
o-Xylene	49.3	5.0	50	0	98.6	85.5	129	49.7	0.808	15	
Xylenes, Total	98.7	5.0	100	1	97.7	83.3	131	99.7	1.01	15	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_S

Sample ID: **LCSD-F040801-1**	SampType: **LCSD**	TestCode: **V_8260S_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801B**						
Client ID: **ZZZZZ**	Batch ID: **21301**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806486**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	47.8	0	50	0	95.6	72.8	122	0	0	0	
Surr: 4-Bromofluorobenzene	49.4	0	50	0	98.8	75.6	120	0	0	0	
Surr: Dibromofluoromethane	50.4	0	50	0	101	74.1	121	0	0	0	
Surr: Toluene-d8	50.1	0	50	0	100	82.8	112.8	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **LCS-F040729-2**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/29/04**	Run ID: **5972 INST. F_040729C**
Client ID: **ZZZZZ**	Batch ID: **21279**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **805578**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.7	1.0	50	0	99.4	84.2	125	0	0		
Toluene	47.6	5.0	50	0	95.2	84	126	0	0		
Ethylbenzene	46.6	5.0	50	0	93.2	84.7	127	0	0		
Xylenes, Total	91.7	5.0	100	1.1	90.6	83.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	51.2	0	50	0	102	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	48.1	0	50	0	96.2	75.6	120	0	0		
Surr: Dibromofluoromethane	51	0	50	0	102	74.1	121	0	0		
Surr: Toluene-d8	49.9	0	50	0	99.8	82.8	112.8	0	0		

Sample ID: **LCSD-F040729-2**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/29/04**	Run ID: **5972 INST. F_040729C**
Client ID: **ZZZZZ**	Batch ID: **21279**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **805579**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.3	1.0	50	0	103	84.2	125	49.7	3.17	0	
Toluene	48.4	5.0	50	0	96.8	84	126	47.6	1.67	0	
Ethylbenzene	48.2	5.0	50	0	96.4	84.7	127	46.6	3.38	0	
Xylenes, Total	94.2	5.0	100	1.1	93.1	83.3	131	91.7	2.69	0	
Surr: 1,2-Dichloroethane-d4	50.5	0	50	0	101	72.8	122	0	0	0	
Surr: 4-Bromofluorobenzene	48.6	0	50	0	97.2	75.6	120	0	0	0	
Surr: Dibromofluoromethane	50.6	0	50	0	101	74.1	121	0	0	0	
Surr: Toluene-d8	49.5	0	50	0	99	82.8	112.8	0	0	0	

Sample ID: **LCS-F040730-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/30/04**	Run ID: **5972 INST. F_040730A**
Client ID: **ZZZZZ**	Batch ID: **21285**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **806188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.7	1.0	50	0	91.4	84.2	125	0	0		
Toluene	46.2	5.0	50	0	92.4	84	126	0	0		
Ethylbenzene	46	5.0	50	0	92	84.7	127	0	0		
Xylenes, Total	91.4	5.0	100	0	91.4	83.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	46.8	0	50	0	93.6	72.8	122	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **LCS-F040730-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/30/04**	Run ID: **5972 INST. F_040730A**
Client ID: **ZZZZZ**	Batch ID: **21285**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **806188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	50.5	0	50	0	101	75.6	120	0	0		
Surr: Dibromofluoromethane	49.5	0	50	0	99	74.1	121	0	0		
Surr: Toluene-d8	49.8	0	50	0	99.6	82.8	112.8	0	0		

Sample ID: **LCSD-F040730-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/30/04**	Run ID: **5972 INST. F_040730A**
Client ID: **ZZZZZ**	Batch ID: **21285**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **806189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51	1.0	50	0	102	84.2	125	45.7	11.0	0	
Toluene	52	5.0	50	0	104	84	126	46.2	11.8	0	
Ethylbenzene	51.6	5.0	50	0	103	84.7	127	46	11.5	0	
Xylenes, Total	102	5.0	100	0	102	83.3	131	91.4	11.0	0	
Surr: 1,2-Dichloroethane-d4	47.3	0	50	0	94.6	72.8	122	0	0	0	
Surr: 4-Bromofluorobenzene	50.3	0	50	0	101	75.6	120	0	0	0	
Surr: Dibromofluoromethane	49.7	0	50	0	99.4	74.1	121	0	0	0	
Surr: Toluene-d8	49.6	0	50	0	99.2	82.8	112.8	0	0	0	

Sample ID: **LCS-F040731-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/31/04**	Run ID: **5972 INST. F_040731A**
Client ID: **ZZZZZ**	Batch ID: **21288**	TestNo: **SW8260B**		Analysis Date: **7/31/04**	SeqNo: **806237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	50.4	5.0	50	0	101	83.3	131	0	0		
Methyl tert-butyl ether	50.1	2.0	50	0	100	70	130	0	0		
o-Xylene	50	5.0	50	0	100	85.5	129	0	0		
Benzene	51.9	1.0	50	0	104	84.2	125	0	0		
Toluene	51.5	5.0	50	0	103	84	126	0	0		
Ethylbenzene	51	5.0	50	0	102	84.7	127	0	0		
Xylenes, Total	100	5.0	100	0	100	83.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	51.3	0	50	0	103	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	47.6	0	50	0	95.2	75.6	120	0	0		
Surr: Dibromofluoromethane	51.7	0	50	0	103	74.1	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **LCS-F040731-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/31/04**	Run ID: **5972 INST. F_040731A**
Client ID: **ZZZZZ**	Batch ID: **21288**	TestNo: **SW8260B**		Analysis Date: **7/31/04**	SeqNo: **806237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	49.9	0	50	0	99.8	82.8	112.8	0	0		

Sample ID: **LCSD-F040731-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/31/04**	Run ID: **5972 INST. F_040731A**
Client ID: **ZZZZZ**	Batch ID: **21288**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	47.6	5.0	50	0	95.2	83.3	131	50.4	5.71	0	
Methyl tert-butyl ether	46.6	2.0	50	0	93.2	70	130	50.1	7.24	0	
o-Xylene	46.7	5.0	50	0	93.4	85.5	129	50	6.83	0	
Benzene	49.4	1.0	50	0	98.8	84.2	125	51.9	4.93	0	
Toluene	48.3	5.0	50	0	96.6	84	126	51.5	6.41	0	
Ethylbenzene	47.8	5.0	50	0	95.6	84.7	127	51	6.48	0	
Xylenes, Total	94.3	5.0	100	0	94.3	83.3	131	100	5.87	0	
Surr: 1,2-Dichloroethane-d4	52.3	0	50	0	105	72.8	122	0	0	0	
Surr: 4-Bromofluorobenzene	46.8	0	50	0	93.6	75.6	120	0	0	0	
Surr: Dibromofluoromethane	52.3	0	50	0	105	74.1	121	0	0	0	
Surr: Toluene-d8	50	0	50	0	100	82.8	112.8	0	0	0	

Sample ID: **LCS-F040801-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801A**
Client ID: **ZZZZZ**	Batch ID: **21301**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	50	5.0	50	0	100	83.3	131	0	0		
Methyl tert-butyl ether	48.3	2.0	50	0	96.6	70	130	0	0		
o-Xylene	49.7	5.0	50	0	99.4	85.5	129	0	0		
Benzene	50	1.0	50	0	100	84.2	125	0	0		
Toluene	50.9	5.0	50	0	102	84	126	0	0		
Ethylbenzene	50.1	5.0	50	0	100	84.7	127	0	0		
Xylenes, Total	99.7	5.0	100	1	98.7	83.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	47.9	0	50	0	95.8	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	49.4	0	50	0	98.8	75.6	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **LCS-F040801-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801A**
Client ID: **ZZZZZ**	Batch ID: **21301**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	50.2	0	50	0	100	74.1	121	0	0		
Surr: Toluene-d8	50.1	0	50	0	100	82.8	112.8	0	0		

Sample ID: **LCSD-F040801-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801A**
Client ID: **ZZZZZ**	Batch ID: **21301**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	49.4	5.0	50	0	98.8	83.3	131	50	1.21	0	
Methyl tert-butyl ether	48.4	2.0	50	0	96.8	70	130	48.3	0.207	0	
o-Xylene	49.3	5.0	50	0	98.6	85.5	129	49.7	0.808	0	
Benzene	50	1.0	50	0	100	84.2	125	50	0	0	
Toluene	50.5	5.0	50	0	101	84	126	50.9	0.789	0	
Ethylbenzene	49.7	5.0	50	0	99.4	84.7	127	50.1	0.802	0	
Xylenes, Total	98.7	5.0	100	1	97.7	83.3	131	99.7	1.01	0	
Surr: 1,2-Dichloroethane-d4	47.8	0	50	0	95.6	72.8	122	0	0	0	
Surr: 4-Bromofluorobenzene	49.4	0	50	0	98.8	75.6	120	0	0	0	
Surr: Dibromofluoromethane	50.4	0	50	0	101	74.1	121	0	0	0	
Surr: Toluene-d8	50.1	0	50	0	100	82.8	112.8	0	0	0	

Sample ID: **LCS-F040801-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801C**
Client ID: **ZZZZZ**	Batch ID: **21302**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.7	1.0	50	0	95.4	84.2	125	0	0		
Toluene	47.1	5.0	50	1	92.2	84	126	0	0		
Ethylbenzene	45	5.0	50	0	90	84.7	127	0	0		
Xylenes, Total	88.2	5.0	100	1.1	87.1	83.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	49.7	0	50	0	99.4	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	49.4	0	50	0	98.8	75.6	120	0	0		
Surr: Dibromofluoromethane	51	0	50	0	102	74.1	121	0	0		
Surr: Toluene-d8	50.7	0	50	0	101	82.8	112.8	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **LCSD-F040801-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801C**
Client ID: **ZZZZZ**	Batch ID: **21302**	TestNo: **SW8260B**		Analysis Date: **8/2/04**	SeqNo: **806503**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.3	1.0	50	0	98.6	84.2	125	47.7	3.30	0	
Toluene	48.8	5.0	50	1	95.6	84	126	47.1	3.54	0	
Ethylbenzene	47.2	5.0	50	0	94.4	84.7	127	45	4.77	0	
Xylenes, Total	92.4	5.0	100	1.1	91.3	83.3	131	88.2	4.65	0	
Surr: 1,2-Dichloroethane-d4	49.6	0	50	0	99.2	72.8	122	0	0	0	
Surr: 4-Bromofluorobenzene	49.4	0	50	0	98.8	75.6	120	0	0	0	
Surr: Dibromofluoromethane	50.6	0	50	0	101	74.1	121	0	0	0	
Surr: Toluene-d8	50.1	0	50	0	100	82.8	112.8	0	0	0	

Sample ID: **LCS-F040802-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/2/04**	Run ID: **5972 INST. F_040802A**
Client ID: **ZZZZZ**	Batch ID: **21323**	TestNo: **SW8260B**		Analysis Date: **8/2/04**	SeqNo: **807840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.3	1.0	50	0	98.6	84.2	125	0	0		
Toluene	50	5.0	50	0	100	84	126	0	0		
Ethylbenzene	49.3	5.0	50	0	98.6	84.7	127	0	0		
Xylenes, Total	98.3	5.0	100	0	98.3	83.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	48.1	0	50	0	96.2	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	49.7	0	50	0	99.4	75.6	120	0	0		
Surr: Dibromofluoromethane	50.2	0	50	0	100	74.1	121	0	0		
Surr: Toluene-d8	50.4	0	50	0	101	82.8	112.8	0	0		

Sample ID: **LCSD-F040802-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/2/04**	Run ID: **5972 INST. F_040802A**
Client ID: **ZZZZZ**	Batch ID: **21323**	TestNo: **SW8260B**		Analysis Date: **8/2/04**	SeqNo: **807841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.7	1.0	50	0	101	84.2	125	49.3	2.80	0	
Toluene	51.4	5.0	50	0	103	84	126	50	2.76	0	
Ethylbenzene	50.3	5.0	50	0	101	84.7	127	49.3	2.01	0	
Xylenes, Total	100	5.0	100	0	100	83.3	131	98.3	1.71	0	
Surr: 1,2-Dichloroethane-d4	48.2	0	50	0	96.4	72.8	122	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **LCSD-F040802-1**	SampType: **LCS1**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/2/04**	Run ID: **5972 INST. F_040802A**
Client ID: **ZZZZZ**	Batch ID: **21323**	TestNo: **SW8260B**		Analysis Date: **8/2/04**	SeqNo: **807841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	50.4	0	50	0	101	75.6	120	0	0	0	
Surr: Dibromofluoromethane	50.7	0	50	0	101	74.1	121	0	0	0	
Surr: Toluene-d8	50	0	50	0	100	82.8	112.8	0	0	0	

Sample ID: **MBLK-F040729-2**	SampType: **MBLK**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/29/04**	Run ID: **5972 INST. F_040729C**
Client ID: **ZZZZZ**	Batch ID: **21279**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **805580**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	1.1	5.0									J
Surr: 1,2-Dichloroethane-d4	51.3	0	50	0	103	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	48.4	0	50	0	96.8	75.6	120	0	0		
Surr: Dibromofluoromethane	51.2	0	50	0	102	74.1	121	0	0		
Surr: Toluene-d8	49.7	0	50	0	99.4	82.8	112.8	0	0		

Sample ID: **MBLK-F040730-1**	SampType: **MBLK**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/30/04**	Run ID: **5972 INST. F_040730A**
Client ID: **ZZZZZ**	Batch ID: **21285**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **806190**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.5	0	50	0	99	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	48.2	0	50	0	96.4	75.6	120	0	0		
Surr: Dibromofluoromethane	49.2	0	50	0	98.4	74.1	121	0	0		
Surr: Toluene-d8	50.3	0	50	0	101	82.8	112.8	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **MBLK-F040730-2**	SampType: **MBLK**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/30/04**	Run ID: **5972 INST. F_040730D**
Client ID: **ZZZZZ**	Batch ID: **21287**	TestNo: **SW8260B**		Analysis Date: **7/31/04**	SeqNo: **806219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	1	5.0									J
Ethylbenzene	ND	5.0									
Xylenes, Total	1.1	5.0									J
Surr: 1,2-Dichloroethane-d4	47	0	50	0	94	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	51	0	50	0	102	75.6	120	0	0		
Surr: Dibromofluoromethane	49.1	0	50	0	98.2	74.1	121	0	0		
Surr: Toluene-d8	49.2	0	50	0	98.4	82.8	112.8	0	0		

Sample ID: **MBLK-F040731-1**	SampType: **MBLK**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **7/31/04**	Run ID: **5972 INST. F_040731A**
Client ID: **ZZZZZ**	Batch ID: **21288**	TestNo: **SW8260B**		Analysis Date: **7/31/04**	SeqNo: **806238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	ND	5.0									
Methyl tert-butyl ether	ND	2.0									
o-Xylene	ND	5.0									
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	52.4	0	50	0	105	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	47.8	0	50	0	95.6	75.6	120	0	0		
Surr: Dibromofluoromethane	51.8	0	50	0	104	74.1	121	0	0		
Surr: Toluene-d8	50.2	0	50	0	100	82.8	112.8	0	0		

Sample ID: **MBLK-F040801-1**	SampType: **MBLK**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801A**
Client ID: **ZZZZZ**	Batch ID: **21301**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	ND	5.0									
Methyl tert-butyl ether	ND	2.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **MBLK-F040801-1**	SampType: **MBLK**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801A**
Client ID: **ZZZZZ**	Batch ID: **21301**	TestNo: **SW8260B**		Analysis Date: **8/1/04**	SeqNo: **806468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	5.0									
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	1	5.0									J
Surr: 1,2-Dichloroethane-d4	49	0	50	0	98	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	49.6	0	50	0	99.2	75.6	120	0	0		
Surr: Dibromofluoromethane	50.2	0	50	0	100	74.1	121	0	0		
Surr: Toluene-d8	50.1	0	50	0	100	82.8	112.8	0	0		

Sample ID: **MBLK-F040801-1**	SampType: **MBLK**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/1/04**	Run ID: **5972 INST. F_040801C**
Client ID: **ZZZZZ**	Batch ID: **21302**	TestNo: **SW8260B**		Analysis Date: **8/2/04**	SeqNo: **806504**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	1	5.0									J
Ethylbenzene	ND	5.0									
Xylenes, Total	1.1	5.0									J
Surr: 1,2-Dichloroethane-d4	50.5	0	50	0	101	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	49.1	0	50	0	98.2	75.6	120	0	0		
Surr: Dibromofluoromethane	50.4	0	50	0	101	74.1	121	0	0		
Surr: Toluene-d8	50.1	0	50	0	100	82.8	112.8	0	0		

Sample ID: **MBLK-F040802-1**	SampType: **MBLK**	TestCode: **V_BTEX_S**	Units: **µg/Kg**	Prep Date: **8/2/04**	Run ID: **5972 INST. F_040802A**
Client ID: **ZZZZZ**	Batch ID: **21323**	TestNo: **SW8260B**		Analysis Date: **8/2/04**	SeqNo: **807842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070635
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: **MBLK-F040802-1** SampType: **MBLK** TestCode: **V_BTEX_S** Units: **µg/Kg** Prep Date: **8/2/04** Run ID: **5972 INST. F_040802A**
Client ID: **ZZZZZ** Batch ID: **21323** TestNo: **SW8260B** Analysis Date: **8/2/04** SeqNo: **807842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	48.3	0	50	0	96.6	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	50.3	0	50	0	101	75.6	120	0	0		
Surr: Dibromofluoromethane	49.7	0	50	0	99.4	74.1	121	0	0		
Surr: Toluene-d8	50.3	0	50	0	101	82.8	112.8	0	0		

Sample ID: **LCS-F040730-2** SampType: **LCS** TestCode: **V_BTEX_S** Units: **µg/Kg** Prep Date: **7/30/04** Run ID: **5972 INST. F_040730D**
Client ID: **ZZZZZ** Batch ID: **21287** TestNo: **SW8260B** Analysis Date: **7/30/04** SeqNo: **806217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	26.8	1.0	32.4	0	82.7	72.2	98.3	0	0		
Toluene	163	5.0	153	1	106	90.4	121	0	0		
Ethylbenzene	35.8	5.0	36	0	99.4	92.6	128	0	0		
Xylenes, Total	176	5.0	174	1.1	101	94.3	131	0	0		
Surr: 1,2-Dichloroethane-d4	47.6	0	50	0	95.2	72.8	122	0	0		
Surr: 4-Bromofluorobenzene	50.8	0	50	0	102	75.6	120	0	0		
Surr: Dibromofluoromethane	48.6	0	50	0	97.2	74.1	121	0	0		
Surr: Toluene-d8	50.2	0	50	0	100	82.8	112.8	0	0		

Sample ID: **LCSD-F040730-2** SampType: **LCSD** TestCode: **V_BTEX_S** Units: **µg/Kg** Prep Date: **7/30/04** Run ID: **5972 INST. F_040730D**
Client ID: **ZZZZZ** Batch ID: **21287** TestNo: **SW8260B** Analysis Date: **7/30/04** SeqNo: **806218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	26.6	1.0	32.4	0	82.1	72.2	98.3	26.8	0.749	15	
Toluene	164	5.0	153	1	107	90.4	121	163	0.612	15	
Ethylbenzene	36.7	5.0	36	0	102	92.6	128	35.8	2.48	15	
Xylenes, Total	175	5.0	174	1.1	99.9	94.3	131	176	0.570	15	
Surr: 1,2-Dichloroethane-d4	47	0	50	0	94	72.8	122	0	0	0	
Surr: 4-Bromofluorobenzene	50.8	0	50	0	102	75.6	120	0	0	0	
Surr: Dibromofluoromethane	48.8	0	50	0	97.6	74.1	121	0	0	0	
Surr: Toluene-d8	49.9	0	50	0	99.8	82.8	112.8	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070740
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-21250**	SampType: **MBLK**	TestCode: **SV_8310S_W**	Units: **mg/L**	Prep Date: **7/29/04**	Run ID: **HPLC INST. C_040730A**
Client ID: **ZZZZZ**	Batch ID: **21250**	TestNo: **SW8310**		Analysis Date: **7/30/04**	SeqNo: **807990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.00300									
Acenaphthylene	ND	0.00150									
Anthracene	ND	0.00030									
Benzo(a)anthracene	ND	0.00009									
Benzo(a)pyrene	ND	0.00012									
Benzo(b)fluoranthene	ND	0.00015									
Benzo(g,h,i)perylene	ND	0.00030									
Benzo(k)fluoranthene	ND	0.00015									
Chrysene	ND	0.00045									
Dibenzo(a,h)anthracene	ND	0.00018									
Fluoranthene	ND	0.00090									
Fluorene	ND	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.00030									
Naphthalene	ND	0.00300									
Phenanthrene	ND	0.00060									
Pyrene	ND	0.00030									
Surr: Terphenyl-d14	0.00925	0	0.01	0	92.5	71.4	126	0	0		

Sample ID: **LCS-21250**	SampType: **LCS**	TestCode: **SV_8310S_W**	Units: **mg/L**	Prep Date: **7/29/04**	Run ID: **HPLC INST. C_040730A**
Client ID: **ZZZZZ**	Batch ID: **21250**	TestNo: **SW8310**		Analysis Date: **7/30/04**	SeqNo: **807988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0402	0.00300	0.05	0	80.4	55.1	93.1	0	0		
Acenaphthylene	0.0789	0.00150	0.1	0	78.9	63.2	106	0	0		
Anthracene	0.00461	0.00030	0.005	0	92.2	73.6	104	0	0		
Benzo(a)anthracene	0.00412	0.00009	0.005	0	82.4	70.2	98.4	0	0		
Benzo(a)pyrene	0.00436	0.00012	0.005	0	87.2	65.5	99.1	0	0		
Benzo(b)fluoranthene	0.00878	0.00015	0.01	0	87.8	71.1	99.6	0	0		
Benzo(g,h,i)perylene	0.00903	0.00030	0.01	0	90.3	70.4	104	0	0		
Benzo(k)fluoranthene	0.00441	0.00015	0.005	0	88.2	71.9	109	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070740
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCS-21250**	SampType: **LCS**	TestCode: **SV_8310S_W**	Units: **mg/L**	Prep Date: **7/29/04**	Run ID: **HPLC INST. C_040730A**
Client ID: **ZZZZZ**	Batch ID: **21250**	TestNo: **SW8310**		Analysis Date: **7/30/04**	SeqNo: **807988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	0.00409	0.00045	0.005	0	81.8	70.6	99.3	0	0		
Dibenzo(a,h)anthracene	0.0104	0.00018	0.01	0	104	75.6	110	0	0		
Fluoranthene	0.00858	0.00090	0.01	0	85.8	71.6	100	0	0		
Fluorene	0.00774	0.00030	0.01	0	77.4	54.5	97.6	0	0		
Indeno(1,2,3-cd)pyrene	0.00447	0.00030	0.005	0	89.4	71.6	102	0	0		
Naphthalene	0.0349	0.00300	0.05	0	69.8	43.3	92.6	0	0		
Phenanthrene	0.00444	0.00060	0.005	0	88.8	64.3	93.4	0	0		
Pyrene	0.00379	0.00030	0.005	0	75.8	63.8	88.9	0	0		
Surr: Terphenyl-d14	0.00982	0	0.01	0	98.2	77.5	115	0	0		

Sample ID: **LCSDUP-21250**	SampType: **LCSD**	TestCode: **SV_8310S_W**	Units: **mg/L**	Prep Date: **7/29/04**	Run ID: **HPLC INST. C_040730A**
Client ID: **ZZZZZ**	Batch ID: **21250**	TestNo: **SW8310**		Analysis Date: **7/30/04**	SeqNo: **807989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0398	0.00300	0.05	0	79.6	55.1	93.1	0.0402	1.00	21.9	
Acenaphthylene	0.0808	0.00150	0.1	0	80.8	63.2	106	0.0789	2.38	22.7	
Anthracene	0.00466	0.00030	0.005	0	93.2	73.6	104	0.00461	1.08	20	
Benzo(a)anthracene	0.00431	0.00009	0.005	0	86.2	70.2	98.4	0.00412	4.51	18.8	
Benzo(a)pyrene	0.00451	0.00012	0.005	0	90.2	65.5	99.1	0.00436	3.38	19.8	
Benzo(b)fluoranthene	0.00881	0.00015	0.01	0	88.1	71.1	99.6	0.00878	0.341	19	
Benzo(g,h,i)perylene	0.00895	0.00030	0.01	0	89.5	70.4	104	0.00903	0.890	19.4	
Benzo(k)fluoranthene	0.00442	0.00015	0.005	0	88.4	71.9	109	0.00441	0.226	19.2	
Chrysene	0.00423	0.00045	0.005	0	84.6	70.6	99.3	0.00409	3.37	18.2	
Dibenzo(a,h)anthracene	0.0102	0.00018	0.01	0	102	75.6	110	0.0104	1.94	17.6	
Fluoranthene	0.00884	0.00090	0.01	0	88.4	71.6	100	0.00858	2.99	18.1	
Fluorene	0.00816	0.00030	0.01	0	81.6	54.5	97.6	0.00774	5.28	26.9	
Indeno(1,2,3-cd)pyrene	0.00455	0.00030	0.005	0	91	71.6	102	0.00447	1.77	19	
Naphthalene	0.0374	0.00300	0.05	0	74.8	43.3	92.6	0.0349	6.91	30	
Phenanthrene	0.00453	0.00060	0.005	0	90.6	64.3	93.4	0.00444	2.01	20	
Pyrene	0.00391	0.00030	0.005	0	78.2	63.8	88.9	0.00379	3.12	18.9	
Surr: Terphenyl-d14	0.0099	0	0.01	0	99	77.5	115	0	0	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070740
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-A040730-2**	SampType: **LCS1**	TestCode: **V_BTEX_W**	Units: **µg/L**	Prep Date: **7/30/04**	Run ID: **5971 INST. A_040730D**
Client ID: **ZZZZZ**	Batch ID: **21306**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **806583**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.9	2.0	50	0	95.8	77.4	120	0	0		
Toluene	47.9	5.0	50	0	95.8	81.6	118	0	0		
Ethylbenzene	49	5.0	50	0	98	78.5	122	0	0		
Xylenes, Total	96	5.0	100	0	96	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	49.1	0	50	0	98.2	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50	0	50	0	100	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.2	0	50	0	100	88.9	121.2	0	0		
Surr: Toluene-d8	51.1	0	50	0	102	84.1	114.5	0	0		

Sample ID: **LCS-A040731-1**	SampType: **LCS1**	TestCode: **V_BTEX_W**	Units: **µg/L**	Prep Date: **7/31/04**	Run ID: **5971 INST. A_040731A**
Client ID: **ZZZZZ**	Batch ID: **21312**	TestNo: **SW8260B**		Analysis Date: **7/31/04**	SeqNo: **807114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.2	2.0	50	0	86.4	77.4	120	0	0		
Toluene	44.6	5.0	50	0	89.2	81.6	118	0	0		
Ethylbenzene	45.6	5.0	50	0	91.2	78.5	122	0	0		
Xylenes, Total	91	5.0	100	0	91	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	46.2	0	50	0	92.4	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	51.2	0	50	0	102	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.5	0	50	0	97	88.9	121.2	0	0		
Surr: Toluene-d8	51	0	50	0	102	84.1	114.5	0	0		

Sample ID: **LCS-A040802-2**	SampType: **LCS1**	TestCode: **V_BTEX_W**	Units: **µg/L**	Prep Date: **8/2/04**	Run ID: **5971 INST. A_040802B**
Client ID: **ZZZZZ**	Batch ID: **21330**	TestNo: **SW8260B**		Analysis Date: **8/2/04**	SeqNo: **807962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.7	2.0	50	0	93.4	77.4	120	0	0		
Toluene	44.5	5.0	50	0	89	81.6	118	0	0		
Ethylbenzene	47.7	5.0	50	0	95.4	78.5	122	0	0		
Xylenes, Total	92.9	5.0	100	0	92.9	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	47.7	0	50	0	95.4	84.3	135	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070740
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-A040802-2**	SampType: **LCS1**	TestCode: **V_BTEX_W**	Units: **µg/L**	Prep Date: **8/2/04**	Run ID: **5971 INST. A_040802B**
Client ID: **ZZZZZ**	Batch ID: **21330**	TestNo: **SW8260B**		Analysis Date: **8/2/04**	SeqNo: **807962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	49.6	0	50	0	99.2	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49	0	50	0	98	88.9	121.2	0	0		
Surr: Toluene-d8	49.5	0	50	0	99	84.1	114.5	0	0		

Sample ID: **MBLK-A040728-2**	SampType: **MBLK**	TestCode: **V_BTEX_W**	Units: **µg/L**	Prep Date: **7/28/04**	Run ID: **5971 INST. A_040728G**
Client ID: **ZZZZZ**	Batch ID: **21260**	TestNo: **SW8260B**		Analysis Date: **7/29/04**	SeqNo: **804495**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	47.4	0	50	0	94.8	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.3	0	50	0	101	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.8	0	50	0	97.6	88.9	121.2	0	0		
Surr: Toluene-d8	50.1	0	50	0	100	84.1	114.5	0	0		

Sample ID: **MBLK-A040730-2**	SampType: **MBLK**	TestCode: **V_BTEX_W**	Units: **µg/L**	Prep Date: **7/30/04**	Run ID: **5971 INST. A_040730D**
Client ID: **ZZZZZ**	Batch ID: **21306**	TestNo: **SW8260B**		Analysis Date: **7/30/04**	SeqNo: **806584**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	50.5	0	50	0	101	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.4	0	50	0	101	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.2	0	50	0	100	88.9	121.2	0	0		
Surr: Toluene-d8	51.3	0	50	0	103	84.1	114.5	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070740
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **MBLK-A040731-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **7/31/04** Run ID: **5971 INST. A_040731A**
Client ID: **ZZZZZ** Batch ID: **21312** TestNo: **SW8260B** Analysis Date: **7/31/04** SeqNo: **807115**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	47.5	0	50	0	95	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.2	0	50	0	100	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49	0	50	0	98	88.9	121.2	0	0		
Surr: Toluene-d8	50.7	0	50	0	101	84.1	114.5	0	0		

Sample ID: **MBLK-A040802-2** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **8/2/04** Run ID: **5971 INST. A_040802B**
Client ID: **ZZZZZ** Batch ID: **21330** TestNo: **SW8260B** Analysis Date: **8/2/04** SeqNo: **807963**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	48	0	50	0	96	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.5	0	50	0	99	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.2	0	50	0	96.4	88.9	121.2	0	0		
Surr: Toluene-d8	49.3	0	50	0	98.6	84.1	114.5	0	0		

Sample ID: **LCS-A040728-2** SampType: **LCS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **7/28/04** Run ID: **5971 INST. A_040728G**
Client ID: **ZZZZZ** Batch ID: **21260** TestNo: **SW8260B** Analysis Date: **7/29/04** SeqNo: **804493**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	25.5	2.0	32.4	0	78.7	67.7	99.7	0	0		
Toluene	155	5.0	153	0	101	90.2	122	0	0		
Ethylbenzene	36.5	5.0	36	0	101	90.1	121	0	0		
Xylenes, Total	178	5.0	174	0	102	92.4	124	0	0		
Surr: 1,2-Dichloroethane-d4	49.2	0	50	0	98.4	84.3	135	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Philip Environmental
Work Order: 04070740
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-A040728-2** SampType: **LCS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **7/28/04** Run ID: **5971 INST. A_040728G**
Client ID: **ZZZZZ** Batch ID: **21260** TestNo: **SW8260B** Analysis Date: **7/29/04** SeqNo: **804493**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	51	0	50	0	102	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.9	0	50	0	97.8	88.9	121.2	0	0		
Surr: Toluene-d8	50.7	0	50	0	101	84.1	114.5	0	0		

Sample ID: **LCSD-A040728-2** SampType: **LCSD** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **7/28/04** Run ID: **5971 INST. A_040728G**
Client ID: **ZZZZZ** Batch ID: **21260** TestNo: **SW8260B** Analysis Date: **7/29/04** SeqNo: **804494**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	24.6	2.0	32.4	0	75.9	67.7	99.7	25.5	3.60	15	
Toluene	150	5.0	153	0	98	90.2	122	155	3.27	15	
Ethylbenzene	35.7	5.0	36	0	99.2	90.1	121	36.5	2.22	15	
Xylenes, Total	171	5.0	174	0	98.3	92.4	124	178	4.01	0	
Surr: 1,2-Dichloroethane-d4	48.3	0	50	0	96.6	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	50.8	0	50	0	102	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	48.7	0	50	0	97.4	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.7	0	50	0	101	84.1	114.5	0	0	0	

Sample ID: **04070740-004BMS** SampType: **MS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **7/28/04** Run ID: **5971 INST. A_040728G**
Client ID: **111043** Batch ID: **21260** TestNo: **SW8260B** Analysis Date: **7/29/04** SeqNo: **804499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.5	2.0	56	0	83	70.8	122	0	0		
Toluene	52.3	5.0	56	0	93.4	77.2	117	0	0		
Ethylbenzene	52.9	5.0	56	0	94.5	81	113	0	0		
Xylenes, Total	109	5.0	112	0	97.3	80.3	116	0	0		
Surr: 1,2-Dichloroethane-d4	52	0	50	0	104	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.2	0	50	0	100	81.1	113.3	0	0		
Surr: Dibromofluoromethane	51.2	0	50	0	102	88.9	121.2	0	0		
Surr: Toluene-d8	51	0	50	0	102	84.1	114.5	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Philip Environmental
Work Order: 04070740
Project: A831-735002-012901-225/IP Champaign

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **04070740-004BMSD** SampType: **MSD** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **7/28/04** Run ID: **5971 INST. A_040728G**
Client ID: **111043** Batch ID: **21260** TestNo: **SW8260B** Analysis Date: **7/29/04** SeqNo: **804587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.9	2.0	56	0	82	70.8	122	46.5	1.30	15	
Toluene	52.6	5.0	56	0	93.9	77.2	117	52.3	0.572	15	
Ethylbenzene	53.6	5.0	56	0	95.7	81	113	52.9	1.31	15	
Xylenes, Total	107	5.0	112	0	95.5	80.3	116	109	1.85	15	
Surr: 1,2-Dichloroethane-d4	52.4	0	50	0	105	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	51.1	0	50	0	102	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	51.1	0	50	0	102	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.9	0	50	0	102	84.1	114.5	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank