

**Off-Site Investigation Report  
Former Manufactured Gas Plant  
Champaign, Illinois  
State ID 0190100008**

August 22, 2008

Prepared for:



ST. LOUIS, MISSOURI



Columbia, Illinois

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**AMEREN SERVICES**  
ST. LOUIS, MISSOURI

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PSC Project 62403053



## Executive Summary

AmerenIP is submitting this Site Investigation Report (SIR) to present an evaluation of the soil and groundwater impact for the surrounding off-site properties adjacent to the former manufactured gas plant (MGP) facility in Champaign, Illinois. The SIR 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 SIR is being submitted as a supplement to the *Comprehensive Site Investigation Report, Former Manufactured Gas Plant, Champaign Illinois, LPC 0190100008* dated December 2007 (CSIR) with the intent to obtain a Comprehensive No Further Remediation (NFR) letter for the remediation site located at 308 N. 5<sup>th</sup> Street, Champaign Illinois and the adjacent properties. Findings of previous investigations indicated the presence of soil and groundwater impact exceeding IEPA Tiered Approach to Corrective Action Objectives (TACO) Tier 1 remediation objectives (ROs) associated with the past operations of the MGP.

The primary objective of the off-site investigation was to define the extent, both vertical and horizontal, of the MGP related impacts surrounding the AmerenIP property. 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 affected property owners to address identified impacts.

### Site Description

The remediation site 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. This investigation also included adjacent residential properties to the north, west and south, and commercial properties to the east. 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 manufactured gas plant on the remediation site from approximately 1869 through the early 1930s. The plant was placed on standby status from the early 1930s to the mid 1950s and was used for meeting peak demand up until the mid 1950s. 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 SIR is being submitted with the intent of the Remedial Applicant (RA), AmerenIP, to obtain a Comprehensive NFR Letter for the remediation site. The objective of the investigation activities was to collect data to determine the extent of potential off-site impacts from the Champaign MGP site and to provide the quantity and quality of data necessary to complete a SIR, Remedial Objectives Report (ROR), and Remedial Action Plan (RAP) under the SRP and TACO. Findings of the site investigation indicated the presence of soil and groundwater impact off-site that exceeds Tier 1 ROs.

## **Technical Approach**

The technical approach for the investigations included reviewing historical data and information from previous investigations 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 on off-site properties. Investigation results indicated the presence of subsurface soil and groundwater impact on properties to the north, east, and west of the MGP, as well as groundwater impact to the south. Although present, there were no indications of past or current human exposure to the impacts.

## **Recognized Environmental Conditions**

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. The former "University of Illinois Gas Experiment Station" was located in the northeastern portion of the site. All structures associated with the MGP have been removed with the exception of the booster house which remains on-site.

## **Constituents of Concern**

The analytical data set was compared to the TACO Tier 1 RO values, the provisional non-TACO ROs, and accepted background levels as an initial screening. Based on this review, 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 on-site soils during the CSI. Eighteen COCs were identified in soils off-site during the 2008 investigation. Eleven constituents have been identified in groundwater at levels exceeding TACO Tier 1 ROs. COCs from the 2008 off-site investigation are listed in Table ES-1. Remedial actions have been performed to address significant levels of impact, however, 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 IEPA's requirements for an NFR letter will be discussed and presented at a later time in the ROR, RAP, and Remedial Action Completion Report (RACR).

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# 1 INTRODUCTION

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This report has been prepared for AmerenIP by PSC Industrial Outsourcing, LP (PSC). PSC was retained by AmerenIP to provide consulting services for the investigation of the former Champaign manufactured gas plant (MGP) site and surrounding properties 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). For the purposes of this report, the “Site” is reference to the AmerenIP – owned property that is primarily located within the fenced boundary. Off-site properties consist of any adjacent property outside the AmerenIP site.

## 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 of both residential and commercial properties. Figure 1-2 depicts the remediation site boundaries and the layout of the surrounding properties.

A single active track railroad right-of-way (Norfolk-Southern) borders the Site to the north and several residential properties are located north of the railroad right-of-way. The Sixth Street right-of-way is adjacent to the east of the Site; however, Sixth Street is closed 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 active alley. North Fifth Street borders the Site to the west and separates the Site from residential properties to the west. At one time, Hill Street approximately bisected the Site in the east-west direction; but the street has been vacated and is now part of the Site owned by AmerenIP.

## 1.2 Project Objectives

The objective of the off-site investigation activities was to collect data to determine the extent of potential off-site impacts from the Champaign MGP site. The investigation activities were designed to address all areas that may be potentially impacted due to former MGP site operations and to supplement data collected during previous investigations and remediation activities completed at the Site. The data obtained will be utilized with the existing data for the evaluation of potential actions required to obtain from the IEPA a No Further Remediation (NFR) letter(s) for the associated properties.

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

- Completion of surface and subsurface soil sampling using a GeoProbe<sup>TM</sup> with a hydraulic hammer;

- Installation of thirteen additional groundwater monitoring wells;
- Collection of groundwater samples;
- Collection of Shelby tubes for geotechnical parameters; and
- Completion of soil and groundwater laboratory analytical program.

### **1.3 Report Organization**

This SIR was prepared for submittal to the IEPA to meet the requirements of IAC Section 740.425 and is organized into eight technical sections and seven appendices.

- Section 1 provides an introduction to the Site and objectives of this report;
- Section 2 presents information on the background of the Site, details relative to Site history and previous investigation activities, and a discussion of Site physical conditions including regional and site-specific geological and hydrogeological conditions;
- Section 3 presents a brief overview of the Off-Site Investigation Work Plan;
- 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; and
- Section 8 presents the Illinois Licensed Professional Geologist review statement and certification.



## 2 SITE BACKGROUND

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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. Additional information regarding the history of the Site is included in the *Comprehensive Site Investigation Report for AmerenIP Champaign, Illinois Former Manufactured Gas Plant, State ID 0190100008* dated December 2007 (CSIR).

### 2.1 Site History

The following 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 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). Gas was produced by coal carbonization, oil gasification, and carbureted water gas methods during various periods of operation. 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, Illinois Power, a predecessor of AmerenIP, maintained ownership of the property until 1979 when it was sold to the American Legion. Illinois Power repurchased the property from the American Legion in 1991 after preliminary environmental investigations indicated the presence of MGP related impacts at the Site. Figure 2-1 illustrates the historical MGP structures at the site through its years of operation.

The 1887 Sanborn map shows a residence located on the southeast corner of 5<sup>th</sup> and Hill Streets, in an area that later became part of the MGP. The map also shows a seminary located at the northwest corner of 5<sup>th</sup> and Hill Streets. The 1892 Sanborn map indicated a residence north of the railroad tracks, in the area that is currently 5<sup>th</sup> and Washington Streets. The 1915 Sanborn map shows the expansion of the MGP to the south side of E. Hill Street. One gas holder is illustrated on the map surrounded by residences. The 1924 Sanborn map indicates the presence of three residences located on the southeast corner of what is now the MGP site, and the 1951 map shows the expansion of the MGP to include the entire block south of E. Hill Street between 5<sup>th</sup> and 6<sup>th</sup> Streets. Refer to the CSIR for details on the Sanborn Maps.

### 2.2 Site Description

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 of both residential and commercial properties. Figure 1-2 depicts the Site boundaries and layout of adjacent properties.

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

### **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 3<sup>rd</sup>. 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.

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 Below Land Surface (BLS). Water table elevations range from 650 feet above Mean Sea Level (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 of the CSIR.

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 and unweathered till units of the Wedron Formation, Upper Glasford Formation, and the sand member of the Lower Glasford Formation. Below the Glasford formations are the Upper and Middle Banner formations, beneath which is the bedrock at an estimated depth of 290 feet bgs in the vicinity of the Site.

### **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 Wisconsin 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.

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. 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 Wisconsin 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 bgs. 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 Illinoian 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.

## **2.7 Site Hydrogeology**

Groundwater hydrology activities completed during the off-site investigation consisted of sampling wells which had been installed during the Phase II activities, and the installation and sampling of thirteen additional wells. The following sections describe the three uppermost water-bearing units beneath the Site.



### **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 uppermost till unit and is currently monitored by nineteen wells. Groundwater in the shallow system beneath most of the study area generally flows in a north/northwest direction with a somewhat radial pattern from the site that may be due to well locations and spacing. The configuration of the shallow water table in May 2008 is shown on Figure 2-2, and the configuration of the shallow water table in December 2006 is shown on Figure 2-3. Depth to the shallow groundwater system typically ranges from 3- to 10- feet bgs. Additional groundwater data from previous events is presented in the CSIR dated December 2007.

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  $9.1 \times 10^{-5}$  cm/sec from the slug tests performed in wells UMW-104 and UMW-106 (Table 2-1). 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  $3.2 \times 10^{-5}$  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 Intermediate Sand Unit**

Eight groundwater monitoring wells were installed at a depth of forty-five feet bgs during the 2008 off-site investigation to encounter an intermediate sand unit. Wells were cased to a depth of approximately 29.5 feet bgs with a screened interval of 35.0 to 45.0 feet bgs. One well was installed off-site to the north and west; three wells were installed off-site to the south, one well was installed off-site to the southeast, and one well was installed off-site to the east. An additional well was installed on-site in the former Hill Street right-of-way. Water levels taken in July 2008 ranged from 25.0 to 28.0 feet bgs. The configuration of the intermediate water table in July 2008 is shown on Figure 2-4. Groundwater generally flows in a southeast direction.

Slug testing was performed in four of the eight intermediate wells (UMW-301, UMW-302, UMW-303, and UMW-304) during the off-site investigations. The horizontal hydraulic conductivity values ranged from  $2.80 \times 10^{-2}$  centimeters per second to  $8.63 \times 10^{-2}$  centimeters per second. The mean hydraulic conductivity calculated using data from the four wells was  $4.85 \times 10^{-2}$  centimeters per second, or 137.5 feet per day. Hydraulic conductivity data is presented in Table 2-3, and field data sheets are included in Appendix A.

### **2.7.3 Deep Groundwater System**

The deepest groundwater system that has been monitored at the Site is a sand and gravel zone within the Lower Glasford Formation beginning at a depth of about 151 feet bgs to a depth greater than 177 feet bgs. The sand and gravel layers encountered in this zone were much thicker and laterally continuous than the silty sand and sand units encountered in the weathered and unweathered till units. The water levels for the three wells screened in this zone stabilized at depths of approximately 120 feet bgs. The regional gradient is to the west-southwest.

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 cross sections were developed during the CSI which illustrate some of the Site features and characteristics. A total of six sections have been constructed. Figure 2-5 is a site plan which shows locations of these six cross sections. Figures 2-6 through 2-8 are west to east cross sections and Figures 2-9 through 2-11 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 of the CSIR.

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 of the CSIR. 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 sites 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. These investigations began in 1986 and 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 2007.

### **2.10.1 Phase IA/IB Investigation**

Warzyn conducted two phases of investigation during 1986. Phase IA consisted of a detailed site inspection and interviews, and Phase IB included soil gas sampling and geophysical exploration. Evidence of buried structures and MGP residuals were observed on the Site. Phase IA/IB activities were used to direct Phase IC/ID RECON Investigation activities.

### **2.10.2 Phase IC/ID RECON<sup>®</sup> Investigation**

Mathes conducted Phase IC/ID RECON<sup>®</sup> Investigation activities on-site and off-site in 1990 to evaluate the nature and extent of MGP impact in shallow soils and groundwater. Soil and groundwater samples were collected at 34 locations on-site and 37 locations off-site for headspace analysis using an on-site gas chromatograph (GC). 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.



### **2.10.3 Phase II Site Investigation**

Phase II site investigation activities began in November 1990, continued throughout 1991, and were completed in January 1992. Phase II 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. Thirty-four soil samples were collected for analysis from 28 boring locations. A groundwater monitoring program began during the Phase II activities and has been continued to the present. 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.

The results of the Phase II SI confirmed the results of the Phase I assessments; 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. AmerenIP conducted additional investigations at the Site beginning in 2004 in order to complete the site investigation according to current Illinois regulations. The data from the Phase II SI as well as newly collected data were the basis for the December 2007 Comprehensive SIR.

### **2.10.4 Supplemental Site Investigation**

A Supplemental Site Investigation 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. SSI activities included geoprobe soil sampling along the Sixth Street right-of-way, test pit excavations near GH-1 and immediately west of Sixth Street, and sampling of liquids within GH-1. 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 migration pathways were discovered during the SSI activities.

### **2.10.5 Interim Remedial Measures**

Interim remedial measures were completed at the Site between October 1997 and May 1998. The objective was the removal of source material from within subgrade gas holder (GH-1), tar wells and a tar separator, and an area of purifier waste. Source materials and residuals were treated on-site to render the materials non-hazardous. These impacted materials were subsequently excavated and shipped off-site for treatment at Illinova Resource Recovery's Baldwin Thermal Treatment (BTT) Facility. Approximately 1,500 tons of MGP impacted material were excavated and disposed of at BTT and an additional 100 cubic yards of concrete and rubble were disposed of at a landfill.

### **2.10.6 Comprehensive Site Investigation**

A Comprehensive Site Investigation was completed during June through August 2004 to define the extent of MGP-related impacts on the AmerenIP property. The principal CSI activities completed during 2004 included excavation and sampling of test pits, logging and sampling of probeholes, and groundwater sampling. Nine test pits were excavated to investigate below grade MGP structures not addressed during the interim remedial measures and to evaluate potential off-site migration pathways to the north and east of the Site. Evidence of MGP-related impact was observed in all test pits and six soil samples were collected for chemical analysis. Although heavily impacted material was identified in test pits in the north and east edges of the Site, the relatively shallow depths suggested that they were not likely the pathways for off-site migration.

Twenty-seven probeholes were completed to depths ranging from twenty-four to thirty-two feet. Three probeholes were completed within the vacated Sixth Street right-of-way and seven probeholes were completed within the railroad right-of-way. The remaining seventeen probeholes were completed on the AmerenIP owned parcel. Evidence of MGP-related impact was noted at all probehole locations with the exception of two. 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. RECs determined during the CSI are presented in Section 6. Additional details of the investigation evaluation were discussed in the CSIR.

Fourteen monitoring wells were also sampled for chemical analysis. Water level measurements, total well depths, and presence of MGP-related impact were recorded. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbon (PAH) constituents were identified above detection limits in five samples.

### **2.10.7 Groundwater Monitoring**

As noted in Section 2.10.3, 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.

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 residual MGP impact 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 residual MGP impact 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 removed.

The shallow groundwater system at the Site has been impacted by MGP residuals over much of the Site. The volatile organic compounds (VOCs) present in the impacted groundwater include benzene, ethylbenzene, toluene and xylenes. Throughout the duration of sampling activities, various semi-volatile organic compounds (SVOCs) have been detected in 14 of the 18 shallow monitoring wells and piezometers. Table 2-2 presents a summary of groundwater results (BTEX, PAHs) for wells monitored from 1997 through 2008.

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 indicated flow to the northeast, southwest, and northwest. December 2006 water levels indicated flow to the north and 2008 water levels indicate flow to the southeast.

## **2.11 Enforcement Actions**

No enforcement actions have been taken at the Site. AmerenIP entered the Site into the IEPA voluntary program in 1989, which has subsequently become the Site Remediation Program. 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 OFF- SITE INVESTIGATION WORK PLAN**

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This section presents the proposed activities described in the *Off-Site Investigation Work Plan, Former Manufactured Gas Plant, Champaign Illinois*, dated March 13, 2008 (OSIWP). The investigation activities included the collection of subsurface data necessary to complete the delineation of impact to soil and groundwater and to fully characterize the Site. It also included the development of remedial objectives and the preparation of the Remedial Objectives Report (ROR), which will be submitted as a separate document. Based upon the history of the MGP site and surrounding properties, as permitted in IAC Section 740.420(b)(1), the analytical program has been limited to specific MGP chemicals of concern and still satisfies the requirements for a Comprehensive Site Investigation.

The activities described in the work plan were developed to insure a dynamic investigation which could be refined throughout the duration of field activities to consider and address field observations. 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 off-site investigation activities included the following:

- Site preparation and mobilization,
- On-site soil boring and soil sampling,
- Off-site soil boring and soil sampling,
- Evaluation of groundwater conditions,
- Soil and groundwater laboratory analytical program, and
- Shelby Tube collection.

Field activities were managed and completed by PSC and its subcontractors. The IEPA and USEPA provided oversight for field activities. Kelron Environmental of Champaign, Illinois provided oversight for groundwater sampling. Vegrzyn, Sarver and Associates of Champaign, Illinois provided survey services, and Teklab Inc. of Collinsville, Illinois provided analytical laboratory services.

#### **3.1 Site Preparation and Mobilization**

Prior to performing any off-site activities, AmerenIP and/or its site representatives obtained access from the appropriate property owners. In addition, AmerenIP provided each owner and tenant with an explanation of the activities and purpose of the investigation on their applicable tract.

Joint Utility Locating Information for Excavators (J.U.L.I.E.) was contacted by PSC prior to the start of any intrusive field activities. All underground utilities were marked by the respective company, both within the boundary of the Site and within the off-site areas to be investigated. The PSC site engineer/geologist marked the approximate locations to be investigated. As site work progressed, some of these locations were modified and additional locations were included.

Excavation and drilling equipment was mobilized to the Site and a lay-down area established for storage of equipment and supplies. The former MGP booster house was used as both an office and storage facility throughout the investigation activity. A temporary decontamination pad was constructed at the Site for cleaning drilling and sampling equipment. A poly-storage tank was located adjacent to the decontamination pad for temporary storage of decontamination fluids and waste water and a roll-off box was transported to the Site for temporary storage of drill cuttings and other investigation generated solid waste.

All equipment was inspected upon arrival at the Site and decontaminated prior to any on-site use. Augers and sampling equipment were cleaned with a pressure washer after completion of each borehole prior to moving to the next sample location. Sampling equipment was rinsed with a clean water rinse after pressure washing.

### **3.2 Off-Site Investigation Objectives**

Based on a detailed review of previous investigation observations and results, 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 surrounding the Site and to provide the quantity and quality of data necessary to complete an SIR and ROR under the SRP and TACO. The primary objective of the off-site work was to collect additional data to more completely delineate the degree and extent of off-site impacts and to provide data which is complete and of the desired quality to allow subsequent completion of the ROR.

### **3.3 On-Site Soil Boring and Sampling**

Soil borings were proposed at nine locations on-site during the investigation to provide transition data for the proposed off-site locations. In general, soil borings were advanced to a depth of approximately 30.0 feet bgs or to a minimum of eight feet below visual/olfactory impact, using a truck-mounted or track-mounted hydraulic hammer probe rig with Macro-Core samplers. The final boring depth at each location was determined in the field based on observations by the site engineer/geologist using the following criteria:

- Refusal indicating buried structure, contact with impenetrable geologic unit, or limits of the equipment. If refusal was encountered within five feet of the ground surface, the boring location was shifted a few feet and re-drilled.
- Termination in the unweathered till or sand units after eight feet with no apparent MGP impacts.

All borings were continuously sampled using appropriate methods. The site engineer/geologist logged each sample and recorded information on geologic field observation data sheets. Soil type, recovery, and observations relative to odors and impacts were 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 photoionization detector (PID) and the results recorded on the field data sheets.

In general, a minimum of three soil samples were collected from each boring for laboratory analyses. A surface soil sample was collected from the interval from ground surface to three feet bgs at each location. A second sample was collected from the three to ten foot bgs interval and a third from the interval below ten feet at each boring location. In addition, if MGP impacts were observed, at least one sample from the impacted interval was collected. The impacted sample was based on PID readings and/or odor and visual observations. If more than one area of impact was observed in a depth interval, additional samples were collected. The goal of this sampling rationale was to define the degree and extent of MGP impacts in both horizontal and vertical directions.

The surface soil samples (i.e. 0- to 3- foot bgs) were analyzed for BTEX, PAHs, cyanide, metals, organic carbon ( $f_{oc}$ ) and pH. Non-impacted subsurface soils were analyzed for BTEX, PAHs, cyanide, metals,  $f_{oc}$  and pH. Impacted subsurface soil samples were analyzed for BTEX, PAHs, metals, and cyanide. Section 3.11 of this report presents the analytical methods used for this investigation and specific chemical constituents reported.

### **3.4 Off-Site Soil Boring and Sampling**

Twenty-nine off-site boring locations were proposed in the OSIWP. Additional borings were added according to field observations; therefore, a total of forty-five borings were completed off-site. These locations are shown on Figure 3-1. The primary objective of these borings was to define the vertical and horizontal extent of MGP residuals identified off-site in previous investigation activities. These borings were at least 30 feet bgs (or to a minimum of eight feet below visual/olfactory impact) and were drilled using the same methodology as described for the on-site borings in the previous section. Criteria for the depth of termination were the same as for the on-site borings.

Nineteen borings were drilled north of the railroad right-of-way, and ten were drilled along the Fifth Street right-of-way west of the remediation site. Six boreholes were drilled along the south side of the alley to the south, two were drilled south of Church Street, two were drilled east of the Sixth Street right-of-way, one was drilled southeast of the Site near the intersection of 6<sup>th</sup> and Church Streets, and three were drilled northwest of the remediation site. All borings were logged and sampled following the same criteria described in Section 3.3 for the on-site borings. Criteria for soil sample analysis were the same as for the on-site borings.

### **3.5 Monitoring Well Installation**

Based on field observations and analytical data from previous investigation activities, one additional monitoring well was installed on-site, and twelve additional monitoring wells were installed off-site. The locations of the monitoring wells are illustrated on Figure 3-1. The on-site well is located within the vacated Hill Street area near the center of the remediation site, screened in the intermediate depth of 35-45 feet to encounter a suspected sand unit beneath the Site. Off-site wells consisted of five wells installed to a depth of fifteen feet bgs, and seven wells installed to a depth of forty-five feet bgs. To prevent possible cross-contamination issues, the intermediate wells in known or



suspected areas of upper-level impact (UMW-301, UMW-302, UMW-303, and UMW-304) were outer-cased to a depth of 30 feet bgs with 10-foot screens. Monitoring well construction depths and descriptions are listed on Table 3-1.

Wells were constructed of two-inch diameter PVC well screens and risers, with well screen slot size of 0.010 inches. The annular space was backfilled with sand pack to two feet above the top of the well screen. A minimum of a two-foot seal of bentonite was placed above the sand pack. The remainder of the annular space was backfilled with bentonite grout. Each monitoring well was completed with a flush mount well protector. Well construction logs are included in Appendix C.

### **3.6 Monitoring Well Development**

After well installation, each monitoring well was developed using pump and surge method to evacuate a minimum of five well volumes of water. Field parameters of pH, conductivity, turbidity, and temperature were measured throughout the development process to ensure that groundwater conditions stabilized. The quantity of water removed, the groundwater conditions, and the beginning and ending groundwater levels were recorded on field data sheets. Copies of the field data sheets are included in Appendix C.

### **3.7 Groundwater Monitoring**

Quarterly groundwater monitoring at the Site has been underway since 1996 and has included fourteen wells on and around the Site. Ten of the thirteen new wells installed during the 2008 off-site investigation and the initial fourteen wells were sampled in May 2008. The later installed wells (UMW-305, UMW-306, and UMW-307) were sampled in July 2008. Groundwater sampling activities were initiated approximately two weeks after well installation and development of the new wells had been completed. After collection of water level data and prior to sampling, each of the wells were purged of a minimum of three well casing volumes of water. During purging, field measurements of pH, specific conductivity, temperature, and dissolved oxygen were measured until these parameters stabilized to within ten percent of the previous reading. Each well was outfitted with a dedicated bladder pump.

The procedures for well purging were in general accordance with USEPA Document 540/S-95/504 "Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, April 1996 (Low-Flow). The purging rate was performed at a rate of <0.5 Liters per minute (L/m). The water level of the well was monitored during purging to avoid unacceptable drawdown and to prevent water cascading down the well screen. The rate was decreased appropriately to maintain a constant water level to within one foot (1') of drawdown or no more than 10% below the top of the screened interval, once the pump had started. At a minimum, one well casing volume was purged prior to evaluating parameter stabilization, unless low yield dictated otherwise. Calculation data was recorded on the Well Purging Data Form. Copies of the completed forms are included in Appendix B.

Per the guideline, the purging criteria were based primarily on the stabilization of water quality parameters. Water quality measurements of temperature, pH, specific conductance, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity were recorded during purging. All measurements were obtained using a water quality instrument fitted with a flow-through cell connected to the discharge side of a pump. During purging, the flow-through cell was inspected to insure no bubbles formed on the wall. The well was purged until indicator parameters stabilized over three consecutive readings.

Stabilization has been achieved after a minimum of three successive readings, in which pH is within +/- 0.1, conductivity is within +/- 3%, ORP is within +/-10mvs, DO is within +/-10%, and turbidity is within +/-10%. Dissolved oxygen and turbidity usually are the last parameters to stabilize. Therefore, stabilization achievement for turbidity was also based on being <25 ntu's.

Groundwater samples were collected from each monitoring well for laboratory analysis. Groundwater samples were analyzed for BTEX, PAHs, cyanide and metals. Samples to be analyzed for BTEX were collected first followed by PAHs, cyanide and metals. The bottles were labeled and placed on ice in a cooler provided by the laboratory.

### **3.8 Hydrogeologic Evaluation and Testing**

Following the completion of wells, hydrogeologic testing was performed to characterize the hydrogeologic conditions. The testing included performing slug-testing on four of the intermediate monitoring wells for calculating Site hydraulic conductivity. Static groundwater level measurements were recorded and groundwater elevation contours were generated to depict the groundwater flow conditions at the Site. The groundwater contour maps for shallow and intermediate wells are illustrated in Figures 2-2, 2-3, and 2-4.

Slug testing consisted of the instantaneous introduction or removal of a stainless-steel rod or a slug into and out of each monitoring well. The instantaneous change in water level and the subsequent return of the water level to static conditions was recorded. Groundwater levels were monitored with an electronic water level indicator and a pressure transducer and data logger. Groundwater levels were monitored for a minimum of 10 minutes and until groundwater levels reached 90 percent of static conditions. Groundwater levels were not monitored beyond 60 minutes. The recorded data was evaluated using the Geraghty & Miller, Inc. model AQTESOLV™ to calculate a hydraulic conductivity at each well and the Site. AQTESOLV data sheets are included in Appendix D.

### **3.9 Shelby Tube Collection**

Shelby tubes were collected from off-site properties for the preparation of potential vapor intrusion sampling. Shelby tubes were collected from borings B-845 and B-851. The following soil geotechnical parameters were collected using the following methods:



- Porosity – ASTM Method D653
- Moisture Content – ASTM Method D2216
- Dry Unit Weight – ASTM D2937
- Specific Gravity – ASTM D854

The summary of laboratory test results is presented in Table 3-2, and calculation data is included in Appendix G. A vapor intrusion sampling event at a few residential locations will be conducted as a follow up to the off-site investigation. The specific locations will be determined upon completion of the IEPA's review of this SIR and is subject to the approval of the affected property owner(s).

### **3.10 Analytical Program**

As identified in Sections 3.2 through 3.4, both soil and water samples were collected during investigation activities for chemical analysis at an off-site laboratory. During sample collection, soil or water was placed in laboratory provided containers and labeled according to matrix, sample location, date, and analytical method. Duplicate samples were collected to assess the quality of the data resulting from the field sampling program.

Samples were protected from breakage and transported to the laboratory in coolers. Ice was used to maintain a temperature of 4° C. All soil and water samples were delivered under proper chain of custody to Teklab, Inc. in Collinsville, Illinois. The laboratory data, including analytical results and a data quality objective (DQO) level III data package, are included in Appendices D and E.

### **3.11 Soil Sample Analytical**

Soil samples were collected from on-site and off-site soil borings. A total of one hundred sixty-five soil samples were sent to the laboratory for analysis. Due to the amount of analytical data from previous investigations, complete analyses for all parameters was not necessary as a site-specific constituent of concern (COC) list is presented in the CSIR. The total number of soil samples includes a minimum of three samples from most boring locations, and four duplicate samples.

The analytical methods included the following:

- SW-846 Method 5035/8260B (BTEX)
- SW-846 Method 8270 SIMS (PAHs)
- SW-846 Method 9010/9014 (total and amenable cyanide)
- SW- 846 Methods 6010B (chromium, lead, arsenic)
- SW-846 Method 9045C (pH)
- ASTM – D2974-87 ( $f_{oc}$ )

Due to BTEX and PAHs being the primary drivers for remedial action at MGP sites, each soil sample was analyzed for BTEX and PAH constituents. Cyanide and metals were performed on approximately 40% of samples and pH on approximately 10% in a manner to fully represent the overall site conditions. A total of fourteen  $f_{oc}$  samples were collected from three interval depths in non-impacted areas and averaged for Site representation purposes. Soil samples analyzed for metals included arsenic, chromium, and lead.

### **3.12 Groundwater Sample Analytical**

Groundwater samples were collected from fourteen pre-existing monitoring wells and thirteen new wells. In addition, two duplicate samples were collected for QA/QC purposes.

The analytical methods included the following:

- SW-846 Method 8260 (BTEX)
- SW-846 Method 8270 SIMS (PAHs)
- SW-846 Method 9010 (total cyanide)
- SW-846 Methods 6010B (chromium, lead, arsenic)

## 4 COMPREHENSIVE SITE INVESTIGATION FIELD INVESTIGATION

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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 April through July 2008. In addition, certain activities defined in IAC Section 740 were performed during earlier investigations completed in 1986, 1990, 1997, 1998, and 2004 which are briefly summarized in Section 2.10. Greater detail regarding previous investigations is provided in the CSIR. Only those activities completed during 2008 are discussed in this section. The principal activities completed during 2008 included logging and sampling of probeholes, groundwater monitoring well installation, and groundwater sampling. The following sections address the activities in detail:

- Soil boring and sampling;
- Monitoring well installation;
- Well development and groundwater sampling;
- Investigation waste management and disposal; and
- Quality assurance / quality control activities.

### 4.1 Soil Boring and Sampling

As noted previously, several phases of soil sampling have been completed at and around the Site since initial investigation activities were initiated in 1986. Brief summaries relative to these previous activities are presented in Section 2. This section presents details relative to field activities completed during April through July 2008. Nine on-site and twenty-nine off-site soil boring locations were originally proposed in the OSIWP. Based on data obtained in the field, a total of fifty-two probeholes were completed (Figure 3-1).

Soil sampling was completed using a truck or track-mounted hydraulic hammer probe rig with Macro-Core samplers. The site engineer/geologist logged each sample and recorded information on field logging forms. Soil type, recovery, observations relative to odors and impacts were 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™ sampler or a 5-foot long, 1 ½-inch diameter MacroCore™ 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 30 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 34 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. 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 F.

Soil sampling rationale was to collect a minimum of three samples from each probehole location; one sample from 0- to 3-feet bgs, one sample from 3- to 10-feet bgs, and one sample below 10-feet. Additional samples were collected based on PID results and visual observations by the field geologist. In general, at least three samples were collected from each location, and four or five samples were collected from several locations. Details relative to the analytical program are presented in Sections 3.10 and 5.1. Table 4-1 presents a summary of soil parameters analyzed. The following paragraphs provide brief descriptions of locations where impact was observed during soil logging activities separated by area.

#### **North of MGP Site:**

*B-802:* Probehole B-802 was completed on April 15, 2008 to a total depth of 30.0 feet bgs at a location on the north side of the railroad right-of-way. Four soil samples were collected for chemical analysis. Two impacted zones were observed; one from approximately 8- to 13-feet bgs, and a second from 14- to 18-feet bgs. Analytical samples were collected from both impacted zones. Based on field measurements, the area with the highest PID reading was at 15.0 feet bgs. No visual or olfactory indications of impact were observed in soils below 25.0 feet bgs; therefore an additional sample was collected from 25- to 26-feet bgs for confirmation purposes.

*B-803:* Probehole B-803 was completed on May 7, 2008 at a location approximately 70.0 feet northeast of B-802. Four soil samples were collected for chemical analysis. MGP-like odors were observed from approximately 7- to 20-feet bgs. Visual impact was noted at a depth of 21- to 22-feet bgs. No odor or impact was observed in soils at 29.0 ft bgs. Samples were collected from 21- to 22-feet bgs and 29- to 30-feet bgs. Based on

field measurements, the interval with the highest PID level was 21- to 22-feet bgs. The boring was terminated at 30.0 feet bgs.

*B-835:* Probehole B-835 was completed on April 2, 2008 in the northern portion of the former MGP site. The boring was placed in approximately the same location as boring B-503 that was advanced during the 2004 CSI; therefore the top eighteen feet of B-835 was not logged. A coal tar-like substance and strong odors were observed in voids and fractures at a depth of approximately 27.0 feet bgs. Based on field measurements, the interval with the highest PID reading was from 28- to 29-feet bgs. The soil boring was terminated at a depth of 30.0 ft bgs.

*B-844:* Impact was observed in probehole B-802 along the railroad right-of-way; therefore, B-844 was drilled approximately forty feet north of B-802 to delineate the extent of impact on that property. B-844 was completed on May 6, 2008 to a total depth of 30.0 feet bgs. Three soil samples were collected for chemical analysis. MGP-like odors were observed from approximately 11.5- to 26-feet bgs. Visual impact was noted in voids and fractures from 15- to 18-feet bgs. Based on field measurements, the highest PID reading occurred at 15.0 feet. Soils below 26.0 feet bgs did not appear to be impacted. Probehole B-845 was drilled approximately thirty feet north of B-844, and no impact was observed.

*B-846:* Probehole B-846 was added during field activities as a result of impact observed in boring B-850 approximately thirty-five feet to the southeast. The probehole was completed on May 7, 2008 to a total depth of 30.0 feet bgs. Three soil samples were collected for chemical analysis. Visual impact was noted from 6- to 12-feet bgs. Based on field measurements, the interval with the highest PID level was 15- to 16-feet bgs. Soils below 18.0 feet bgs did not appear to be impacted. Boring B-848 was placed north of B-846 to delineate the extent of impact in that area. No impact was identified in B-848.

*B-847:* Probehole B-847 was drilled between two properties north of the railroad right-of-way in order to delineate extent of impact in that area. The probehole was completed on May 7, 2008 to a total depth of 30.0 feet bgs at a location north of the railroad right-of-way approximately 60 feet south of Washington Street. Three soil samples were collected for chemical analysis. Impacted soils were observed from 18.5- to 19-ft bgs, and from 22- to 23-feet bgs. The highest PID reading occurred at 19.0 feet bgs. As a result of impacts observed in B-847, two additional borings were drilled approximately 65.0 feet farther north. No impact was observed in either boring.

*B-849:* Probehole B-849 was completed on May 7, 2008 to a total depth of 30.0 feet bgs. The probehole was placed approximately twenty feet north of B-803 to further delineate that property area. Three soil samples were collected for chemical analysis. Coal tar-like odors were observed from 14- to 19-feet bgs. A coal tar staining was noted from 16- to 17-feet bgs. The highest PID reading occurred at 17.0 ft bgs. Soils below 18.0 feet bgs did not appear to be impacted.

*B-850:* Probehole B-850 was completed on May 8, 2008 to a total depth of 30.0 feet bgs at a location in the railroad right-of-way north of the Site. Three soil samples were collected for chemical analysis. Light impacts were noted from 14- to 14.5-feet bgs, and a heavily impacted sand lens was observed at 16.0 ft bgs. A coal tar staining was also

noted in fractures at 18.5 ft bgs. The interval with the highest PID level was at 17.0 feet bgs. Soils below 26.0 feet bgs did not appear to be impacted.

#### **South of MGP Site:**

*B-816:* Probehole B-816 was completed on April 1, 2008 to a total depth of 27.0 feet bgs at a location on-site along the southern property boundary. Slight petroleum-like odors were observed at a depth of 9.0 feet bgs; however, no visual impact was observed. Three soil samples were collected from the boring for chemical analysis.

*B-818:* Probehole B-818 was completed on April 1, 2008 to a total depth of 30.0 feet bgs at a location on-site south of gas holder GH-3 along the southern fence line. A coal tar-like odor and residual staining was observed at approximately 6.5 ft and heavily impacted zones were encountered from approximately 7.5- to 10.5-feet bgs and 12- to 15-feet bgs. Four soil samples were collected for chemical analysis. Based on field measurements, the interval with the highest PID level was 8- to 9-feet bgs. A very slight coal tar-like odor was observed to a depth of 30.0 feet. The boring was terminated at 30.0 feet bgs to avoid possible cross-contamination of soils beneath the till unit.

*B-822:* Probehole B-822 was completed on April 1, 2008 to a total depth of 30.0 feet bgs at a location approximately 130.0 feet west of B-818. A slight naphthalene-like odor was observed at 7.5 ft bgs, and a moderate oil-like odor was noted at approximately 9.5 ft bgs. No odor or impact was noted from 11- to 27-feet bgs. A very slight fuel oil-like odor was noted at approximately 27.0 feet. Four soil samples were collected for chemical analysis. Based on field measurements, the area with the highest PID level was 7.5 feet bgs.

*B-823:* Probehole B-823 was completed on April 1, 2008 to a total depth of 30.0 feet bgs in the southwest corner of the former MGP site. Three soil samples were collected for chemical analysis. A slight fuel-like odor was observed between 10- and 12-feet bgs, and slight residual staining was observed from 13.5- to 14-feet bgs. Based on field measurements, the highest PID level was at 14.0 feet bgs. Soils below 18.0 feet bgs did not appear to be impacted.

#### **West of MGP Site:**

*B-827:* Probehole B-827 was completed on April 2, 2008 at a location approximately 65.0 feet north of B-823. Moderate coal tar-like odors and light staining were observed at a depth of approximately 7.5- to 9.5-feet bgs. Light staining was also observed at a depth of 13.0 feet bgs. Four soil samples were collected for chemical analysis. Based on field measurements, the interval with the highest PID level was 7.5- to 8-feet bgs. Refusal was encountered at 28.5 feet bgs.

*B-828:* Probehole B-828 was completed on April 3, 2008 to a total depth of 26.8 feet bgs at a location east of 5<sup>th</sup> Street near the intersection of 5<sup>th</sup> and Hill Streets. Four soil samples were collected for chemical analysis. Coal tar-like odors were observed from depths of 9.0 to approximately 14.5 ft bgs. Based on field measurements, the interval with the highest PID level was 9- to 10-feet bgs. Soils below 15.0 feet bgs did not appear to be impacted. The boring was terminated at a depth of 26.8 ft bgs due to auger refusal.



*B-829:* Probehole B-829 was completed on April 2, 2008 to a total depth of 30.0 feet bgs approximately 55.0 feet north of B-827. Three soil samples were collected for chemical analysis. Residual staining and odor was observed at 5.5 ft, 11.0 ft, and 13.0 ft bgs. Odors were also noted from 14- to 29-feet bgs. The interval with the highest PID reading occurred at 6.5 feet bgs. Soils at 30.0 feet did not appear to be impacted.

*B-831:* Probehole B-831 was completed on April 3, 2008 at a location approximately 60.0 feet north of the intersection of 5<sup>th</sup> and Hill Streets along the 5<sup>th</sup> Street right-of-way. Four soil samples were collected for chemical analysis. Moderate MGP-like staining and odors were observed from approximately 8- to 11-feet bgs. Soils from 11- to 12-feet bgs were heavily impacted with a coal tar-like material. The highest PID reading occurred at 11.5 feet. A coal tar-like substance was also visible in voids and fractures from 12- to 13-feet bgs. Odors were observed to a depth of 22.0 ft bgs. The boring was terminated at a depth of 30.0 ft bgs.

*B-832:* Probehole B-832 was completed on April 4, 2008 to a total depth of 30.0 feet bgs at a location approximately 60.0 feet north of B-831. Slight hydrocarbon-like odors were observed at depths of 2.0 feet and 5.0 feet bgs, however no visual impact was noted. PID readings remained at zero throughout the entire boring.

*B-833:* Probehole B-833 was completed on April 2, 2008 at a location in the northwest corner of the former MGP site. Five soil samples were collected for chemical analysis. Impacts were noted in the 8- to 12-foot interval, and at 26.5 feet bgs. Based on field measurements, the area with the highest PID level was at 10.5 feet bgs. Soils below 30.0 feet bgs did not appear to be impacted. The boring was terminated at 33.0 ft bgs to avoid possible cross-contamination of soils beneath the till unit.

*B-838:* Probehole B-838 was added during field activities to delineate the area between B-830 and B-821. The probehole was completed on April 4, 2008 to a total depth of 30.0 feet bgs. Four soil samples were collected for chemical analysis. Moderate to heavy impacts were observed from 13.5- to 15-feet bgs. The highest PID reading was taken at a depth of 13.5 feet bgs.

*B-841:* Impact was observed in probehole B-838, however no impact was observed in adjacent probehole B-839. Probehole B-841 was added during field activities to delineate the extent of impact between those two probeholes. B-841 was completed on April 15, 2008 to a total depth of 22.0 feet bgs. The boring was logged from 10- to 22-feet bgs for comparison purposes with boring B-838 and to encounter the contaminated zone. No soil samples were collected for chemical analysis. Impacts were observed between 18- and 21-feet bgs. The interval with the highest PID level was from 18.5- to 19-feet bgs.

#### **Northwest of MGP Site:**

*B-834:* Probehole B-834 was completed on April 4, 2008 to a total depth of 30.0 feet bgs at a location along the west side of 5<sup>th</sup> Street near the railroad right-of-way. Five soil samples were collected for chemical analysis. A diesel-like odor was observed from approximately 4- to 10-feet bgs. Coal tar-like nodules and odors were observed from 14-

to 17.5-foot bgs. No impact was noted below 20.0 ft bgs. Based on field measurements, the interval with the highest PID level was at 17.0 feet bgs.

*B-836:* Probehole B-836 was completed on April 8, 2008 to a total depth of 30.0 feet bgs at a location northwest of the Site. During drilling, diesel-like impact was observed in the boring. Previous property knowledge, and visual and odor observations identified it as non-MGP related, therefore, the three samples collected were not analyzed. No MGP-like odors or impact were noted in the boring. Diesel-like odors were noted from approximately 6- through 18-feet in the boring. Light impact was noted at 12.0 feet. The interval with the highest PID reading occurred at 9- to 10-feet bgs. Soil below 18.0 feet bgs did not appear to be impacted.

*Summary:* Fifty-two probeholes were completed to depths ranging from twenty- two to thirty-four feet. One probehole (B-841) was completed to a depth of only twenty-two feet to verify the presence of an impacted depth zone. One probehole (B-835) was logged only from 18.0 to 30.0 ft bgs to verify findings from the 2004 CSI. Visual or olfactory indications of impact were observed in twenty-two of the fifty-one probeholes. Impacted probeholes to the north of the former MGP Site consisted of the following eight probeholes: B-802, B-803, B-835, B-844, B-846, B-847, B-849, and B-850. Four probeholes (B-816, B-818, B-822, and B-823) located south or along the southern boundary of the former MGP Site contained observable impact. Impacted probeholes to the west or along the western Site boundary consisted of the following borings: B-827, B-828, B-829, B-831, B-832, B-833, B-838, and B-841. Borings B-834 and B-836, located northwest of the Site, contained diesel-like impacts not representative of MGP operations. B-834 also contained MGP-like impact at the greater than 10-foot depth interval. Borings completed to the east of the former MGP Site did not contain any observable impacts. Impact tended to be both greater and deeper surrounding the northern and western portions of the Site, including within the railroad right-of-way to the north.

## **4.2 Monitoring Well Installation**

A total of five shallow monitoring wells were installed off-site to a depth of 15-foot bgs. Three of the wells were placed to the north of the railroad right-of-way (UMW 118, 119, and 120), one was placed approximately forty-five feet to the south of the MGP site boundary (UMW-121), and one well was placed approximately eighty feet west of the MGP (UMW-117). Well locations are illustrated on Figure 3-1. Each of the five shallow monitoring wells were installed using a track-mounted Geoprobe unit with 4.25-inch augers. The wells were screened from 5- to 15-feet in order to contact the shallow groundwater system.

A total of seven intermediate monitoring wells were installed off-site to a depth of 45-foot bgs, and one intermediate well was installed on-site in the former Hill Street right-of-way (UMW-304). One well (UMW-300) was installed approximately 175 feet north of the MGP boundary along Washington Street in the same location as boring B-851. A second well was placed in the former 6<sup>th</sup> Street right-of-way to the east of the Site



(UMW-301). A third well (UMW-305) was installed southeast of the Site near the intersection of 6<sup>th</sup> and Church Streets. Three wells (UMW-302, UMW-306, and UMW-307) were installed to the south of the former MGP. Well UMW-302 was placed south of the former MGP in the same area as UMW-121. Wells UMW-306 and UMW-307 were placed along the south side of Church Street. The seventh intermediate off-site well was placed along the 5<sup>th</sup> Street right-of-way west of the Site (UMW-303). The wells were installed using mud rotary with a screened interval from 35- to 45-feet bgs. Four of the wells were outer cased to a depth of approximately 29.5 feet bgs to prevent possible cross-contamination issues.

Wells were constructed of two-inch diameter PVC well screens and risers, with well screen slot size of 0.010 inches. The annular space was backfilled with sand pack to two feet above the top of the well screen. The remainder of the annular space was backfilled with bentonite grout. Each well was surged for 10 minutes after installation, and completed with a flush mount well protector. Well construction logs are included in Appendix C.

### **4.3 Well Development and Groundwater Sampling**

As discussed in previous sections, groundwater monitoring wells were installed during Site investigation activities completed in 1990 and 1991. An additional thirteen wells were installed during 2008. Since 1990, a total of twenty-nine wells have been installed on and adjacent to the Site. During the intervening period, five of those wells have been abandoned. Figure 3-1 shows the locations of the twenty-six wells currently included in the groundwater monitoring program.

Wells installed during the 2008 investigation were developed prior to sampling. A minimum of three well volumes were purged using whale pumps and disposable tubing. Water quality parameters of temperature, pH, conductivity, and turbidity were recorded during purging. Water was purged until parameters were within +/- 10%. Approximately five well volumes were purged from some shallow wells in order to achieve stabilization. Groundwater samples were collected approximately two weeks after installation.

Since 1999, monitoring wells have been sampled on a quarterly basis and analyzed for select MGP constituents (primarily BTEX constituents and naphthalene). Table 2-2 presents a summary of groundwater sample results from previous monitoring events. A total of twenty-three wells were sampled in May 2008, and three wells were sampled in July 2008. The wells were sampled using the low-flow technique described in Section 3.7. Twenty six samples, two duplicate samples, and a trip blank were submitted to the laboratory for analysis. Table 5-11 presents a summary of the groundwater sampling results. Samples were collected in accordance with the OSIWP and the quarterly groundwater monitoring plan. Copies of the analytical results and field data sheets are included in Appendix E.

#### **4.4 Laboratory Analytical Program**

The off-site analytical program has been presented in Section 3 along with sample handling procedures and sampling rationale. One hundred sixty one soil samples and four duplicate samples were collected for laboratory chemical analysis from the probeholes advanced in 2008. Table 4-1 presents a summary of analyses completed for these samples. Twenty-six groundwater samples and two duplicate samples were collected from both on-site and off-site monitoring wells in May and July 2008. 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 Sections 5 and 6 of this report.

Samples were protected from breakage and shipped in coolers. Coolers were transported and delivered under proper chain of custody to Teklab in Collinsville, Illinois. Ice was used to maintain a temperature of 4° C. A data quality objective (DQO) level III data package was delivered to PSC 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 investigation activities were containerized and stored on Site:

- Geoprobe – soils materials not used for analytical samples were placed in roll-off boxes;
- Well installation – soils materials and fluids generated during monitoring well installation were placed in roll-off boxes;
- Well development – water generated from development of monitoring wells was contained in 1,000-gallon poly tanks;
- Well purging – purge water from groundwater sampling was contained in 1,000-gallon poly tanks;
- Decontamination fluids – water and other fluids from equipment decontamination were contained on-site in 1,000-gallon poly tanks; and
- Disposable protective clothing and equipment was contained in roll-off boxes.

Upon completion of field activities all liquids and solids were sampled and analyzed for disposal parameters. Copies of the analytical results are included in Appendices D and E. Materials were subsequently disposed of at approved off-site facilities.

#### **4.6 Off-Site Investigation Quality Assurance Activities**

During 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 and depth designation. The specific designation for groundwater and soil samples was based upon the monitoring well 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:

- date and time of collection;
- location;
- depth interval (if applicable);
- sample number; and
- requested analyses.

All groundwater characterization samples were placed on ice immediately following field collection to lower the fluid temperature 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 daily field activities and personnel 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;
- personnel log – All PSC personnel, contractors, or oversight present on-site during investigation activities; and
- sampling data log – Documentation of soil impacts observed during logging procedures, pre-sampling well development/evacuation data (applies to sampling monitoring wells).

Site activity entries were completed on a daily basis to record all relevant Site investigation information. 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. The original field data sheets became part of the permanent file for the investigation, and copies are included in Appendix B.

## 5 CHEMICAL ANALYTICAL RESULTS

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Chemical analyses were performed on soil and groundwater samples obtained during off-site investigation activities completed during 2008. Samples were delivered under proper chain of custody to TekLab in Collinsville, Illinois. Analytical parameters included BTEX, PAHs, cyanide, metals (arsenic, chromium, and lead),  $f_{oc}$ , and pH. 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.

### 5.1 Analytical Program Summary

The off-site analytical program was developed to provide sufficient data to delineate off-site environmental impacts and facilitate comparison with Tier 1 ROs as presented in Tables 5-1 through 5-6. A third objective was to provide sufficient data to allow subsequent development of remedial objectives and a RAP.

Table 4-1 presents a summary of the offsite soil analytical program. The following is a summary of analyses completed for soil samples during the 2008 off-site investigation:

- BTEX (SW 846, Method 8260B) – 165 analyses
- PAHs (SW 846, Method 8270 SIMS) – 165 analyses
- Metals (SW 846, 6010B Series) – 63 analyses
- Cyanide (SW 846, Method 9010/9014) – 63 analyses
- Fraction Organic Content ( $f_{oc}$ ) (ASTM D2974-87) – 14 analyses
- pH (SW 846 Method 9045C) – 16 analyses
- OA1 (SW 846 8260B) – 1 analysis
- OA2 (SW 846 8015B) – 3 analyses

Based on the subsequent objective of evaluation in accordance with TACO guidance, the soil sample analytical data are divided into three general groups. These groups include surface (0- to 3-feet bgs), shallow subsurface (3- to 10-feet. bgs), and deep subsurface soils (greater than 10-feet bgs). The following subsections present a discussion of analytical results based on these depth intervals. A detailed evaluation of the results as compared to Tier 1 Remedial Objectives and exposure routes are presented in Section 6.

### 5.2 Surface Soil Results

Forty-four samples, not including two duplicates, were collected from the 0- to 3- foot depth interval during the investigation. All samples were analyzed for BTEX and PAHs, and twenty samples were analyzed for metals and cyanide.

### **5.2.1 BTEX and PAH Results**

Table 5-1 presents a summary of BTEX and PAH results for all surface soil samples collected during the off-site investigation activities. Laboratory analytical data sheets for all soil samples are presented in Appendix D.

One elevated benzene concentration was detected on-site in boring B-829 located along the western Site boundary within the area of former MGP operations. No elevated BTEX concentrations were detected in off-site soils in the 0- to 3-foot depth interval.

Elevated or high levels of PAHs were detected in nine (two on-site and six off-site) of the surface soil samples collected. One of the samples was collected on-site along the southern boundary near former gas holder GH-2 from boring B-818. A second sample containing elevated levels of PAHs was collected from boring B-829 located along the western Site boundary. The highest PAH concentrations were detected in a soil sample retained from boring B-831, located on the west side of 5<sup>th</sup> Street approximately seventy feet west of the former main area of operations.

### **5.2.2 Metals and Cyanide Results**

Table 5-2 presents results for metals and cyanide analyses for surface soil samples. Twenty surface soil samples were analyzed for arsenic, chromium, lead, and cyanide. Laboratory analytical data sheets are presented in Appendix D.

An elevated level of arsenic was detected in one surface soil sample collected from boring B-805, located to the north of the Site. Chromium was detected in one sample from boring B-839, located west of 5<sup>th</sup> Street approximately eighty feet west of the former main area of operations. Elevated lead levels were detected in seven soil samples. The highest lead concentration was detected in a soil sample retained from boring B-819, located south of the Site approximately sixty feet south of former gas holder GH-3.

## **5.3 Shallow Subsurface Soil Results**

Fifty-one samples were collected from the 3 to 10 ft depth interval during the 2008 investigation. All fifty-one samples were analyzed for BTEX and PAH constituents. Twenty-six samples were analyzed for arsenic, chromium, lead, and cyanide.

### **5.3.1 BTEX and PAH Results**

Table 5-3 presents a summary of BTEX and PAH results for all shallow subsurface soil samples collected during off-site investigation activities. Laboratory analytical data sheets for all shallow subsurface soil samples are presented in Appendix D.

Elevated benzene levels were detected in samples from four off-site soil boring locations and three on-site locations. The highest BTEX concentrations were detected in samples retained from off-site boring B-831 which is located west of the Site, and from on-site boring B-833 which is located along the western property boundary.

High PAH concentrations were detected in samples retained from borings B-800 and B-802 located to the north of the Site, boring B-831 located to the west of the Site, and boring B-833 located along the western boundary of the Site. Of the four borings, PAH concentrations from B-831 were the highest. No elevated PAH levels were detected to the south or east of the former MGP site in the 3- to 10-foot depth interval.

### **5.3.2 Metals and Cyanide Results**

Table 5-4 presents results of analyses for metals and cyanide for shallow subsurface soil samples. Twenty-six shallow subsurface soil samples were analyzed for arsenic, chromium, lead, and cyanide. Laboratory analytical data sheets are presented in Appendix D.

One slightly elevated chromium concentration was detected in a sample retained from boring B-839, located to the west of the Site. No high levels of metals or cyanide were identified in any other sample from the 3- to 10-foot depth interval.

## **5.4 Deep Subsurface Soil Results**

Sixty-eight soil samples, including two duplicates, were collected from a depth of greater than 10- feet bgs during the 2008 investigation. All sixty-eight samples were analyzed for BTEX and PAH constituents. Nineteen samples were analyzed for arsenic, chromium, lead, and cyanide.

### **5.4.1 BTEX and PAH Results**

Table 5-5 presents a summary of BTEX and PAH results for all deep subsurface soil samples collected during off-site investigation activities. Laboratory analytical data sheets for all soil samples are presented in Appendix D.

Elevated levels of one or more BTEX parameter was reported in twenty out of the sixty-eight deep subsurface soil samples. The highest BTEX concentrations were detected in samples retained from boring B-850, located to the north of the Site in the railroad right-of-way.

At least one elevated PAH constituent was reported in sixteen of the sixty-eight deep subsurface soil samples. The highest PAH concentrations were detected in samples retained from soil boring B-850.

### **5.4.2 Metals and Cyanide Results**

Table 5-6 presents results of analyses for metals and cyanide for deep subsurface soil samples. Nineteen deep subsurface soil samples were analyzed for arsenic, chromium, lead, and cyanide. Laboratory analytical datasheets are presented in Appendix D.

No elevated levels of metals or cyanide were detected in samples collected from the greater than 10-foot depth interval.



## 5.5 Total Petroleum Hydrocarbons

Visual and olfactory observations during logging of four soil borings north and northwest of the Site indicated a diesel-like substance present in surface and shallow subsurface soils. Based upon these observations, three soil samples were analyzed for total petroleum hydrocarbons (TPH).

Diesel fuel and motor oil were detected in soil samples retained from boring B-834. The gasoline range organics (GRO) concentration was 14.90 mg/kg. Diesel fuel was also detected in samples retained from borings B-847 and B-850, as well as motor oil in boring B-850. Copies of the analytical results for the analyses are included in Appendix D.

## 5.6 Groundwater Results

Twenty-six wells were sampled and analyzed for BTEX, PAHs, metals (arsenic, chromium, lead), and cyanide. Two duplicate samples were also collected for QA/QC purposes. Analytical results are presented in Table 5-11. Laboratory analytical data sheets are presented in Appendix E.

Samples collected from well UMW-114 (located on-site near former gas holder GH-3) contained elevated concentrations of benzene, ethylbenzene, naphthalene, and cyanide. Samples collected from well UMW-302 located south of the Site also contained elevated levels of benzene and naphthalene.

Groundwater results from the 2004 CSI are presented in Table 5-10 for comparison purposes.

## 5.7 QA/QC Analytical Summary

Duplicate samples were collected for both soil and groundwater samples. Duplicate soil samples are presented with off-site investigation sample results in Tables 5-1 through 5-6. It is noted that due to the lack of homogeneity of soil materials, duplication of analytical results is virtually impossible. In general, the 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 in the primary sample. Complete laboratory results for all duplicate soil samples are included in Appendix D. Analytical results for duplicate groundwater samples are included in Table 5-11. Laboratory QA/QC reports for all soil analyses are presented in Appendices D and E.

## 5.8 Geotechnical Parameters

Fourteen samples were analyzed for  $f_{oc}$  and sixteen samples were analyzed for pH during 2008. The laboratory results are presented on tables 5-7 through 5-9. Geotechnical data will be utilized for a vapor intrusion sampling event at a few residential locations that will be conducted as a follow up to the off-site investigation.



## **6 ENDANGERMENT ASSESSMENT**

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This section presents a summary of the history and findings from previous investigations in addition to the results of the off-site investigation activities as required in IAC Section 740.425(b)(5). 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 during the off-site investigation. 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). Gas was produced by coal carbonization, oil gasification, and carbureted water gas methods during various periods of operation. 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. Additional historical information for the former MGP was presented in the CSIR dated December 2007.

Based on historical data and observations during previous activities, RECs were identified and the 2004 CSI activities were completed to define those conditions. Figure 2-1 illustrates approximate locations of historical MGP structures on the Site. The following sections discuss environmental conditions that exist at the Site as determined during CSI activities.

#### **6.1.1 Former Tar Wells**

Three tar wells (TW1, TW2, and TW3) have been identified at the Site. TW1 and TW2 had diameters measuring approximately 10.7 feet. 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 containing metal rebar. The tops of TW1 and TW2 were located approximately two feet bgs, and their bottoms were located at approximately ten feet bgs. The walls and floors were constructed of brick and mortar. Tar well TW3 had a diameter measuring 19.3 feet wide, and a depth measuring 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 each of the three tar wells has been removed; therefore, these structures no longer serve as a source for continued release.

### **6.1.2 Former Tar Separator**

One tar separator was previously identified at the Site. The dimensions of the separator were approximately 10 feet in diameter with depths of 6 to 10.5 feet bgs. The walls and base were constructed of 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 floor of the separator consisted of only native clay till material. 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 previously identified at the Site. Purifier waste consisted mainly of wood shavings, coal, and cinders. Releases from purifiers would primarily have been cyanide and other inorganic constituents. The contents and pad structures have been removed; therefore, they no longer serve as a source for further release.

### **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 prior release of MGP related material could have occurred through the base or sidewalls of the structure or from underground piping going into the structure. The contents of GH-1 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, with confirmed presence of the structures including walls, valve pit, and piping. No solid bottom was encountered. CSI soil sample analytical results indicate significant levels of MGP impacts within the GH-2 gas holder tank. Potential environmental impacts related to this structure will be addressed in the ROR and RAP. This structure will be a primary focus during future remedial activities.

### **6.1.6 Former Gas Holder Tank GH-3**

Gas holder tank GH-3 was constructed between 1909 and 1915. Historical photographs indicate that the tank was constructed above grade on a concrete slab.

The foundation slab and both inlet and outlet valve pits were located during CSI activities. The bottom of the valve pits is about 8.5 feet bgs and both pits contained some tar-like liquid. Potential environmental impacts related to this structure will be addressed in the ROR and RAP.

### **6.1.7 Former Oil and Diesel Storage Tanks**

Seven above grade 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 northern AmerenIP property line extends from Sixth Street just north of vacated Hill Street northeast along the railway to the alley, and continues west along the alley to Fifth Street. 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 the north side of the railroad tracks. Impact was observed north of the railroad right-of-way during the 2008 off-site investigation activities; however, no potential point source was identified.

### **6.1.9 East Property Line and Former Gas Experiment Station**

The eastern property line extends from the railway south down the center of Sixth Street to the active alley. MGP-related impact was identified in a monitoring well 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. The gas main was used for the distribution of gas and is not believed to contain tar, but it will be investigated during the Remedial Action.

### **6.1.10 Vacated Hill Street Right-Of-Way**

Although no actual MGP operations 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 impacts identified during CSI activities in borings and test pits located within the right-of-way, Hill Street is

identified as a REC. 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 off-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 TACO 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 off-site for both soil and groundwater. The following subsections describe the degree and extent of the impacts with respect to depth and location relative to the former MGP site. The first five sections discuss the properties to the north, west, east, south, and northwest of the Site. The sixth subsection presents an evaluation of groundwater.

### **6.2.1 Properties North of the Former MGP**

Nineteen soil borings were drilled to the north of the railroad right-of-way north of the former MGP Site as illustrated in Figure 3-1. Samples were collected from each of the three depth intervals (0- to 3-feet bgs, 3- to 10-feet bgs, and greater than 10-feet bgs.) and analyzed for BTEX, PAHs, metals, and cyanide. The following subsections present the Tier 1 screening results for adjacent properties to the north by depth interval.

#### Surface Soil Impact Assessment (0- to 3-Feet)

Analytical results for BTEX and PAH constituents for surface soil samples collected during the 2008 off-site investigation are presented in Table 5-1. Constituents that exceed the Tier 1 ROs for inhalation, ingestion, and/or the soil to groundwater pathway for all property scenarios are identified. Results from the 2004 CSI for this area are included in the table for reference.

The boring B-800 sample from 2- to 3-feet contained ingestion exceedances for benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene. Samples collected from boring B-802 had benzo(b)fluoranthene and dibenzo(a,h)anthracene results that exceeded Tier 1 ROs for ingestion. Analytical results for both borings were marginally higher than the PAH background levels for metropolitan areas published by the IEPA. No BTEX constituents were found to exceed the ingestion RO for surface soils to the north of the MGP Site. Figure 6-1 identifies the boring locations that exceed one or more Tier 1 RO for BTEX and PAHs in surface soils. Given the ubiquitous nature of PAHs in the environment and the presence of several urban sources of PAHs in the immediate vicinity of the site, these PAHs are not necessarily attributable to the MGP.

Table 5-2 presents analytical results for metals and cyanide for surface soil samples. One ingestion exceedance for arsenic was identified in boring B-805 located north of the former MGP Site near the southwest corner of Sixth and Washington Streets.

Exceedances of the soil component to groundwater ingestion pathway for lead were identified at five locations north of the railroad right-of-way from borings B-803, B-804, B-805, B-844, and B-849. Figure 6-2 identifies the boring locations that exceed one or more Tier 1 RO for metals and cyanide in surface soils.

#### Shallow Subsurface Soil Impact Assessment (3- to 10-Feet)

Analytical results for BTEX and PAH constituents for shallow subsurface soil samples are presented in Table 5-3. Constituents that exceed the Tier 1 ROs for inhalation, ingestion, and/or the soil to groundwater pathway for all property uses are identified. Results from the 2004 CSI are also included.

Exceedances of the soil ingestion RO for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were identified in borings B-800 and B-802. Benzo(a)anthracene also exceeded the soil component to groundwater ingestion RO for both samples. Benzene was the only constituent that exceeded the Tier 1 RO for the soil inhalation exposure pathway, at only one location (B-802) with a concentration of 1.92 mg/kg.

One benzene exceedance was identified in boring B-846 from 8.5 to 9.5 feet bgs for the soil component to groundwater exposure pathway. Figure 6-3 identifies the boring locations that exceed one or more Tier 1 RO for BTEX and PAHs in shallow subsurface soils.

Table 5-4 presents analytical results for metals and cyanide for shallow subsurface soil samples collected during the off-site investigation. No exceedances of Tier 1 ROs were identified for shallow subsurface soils north of the MGP Site. Figure 6-4 identifies boring locations that exceed one or more Tier 1 RO for metals and cyanide in shallow subsurface soils.

#### Deep Subsurface Soil Impact Assessment (Greater Than 10-Feet)

Analytical results for BTEX and PAH constituents for deep subsurface soil samples are presented in Table 5-5. 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 from the 2004 CSI are also included. Analytical results for the deep subsurface soil samples identified greater extent of impact than samples from surface and shallow subsurface soils.

Exceedances of the ingestion and soil component to groundwater ROs for at least five constituents were identified at three locations: B-802, B-850, and B-835. Samples from B-802 (14.5'-15.5') and B-835 (28.0'-29.0') also had exceedances for the soil inhalation pathway for four constituents. Samples from B-850 (16.0'-17.0') contained inhalation exceedances for three constituents.

Soil component to groundwater and inhalation exceedances were identified in results from borings B-803, B-844, B-846, B-847, and B-849. Figure 6-5 identifies

the boring locations that exceed one or more Tier 1 RO for BTEX and PAHs in deep subsurface soils.

Table 5-6 presents analytical results for metals and cyanide for deep subsurface soil samples collected during the off-site investigation. No exceedances of Tier 1 ROs for metals or cyanide were identified in deep subsurface soils north of the Site.

### **6.2.2 Properties West of the Former MGP**

Fourteen soil borings were drilled to the west or along the western property boundary of the former MGP Site. Samples were collected from each of the three depth intervals (0- to 3-feet bgs, 3- to 10-feet bgs, and greater than 10-feet bgs) and were analyzed for BTEX, PAHs, metals, and cyanide. The following subsections present the Tier 1 screening results for adjacent properties to the west by depth interval.

#### Surface Soil Impact Assessment

Analytical results for BTEX and PAH constituents for surface soil samples collected during the off-site investigation are presented in Table 5-1. Soil samples collected from boring B-829 (2- to 3-feet) contained ingestion and soil component to groundwater exceedances for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and naphthalene. Benzene was the only BTEX constituent that exceeded the Tier 1 RO for soil component to groundwater in that sample.

Results from B-831 (1- to 3-feet) and B-833 (2- to 3-feet) had exceedances of five PAH constituents for the soil ingestion exposure pathway, and three constituents for the soil component to groundwater pathway. Figure 6-1 identifies the boring locations that exceed one or more Tier 1 RO for BTEX and PAHs in surface soils.

Table 5-2 presents analytical results for metals and cyanide for surface soils collected during the off-site investigation. The only exceedance of the soil component to groundwater pathway for chromium was identified in B-839 (2-to 3-feet). Figure 6-2 identifies the boring locations that exceed one or more Tier 1 RO for metals and cyanide in surface soils.

#### Shallow Subsurface Soil Impact Assessment (3- to 10-Feet)

Analytical results for BTEX and PAH constituents for shallow subsurface soil samples are presented in Table 5-3. Constituents that exceed the Tier 1 ROs for inhalation, ingestion, and/or the soil to groundwater pathway for all property uses are identified.

Exceedances of one or more Tier 1 RO were identified in borings B-828, B-829, B-831, and B-833. The greatest level of impact containing exceedances for the soil ingestion, inhalation, and soil component to groundwater ingestion pathways occurred in borings B-831 and B-833. Samples exceeded Tier 1 ROs for three or more constituents for every exposure pathway. Figure 6-3 identifies the boring



locations that exceed one or more Tier 1 RO for BTEX and PAHs in shallow subsurface soils.

Table 5-4 presents the analytical results for metals and cyanide for shallow subsurface soils. One chromium exceedance was identified to exceed the Tier 1 RO for the soil component to groundwater pathway in boring B-839. Figure 6-4 identifies the boring locations that exceed one or more Tier 1 RO for metals and cyanide in shallow subsurface soils.

*Deep Subsurface Soil Impact Assessment (Greater Than 10-Feet)*

Analytical results for BTEX and PAH constituents for deep subsurface soil samples are presented in Table 5-5. Constituents that exceed the Tier 1 RO for inhalation, ingestion, and/or the soil to groundwater pathway for all property use scenarios are identified. Extent of impact appeared to be greater in deep subsurface soils than in any other depth interval.

The greatest level of impact was identified in samples from B-831, B-833, and B-838. Tier 1 exceedances of eight or more constituents were identified in samples from all three borings. Figure 6-5 identifies the boring locations that exceed one or more Tier 1 RO for BTEX and PAHs in deep subsurface soils.

Table 5-6 presents the analytical results for metals and cyanide for deep subsurface soils. No Tier 1 exceedances were identified for metals and cyanide west of the MGP Site.

**6.2.3 Properties South of the Former MGP**

Twelve soil borings were drilled south or along the southern boundary of the MGP Site. Samples were collected from each of the three depth intervals (0- to 3-feet bgs, 3- to 10-feet bgs, and greater than 10-feet bgs) and analyzed for BTEX, PAHs, metals, and cyanide. The following subsections present the Tier 1 screening results for adjacent properties to the south by depth interval.

*Surface Soil Impact Assessment (0- to 3-Feet)*

Analytical results for BTEX and PAH constituents for surface soil samples collected during the off-site investigation are presented in Table 5-1. Constituents that exceed the Tier 1 ROs for inhalation, ingestion, and/or the soil component to groundwater pathway for all property scenarios are identified.

Tier 1 exceedances were identified in samples from two borings, B-818 and B-821. B-818 (2.0'-3.0') contained ingestion and soil component to groundwater exceedances for benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene. Exceedances for the soil ingestion exposure route for dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene were also identified. One exceedance for naphthalene was identified in B-821 for the soil inhalation exposure pathway. Figure 6-1 identifies boring locations that exceed one or more Tier 1 RO for surface soils.

Table 5-2 presents the analytical results for metals and cyanide for surface soil samples. Tier 1 lead exceedances were identified for the soil ingestion and soil component to groundwater exposure pathways in B-819. A lead exceedance was also identified in boring B-824 for the soil component to groundwater pathway. Figure 6-2 identifies the boring locations that exceed one or more Tier 1 RO for metals and cyanide in surface soils.

#### Shallow Subsurface Soil Impact Assessment (3- to 10-Feet)

Analytical results for BTEX and PAH constituents for shallow subsurface soil samples collected during the off-site investigation are presented in Table 5-3. Constituents that exceed the Tier 1 ROs for inhalation, ingestion, and/or the soil component to groundwater pathway for all property scenarios are identified.

One benzene exceedance for the soil component to groundwater exposure pathway was identified in boring B-818. It should be noted that the method detection limit for the sample is higher than the Tier 1 RO due to matrix interference and the exceedance may not be actual. No other exceedances were identified. Figure 6-3 identifies the boring locations that exceed one or more Tier 1 RO for BTEX and PAHs in shallow subsurface soils.

Table 5-4 presents the analytical results for metals and cyanide for shallow subsurface soil samples. No Tier 1 exceedances for metals and cyanide were identified south of the MGP Site. Figure 6-4 identifies the boring locations that exceed one or more Tier 1 RO for metals and cyanide in shallow subsurface soils.

#### Deep Subsurface Soil Impact Assessment (Greater Than 10-Feet)

Analytical results for BTEX and PAH constituents for deep subsurface soil samples are presented in Table 5-5. Constituents that exceed the Tier 1 RO for inhalation, ingestion, and/or the soil to groundwater pathway for all property use scenarios are identified.

Benzene exceedances for the soil component to groundwater pathway were identified in samples from borings B-817 and B-818. Benzene and naphthalene exceedances for the soil inhalation exposure pathway were also identified in boring B-818. No other BTEX or PAH exceedances were identified.

Table 5-6 presents the analytical results for metals and cyanide for deep subsurface soils. No exceedances were identified south of the MGP Site.

### **6.2.4 Properties East of the Former MGP**

Five soil borings were drilled to the east of the former MGP Site during the off-site investigation. Samples were collected from each of the three depth intervals (0- to 3-feet bgs, 3- to 10-feet bgs, and greater than 10-feet bgs.) and analyzed for BTEX, PAHs, metals, and cyanide. The following subsections present the Tier 1 screening results for adjacent properties to the east by depth interval.

#### Surface Soil Impact Assessment (0- to 3-Feet)

Exceedances of the soil ingestion exposure pathway were identified in soil samples collected from boring B-809. The exceedances were for the following four PAH constituents: benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. No other BTEX or PAH exceedances were identified east of the Site during the off-site investigation. Figure 6-5 identifies the boring locations that exceed one or more Tier 1 RO for BTEX and PAHs in surface soils.

Table 5-2 presents the analytical results for metals and cyanide for surface soils. No Tier 1 exceedances for metals and cyanide were identified east of the Site.

#### Shallow Subsurface Soil Impact Assessment (3- to 10-Feet)

Analytical results for BTEX and PAH constituents for shallow subsurface soil samples collected during the off-site investigation are presented in Table 5-4. Constituents that exceed the Tier 1 ROs for inhalation, ingestion, and/or the soil component to groundwater pathway for all property scenarios are identified. No BTEX or PAH exceedances were identified in shallow subsurface soils to the east of the Site during the off-site investigation.

Table 5-4 presents the analytical results for metals and cyanide for shallow subsurface soils. No Tier 1 exceedances were identified east of the Site.

#### Deep Subsurface Soil Impact Assessment (Greater Than 10-Feet)

Analytical results for BTEX and PAH constituents for deep subsurface soil samples are presented in Table 5-5. Constituents that exceed the Tier 1 RO for inhalation, ingestion, and/or the soil to groundwater pathway for all property use scenarios are identified. No BTEX or PAH exceedances were identified in deep subsurface soils to the east of the Site during the off-site investigation.

Table 5-6 presents the analytical results for metals and cyanide for deep subsurface soils. No Tier 1 exceedances were identified east of the Site.

### **6.2.5 Properties Northwest of the Former MGP**

Three borings (B-834, B-836, and B-837) were drilled to the northwest of the former MGP Site. Observations made during logging were the basis for performing additional analyses on these borings. A diesel-like substance was observed in the samples; therefore, samples were analyzed for diesel fuel, motor oil, mineral spirits, kerosene, methyl-tertiary-butyl-ether (MTBE) and gasoline range organics. Samples were also analyzed for BTEX and PAHs. Copies of the laboratory data sheets are included in Appendix D.

Exceedances for the soil inhalation exposure pathway were identified in sample B-834 (15- to 16-feet). One exceedance for the soil component to groundwater (benzene) was also identified. Boring B-834 also contained diesel fuel and motor oil above method detection limits as discussed in Section 5.

Boring B-836 was logged during the investigation; however, no samples were submitted to the laboratory for analysis due to its offset location and perceived non-MGP association. Observations by the site geologist during logging indicated diesel-like impact and odor.

No exceedances of Tier 1 ROs were identified in samples from boring B-837.

## **6.2.6 Potential Source Determination**

IAC Section 740.420(b)(2) requires characterization of source and potential sources of RECs. This section presents an evaluation of 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 the 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 Tables 6-2 and 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. 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.

### **6.2.7 Groundwater Assessment**

Groundwater monitoring wells were installed at and around the Site during the Phase II investigation, and a groundwater sampling plan has been in place since 1996. Thirteen additional wells were installed during the off-site investigation. The following sections present a summary of groundwater results from July 2004, September 2007, and May 2008. Additional groundwater data is presented in the CSIR.

#### 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 CSI groundwater sampling event are presented in Table 5-10. 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 5-10. Historical groundwater samples are also presented in Table 5-10.

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 ROs.

Phenanthrene and pyrene was detected in UMW-113 at concentrations that exceed their respective 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 are presented in Table 5-10. 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 5-10.

Benzene was detected in three 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.

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.

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

#### May 2008 Data

Groundwater impact has been identified in six of the wells installed during the Phase II investigation and in four of the wells installed during the off-site investigation.

Benzene was detected in five wells (UMW-107, UMW-110, UMW-114, UMW-302, and UMW-304) at concentrations that exceed the Class I RO. Ethylbenzene was detected in well UMW-114 with a concentration of 1.230 mg/L, which exceeds the Class I RO of 0.70 mg/L. No other BTEX constituents were identified above method detection limits.

Benzo(a)anthracene was detected in UMW-110 at a concentration (0.00019 mg/L) that exceeds the Class I RO. Naphthalene was detected above the Class I RO in UMW-114 and UMW-302. No other PAH constituents were identified in groundwater above method detection limits. It should be noted that laboratory method detection limits for some compounds are higher than Class I standards for groundwater.

One lead exceedance was identified in UMW-118, and cyanide exceedances were identified in wells UMW-106, UMW-107, UMW-110, UMW-113, UMW-114, UMW-115, and UMW-121.



## 7 CSI SUMMARY AND CONCLUSIONS

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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 and on adjacent off-site properties. 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 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 Soil Impact

Figures 6-1, 6-3, and 6-5 illustrate the results of the Tier 1 RO comparison for BTEX and PAH constituents for soil by depth interval. Boring locations that exceed Tier 1 ROs for one or more exposure pathway are highlighted in red. These figures illustrate the wide spread nature of soil impact. Impact is present on some residential properties to the north, west, and south and commercial properties to the east of the Site. Off-site impacts appear greater in concentration and area to the north and west of the Site, which is consistent with the direction of shallow groundwater flow.

### 7.2 Vertical Extent of Soil Impact

Analytical results and field observations indicate that the highest levels of impact are present in the deep subsurface soils (greater than 10-feet in depth.) Nine borings north of the Site contained MGP residual impact at greater than 10-feet; three borings had impact in the 3- to 10-foot depth, and two contained impact in the 0- to 3-foot depth interval.

Three borings west of the Site contained impact in the 0- to 3-foot depth interval, four borings were impacted in the 3- to 10-foot depth interval, and five contained impact in the greater than 10-foot depth interval,

Two borings located south of the Site contained MGP residual impact on the 0- to 3-foot depth interval; one boring had impact in the 3- to 10-foot depth interval, and two borings contained impact in the greater than 10-foot depth interval.

Only one boring east of the Site (B-809) had residual impact. Exceedances for four PAH constituents were identified in the 0- to 3-foot depth interval.

Boring B-834 located northwest of the Site exhibited MGP residual impacts in two depth zones: 11.5- to 12.5-feet and 15- to 16-feet.

### **7.3 Groundwater Impact**

Groundwater impact was detected in ten wells during the off-site investigation, including one off-site well to the north and east, two off-site wells to the south and west, and four on-site wells. Impact was identified at both shallow and intermediate depths.

MGP-related constituents identified in groundwater consisted of benzene, ethylbenzene, benzo(a)anthracene, naphthalene, cyanide, and lead. Benzene was detected in three off-site wells at concentrations that exceed the Class I RO for groundwater. Ethylbenzene was detected in only one on-site well (UMW-114) located south of former gas holder GH-3. Benzo(a)anthracene was detected in samples from only one off-site well (UMW-110) located immediately east of the former "Gas Experiment Station of the University of Illinois." Naphthalene was detected in one on-site well (UMW-114) and one off-site well (UMW-302) at concentrations that exceed the Class I RO. Cyanide was detected in seven wells, including four off-site wells and three on-site wells. Lead was detected in only one off-site well (UMW-118) located north of the Site.

### **7.4 Meeting No Further Remediation Requirements**

AmerenIP has presented to the IEPA an evaluation of the extent of off-site MGP impact surrounding the former MGP site at 308 N. 5<sup>th</sup> Street in Champaign, Illinois. The extent is based upon a comparison of analytical results to the TACO Tier 1 Remedial Objectives. Measures that may be implemented to address off-site impact include the following:


- Calculation of Tier 2 or Tier 3 ROs;
- Remediation through excavation and disposal of impacted soils;
- Vapor Intrusion evaluation for residential properties;
- Implementation of engineered barriers, Highway Authority Agreements (HWA) for MGP related impact under 5<sup>th</sup> and 6<sup>th</sup> Streets, Environmental Land Use Controls (ELUCs), and/or prohibiting the use of groundwater underlying the Site.

Proposed remedial activities to be implemented in order to meet NFR requirements will be discussed in detail in the subsequent ROR and RAP.

## 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:   
Derek D. Ingram, P.E., P.G.  
Licensed Professional Geologist

Date: 8-22-08

License No. 196-000718/0062-051578

License Expiration Date: 3-31-09/11-30-09



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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

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

**SOIL**

**Inorganics**

Cyanide

**Metals**

Chromium

Lead

Arsenic

**Volatile Aromatics**

Benzene

Ethylbenzene

Toluene

Total Xylenes

**Polycyclic Aromatic Hydrocarbons**

Acenaphthylene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(k)fluoranthene

Dibenzo (a,h,)anthracene

Indeno(1,2,3,cd)pyrene

Naphthalene

Phenanthrene

**GROUNDWATER**

**Inorganics**

Cyanide

**Metals**

Lead

**Volatile Aromatics**

Benzene

Ethylbenzene

**Polycyclic Aromatic Hydrocarbons**

Benzo(a)anthracene

Naphthalene

**TABLE 2-1  
SINGLE WELL HYDRAULIC CONDUCTIVITY TEST RESULTS  
PHASE II SI  
CHAMPAIGN MGP SITE  
CHAMPAIGN, ILLINOIS  
AMERENIP**

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

bgs - below ground surface

Table 2-2  
Groundwater Sample Analytical Results: BTEX and Naphthalene  
Groundwater Monitoring Report: 1999

Illinois Power Company  
Champaign Former MGP Site  
Champaign, Illinois

Monitoring Well	Sampling Date	Concentration ug/L						
		Benzene 5	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000	Total BTEX	Naphthalene 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	is	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)	ND(5)	0.0	ND(10)
	03/02/04	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	05/25/04	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	07/26/04	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(3)
	12/06/04	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
	03/15/05	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
06/09/05	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
09/27/05	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
12/27/05	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
03/30/06	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
06/22/06	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
09/19/06	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
12/13/06	ND(2)	ND(5)	ND(5)	ND(5)	1.1	1.1	ND(10)	
03/26/07	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	0.00013	
06/14/07	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
09/21/07	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
12/19/07	ND(2)	ND(5)	ND(5)	ND(5)	ND(5)	0.0	ND(10)	
05/22/08		<0.0020	<0.0050	<0.0050	<0.0050	0	<0.0001	
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)	
	05/22/08	<0.0020	<0.0050	<0.0050	<0.0050	0	<0.0001	
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)	
	05/21/08	<0.0020	<0.0050	<0.0050	<0.0050	0	<0.0001	
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)	
	05/21/08	<0.0020	<0.0050	<0.0050	<0.0050	0	<0.0001	

Table 2-2  
Groundwater Sample Analytical Results: BTEX and Naphthalene  
Groundwater Monitoring Report: 1999

Illinois Power Company  
Champaign Former MGP Site  
Champaign, Illinois

Monitoring Well	Sampling Date	Concentration ug/L					Total BTEX	Naphthalene	
		Benzene 5	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000				
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
	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
	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
	12/19/07	1,230	58	J	ND(500)	ND(250)		#VALUE!	100
	05/20/08	0.236	0.0082		<0.025	0.014		0.26	<0.0399

Table 2-2  
Groundwater Sample Analytical Results: BTEX and Naphthalene  
Groundwater Monitoring Report: 1999

Illinois Power Company  
Champaign Former MGP Site  
Champaign, Illinois

Monitoring Well	Sampling Date	Concentration ug/L						
		Benzene 5	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000	Total BTEX	Naphthalene 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)		
12/19/07	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)		
05/20/08	<0.0020	<0.0050	<0.0050	<0.0050	0	<0.0001		
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)	
05/20/08	<0.0020	<0.0050	<0.0050	<0.0050	0	<0.0001		
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	
	05/22/08	0.0132	0.0387	0.0014	0.0353	0.886	0.00645	

Table 2-2  
 Groundwater Sample Analytical Results: BTEX and Naphthalene  
 Groundwater Monitoring Report: 1999

Illinois Power Company  
 Champaign Former MGP Site  
 Champaign, Illinois

Monitoring Well	Sampling Date	Concentration ug/L					Total BTEX	Naphthalene
		Benzene 5	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000			
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)		
12/19/07	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)		
05/20/08	<0.0020	<0.0050	<0.0050	<0.0050	0	<0.0001		
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	is	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)	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)	1.1	3.3	
	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)		



Table 2-2  
 Groundwater Sample Analytical Results: BTEX and Naphthalene  
 Groundwater Monitoring Report: 1999

Illinois Power Company  
 Champaign Former MGP Site  
 Champaign, Illinois

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

Table 2-2  
Groundwater Sample Analytical Results: BTEX and Naphthalene  
Groundwater Monitoring Report: 1999

Illinois Power Company  
Champaign Former MGP Site  
Champaign, Illinois

Monitoring Well	Sampling Date	Concentration ug/L					
		Benzene 5	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000	Total BTEX	Naphthalene 140
Tier 1 Remedial Objective							
	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)
	12/19/07	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)
<b>UMW-113</b>	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
	05/22/08	0.0035	0.0017	<0.005	0.001	0.0062	0.00068
<b>UMW-114</b>	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
	12/19/07	1230	977	160	J 907	3274.00	5640

Table 2-2  
 Groundwater Sample Analytical Results: BTEX and Naphthalene  
 Groundwater Monitoring Report: 1999

Illinois Power Company  
 Champaign Former MGP Site  
 Champaign, Illinois

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
	05/20/08	1.320	1.230	0.150	1.01	3.71	4.61

Table 2-2  
Groundwater Sample Analytical Results: BTEX and Naphthalene  
Groundwater Monitoring Report: 1999

Illinois Power Company  
Champaign Former MGP Site  
Champaign, Illinois

Monitoring Well	Sampling Date	Concentration ug/L							
		Benzene 5	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000	Total BTEX	Naphthalene 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)		
12/19/07	3.9	ND(5)		ND(5)	ND(5)	ND(5)	ND(10)		
05/20/08	0.0116	<0.005		<0.005	<0.005	0.116	<0.00010		

Table 2-2  
Groundwater Sample Analytical Results: BTEX and Naphthalene  
Groundwater Monitoring Report: 1999

Illinois Power Company  
Champaign Former MGP Site  
Champaign, Illinois

Monitoring Well	Sampling Date	Concentration ug/L					Total BTEX	Naphthalene	
		Benzene 5	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000				
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(2)	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)			
12/19/07	ND(2)	ND(5)	ND(5)	ND(5)	0.0	ND(10)			
05/20/08	<0.0020	<0.0050	<0.0050	<0.0050	0	<0.0001			

d)uplicate sample for QA/QC.  
S)ery outside accepted recovery limits  
J)centration below method detection limit.  
Is) laboratory for quality assurance and quality control.  
ND)st Detected (Detection Limit).  
--) Not Applicable.  
\*)r; carryover in capillary column from other samples.  
NA) Not analyzed  
\*\*)nalytical results using Methods 8260/or 8310  
UMW-111A placement well for UMW-111.

Table 2-3  
 Hydraulic Conductivity Test Results for the Intermediate Sand Unit

Champaign MGP Off-Site Investigation  
 Champaign, Illinois

Monitoring Well	Field Test Methods	Data Analysis Method	Hydraulic Conductivity	
			cm/s	ft/day
UMW-301	PVC slug	Bouwer and Rice (1976)	8.63E-02	244.6
UMW-302	PVC slug	Bouwer and Rice (1976)	8.13E-02	230.5
UMW-303	PVC slug	Bouwer and Rice (1976)	2.80E-02	79.4
UMW-304	PVC slug	Bouwer and Rice (1976)	5.20E-02	147.4
<b>Geometric Mean Hydraulic Conductivity</b>			<b>4.85E-02</b>	<b>137.5</b>

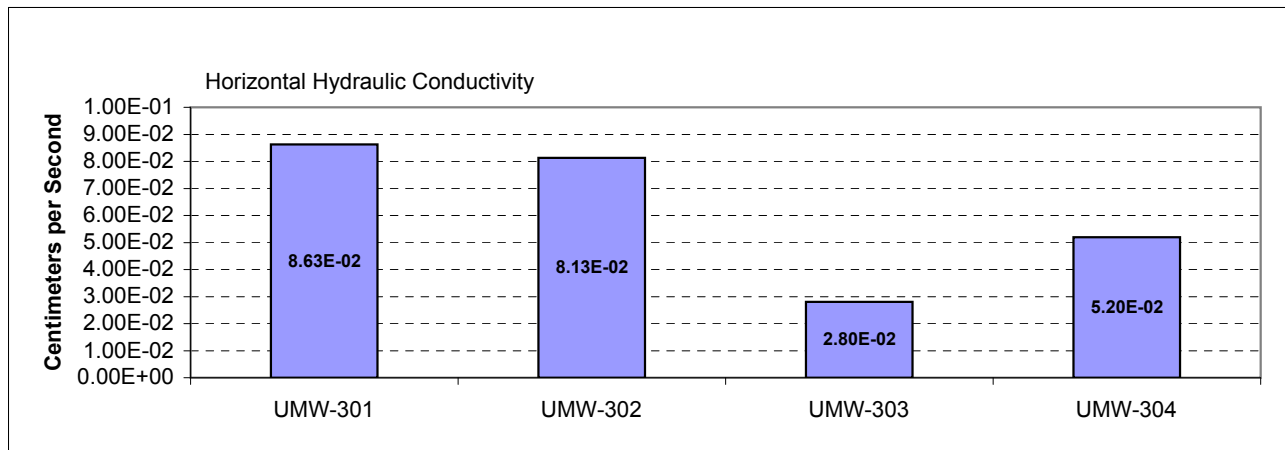




Table 3-1

**MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA  
CHAMPAIGN MGP SITE  
CHAMPAIGN, ILLINOIS**

<b>MW / PZ NUMBER</b>	<b>DATE INSTALLED</b>	<b>TOTAL DEPTH FEET (BGS)</b>	<b>CONSTRUCTION TYPE</b>	<b>SCREEN INTERVAL FEET (BGS)</b>	<b>SURFACE ELEVATION</b>
UMW-117	4/15/2008	15.0	PVC-2"	5.0 - 15.0	737.81
UMW-118	4/14/2008	15.0	PVC-2"	5.0 - 15.0	736.43
UMW-119	5/7/2008	15.0	PVC-2"	5.0 - 15.0	737.09
UMW-120	4/9/2008	15.0	PVC-2"	5.0 - 15.0	737.53
UMW-121	4/16/2008	15.0	PVC-2"	5.0 - 15.0	738.80
UMW-300	5/8/2008	45.0	PVC-2"	35.0 - 45.0	736.79
UMW-301	5/6/2008	45.0	PVC-2"	35.0 - 45.0	736.43
UMW-302	4/15/2008	45.0	PVC-2"	35.0 - 45.0	738.88
UMW-303	4/17/2008	45.0	PVC-2"	35.0 - 45.0	737.38
UMW-304	4/16/2008	45.0	PVC-2"	35.0 - 45.0	738.37

PVC - Polyvinyl Chloride.

SS - Stainless Steel.

BGS - Below Ground Surface.

**TABLE 3-2  
SUMMARY OF LABORATORY TEST RESULTS**

AMERENIP  
CHAMPAIGN, ILLINOIS  
PROJECT NUMBER: 62403053

Boring Number	Depth (Feet)	Moisture Content (Percent) ASTM D 2216	Dry Unit Weight (pcf) ASTM D 2937*	Specific Gravity ASTM D 854	Total Porosity (Percent) ASTM D 653*
B-845	0.5 - 1.0	32.1	79.2	2.565	50.6
B-845	2.5 - 3.0	29.8	91.4	2.729	46.3
B-851	14.5 - 15.0	11.9	128.2	2.747	25.3
B-851	19.5 - 20.0	11.7	128.7	2.733	24.6

\* As described in listed test methods

ASTM American Society for Testing and Materials  
pcf Pounds per cubic foot

**Table 4-1  
Champaign Former MGP  
2008 Off-Site Investigation Soil Analytical Summary**

Boring Number	Date Completed	Depth (Feet)	Teklab WO Number	Analytical Parameters							
				BTEX	PAHs	Metals*	CN**	f <sub>oc</sub>	pH	OA1	OA2
B - 800	4/14/2008	2 - 3	08040620	X	X	X	X	X	X		
	4/14/2008	9 - 10	08040620	X	X			X	X		
	4/14/2008	11.5 - 12.5	08040620	X	X			X	X		
B - 801	4/8/2008	2 - 3	08040412	X	X					X	
	4/8/2008	9 - 10	08040412	X	X					X	
	4/8/2008	25 - 26	08040412	X	X					X	
B - 802	4/15/2008	2 - 3	08040620	X	X						
	4/15/2008	8.5 - 10	08040620	X	X	X	X				
	4/15/2008	14.5 - 15.5	08040620	X	X	X	X				
	4/15/2008	25 - 26	08040620	X	X						
B - 803	5/7/08	2.0 - 3.0	08050415	X	X	X	X				
	5/7/08	9.0 - 10.0	08050415	X	X	X	X				
	5/7/08	21.0 - 22.0	08050415	X	X	X	X				
	5/7/08	29.0 - 30.0	08050415	X	X						
B - 804	4/8/2008	1.5 - 2.5	08040412	X	X	X	X				
	4/8/2008	8.5 - 9.5	08040412	X	X	X	X				
	4/8/2008	15 - 16	08040412	X	X						
B - 805	4/9/2008	1 - 2	08040412	X	X	X	X				
	4/9/2008	7 - 8	08040412	X	X	X	X				
	4/9/2008	13 - 14	08040412	X	X	X	X				
B - 806	4/8/2008	2 - 3	08040412	X	X						
	4/8/2008	8.5 - 9.5	08040412	X	X			X			
	4/8/2008	11 - 12	08040412	X	X	X	X	X			
B - 807	4/8/2008	2 - 3	08040412	X	X						
	4/8/2008	8.5 - 9.5	08040412	X	X	X	X				
	4/8/2008	13 - 14	08040412	X	X	X	X		X		
B-807 DUP	4/8/2008	2 - 3	08040412	X	X						
B - 808 Boring Not Completed											
B - 809	5/8/08	2.0 - 3.0	08050415	X	X	X	X			X	
	5/8/08	9.0 - 10.0	08050415	X	X	X	X			X	
	5/8/08	15.0 - 16.0	08050415	X	X	X	X				
B - 810 Boring Not Completed											
B - 811	5/5/08	2.0 - 3.0	08050415	X	X	X	X				
	5/5/08	9.0 - 10.0	08050415	X	X	X	X				
	5/5/08	11.0 - 12.0	08050415	X	X	X	X				
B - 812	5/5/08	1.0 - 2.0	08050415	X	X						
	5/5/08	9.0 - 10.0	08050415	X	X						
	5/5/08	11.0 - 12.0	08050415	X	X						
B - 813	4/7/2008	2 - 3	08040412	X	X						
	4/7/2008	6 - 7	08040412	X	X						
	4/7/2008	11-12	08040412	X	X						
B - 814	4/1/2008	0 - 2	08040186	X	X	X	X	X			
	4/1/2008	7 - 8	08040186	X	X	X	X	X			
	4/1/2008	17 - 18	08040186	X	X						
B - 815	4/7/2008	2 - 3	08040412	X	X	X	X				
	4/7/2008	7 - 8	08040412	X	X	X	X				
	4/7/2008	25 - 26	08040412	X	X	X	X				
B - 816	4/1/2008	1 - 2	08040186	X	X						
	4/1/2008	9 - 10	08040186	X	X						
	4/1/2008	19 - 21	08040186	X	X						
B - 817	4/7/2008	2 - 3	08040412	X	X	X	X	X	X		
	4/7/2008	8 - 9	08040412	X	X	X	X	X	X		
	4/7/2008	26 - 27	08040412	X	X	X	X		X		
B - 818	4/1/2008	2 - 3	08040186	X	X						
	4/1/2008	7 - 9	08040186	X	X	X	X				
	4/1/2008	13 - 15	08040186	X	X	X	X				
	4/1/2008	24 - 26	08040186	X	X						
B - 819	4/7/2008	2 - 3	08040412	X	X	X	X				
	4/7/2008	8.5 - 9.5	08040412	X	X	X	X				
	4/7/2008	28 - 29	08040412	X	X	X	X				

**Table 4-1  
Champaign Former MGP  
2008 Off-Site Investigation Soil Analytical Summary**

Boring Number	Date Completed	Depth (Feet)	Teklab WO Number	Analytical Parameters								
				BTEX	PAHs	Metals*	CN**	f <sub>oc</sub>	pH	OA1	OA2	
B - 820	4/4/2008	1 - 2	08040238	X	X							
	4/4/2008	8.5 - 9.5	08040238	X	X							
	4/4/2008	25 - 26	08040238	X	X							
B - 821	4/4/2008	0.5 - 3	08040238	X	X							
	4/4/2008	9 - 10	08040238	X	X							
	4/4/2008	19 - 20	08040238	X	X							
B - 822	4/1/2008	1 - 3	08040186	X	X	X	X					
	4/1/2008	6 - 8	08040186	X	X	X	X					
	4/1/2008	7 - 8	08040184	X	X							
	4/1/2008	13 - 15	08040184	X	X	X	X					
	4/1/2008	27 - 28	08040184	X	X							
B - 823	4/1/2008	3 - 4	08040184	X	X							
	4/1/2008	9 - 10	08040184	X	X							
	4/1/2008	13 - 15	08040184	X	X							
B - 824	4/4/2008	1 - 3	08040238	X	X	X	X					
	4/4/2008	9 - 10	08040238	X	X	X	X					
	4/4/2008	23 - 24	08040238	X	X	X	X					
B - 825	4/3/2008	2 - 3	08040238	X	X							
	4/3/2008	8 - 9	08040238	X	X							
	4/3/2008	18 - 19	08040238	X	X							
	4/3/2008	25 - 26	08040238			X	X					
B - 826	4/3/2008	2 - 3	08040238	X	X							
	4/3/2008	8 - 9	08040238	X	X				X			
	4/3/2008	16 - 17	08040238	X	X				X			
B-827	4/2/2008	2 - 3	08040187	X	X							
	4/2/2008	7 - 8	08040187	X	X							
	4/2/2008	12 - 13	08040187	X	X							
	4/2/2008	26 - 28	08040187	X	X							
B-827 DUP	4/2/2008	12 - 13	08040187	X	X							
B-828	4/3/2008	2 - 3	08040238	X	X							
	4/3/2008	9 - 10	08040238	X	X							
	4/3/2008	12 - 13	08040238	X	X							
	4/3/2008	17 - 18	08040238	X	X							
B-828 DUP	4/3/2008	2 - 3	08040238	X	X							
B-829	4/2/2008	2 - 3	08040185	X	X							
	4/2/2008	6 - 7	08040185	X	X	X	X					
	4/2/2008	21 - 22	08040185	X	X							
B-830	4/3/2008	2 - 3	08040238	X	X							
	4/3/2008	8 - 9	08040238	X	X							
	4/3/2008	28 - 30	08040238	X	X	X	X					
B-831	4/3/2008	1 - 3	08040238	X	X	X	X					
	4/3/2008	9 - 10	08040238	X	X	X	X					
	4/3/2008	10.5 - 12.0	08040238	X	X							
	4/3/2008	18 - 20	08040238	X	X							
B-832	4/4/2008	2 - 3	08040238	X	X	X	X					
	4/4/2008	7 - 8	08040238	X	X	X	X		X			
	4/4/2008	20 - 21	08040238	X	X							
B-833	4/2/2008	2 - 3	08040185	X	X							
	4/2/2008	9 - 10	08040185	X	X	X	X					
	4/2/2008	10 - 12	08040185	X	X							
	4/2/2008	25 - 26	08040185	X	X							
	4/2/2008	31 - 32	08040185	X	X							
B-833 DUP	4/2/2008	10 - 12	08040185	X	X							
B-834	4/4/2008	1 - 2	08040412	X	X							
	4/4/2008	6 - 7	08040412	X	X							
	4/4/2008	11 - 12.5	08040412	X	X					X	X	
	4/4/2008	15 - 16	08040412	X	X							
	4/4/2008	21 - 22	08040412	X	X							
B-835	4/3/2008	28 - 29	08040238	X	X	X	X					
B-836	Logged: No Samples Collected											
B-837	4/14/2008	0.5 - 2	08040620	X	X	X	X					
	4/14/2008	9 - 10	08040620	X	X	X	X					
	4/14/2008	12 - 13	08040620	X	X							

**Table 4-1  
Champaign Former MGP  
2008 Off-Site Investigation Soil Analytical Summary**

Boring Number	Date Completed	Depth (Feet)	Teklab WO Number	Analytical Parameters								
				BTEX	PAHs	Metals*	CN**	f <sub>oc</sub>	pH	OA1	OA2	
B-838	4/4/2008	1 - 2	08040238	X	X							
	4/4/2008	9 - 10	08040238	X	X							
	4/4/2008	15 - 16	08040238	X	X							
	4/4/2008	29 - 30	08040238	X	X							
B-839	4/14/2008	2 - 3	08040620	X	X	X	X					
	4/14/2008	6 - 7	08040620	X	X	X	X					
	4/14/2008	16 - 17	08040620	X	X							
B-840	4/15/2008	1 - 2	08040620	X	X							
	4/15/2008	7 - 8	08040620	X	X							
	4/15/2008	18 - 19	08040620	X	X							
B-841 Logged; No Samples Collected												
B-842 Boring Not Completed												
B-843	5/6/2008	2.0 - 3.0	08050415	X	X	X	X					
	5/6/2008	7.0 - 8.0	08050415	X	X	X	X					
	5/6/2008	10.0 - 11.0	08050415	X	X							
B-844	5/6/2008	1.0 - 2.0	08050415	X	X	X	X					
	5/6/2008	8.0 - 9.0	08050415	X	X	X	X					
	5/6/2008	15.0 - 16.0	08050415	X	X							
B-845	5/6/2008	0.0 - 2.0	08050896						X			
	5/6/2008	2.0 - 4.0	08050896						X			
	5/6/2008	6.0 - 7.0	08050415	X	X	X	X					
	5/6/2008	13.0 - 14.0	08050415	X	X							
B-846	5/7/2008	8.5 - 9.5	08050415	X	X							
	5/7/2008	10.0 - 11.0	08050415	X	X							
	5/7/2008	20.0 - 21.0	08050415	X	X							
B-847	5/7/2008	6.0 - 7.0	08050415	X	X							
	5/7/2008	22.0 - 23.0	08050415	X	X							X
	5/7/2008	29.0 - 30.0	08050415	X	X							
B-848	5/7/2008	2.0 - 3.0	08050415	X	X							
	5/7/2008	9.0 - 10.0	08050415	X	X							
	5/7/2008	13.0 - 14.0	08050415	X	X							
B-849	5/7/2008	0.0 - 1.0	08050415	X	X	X	X					
	5/7/2008	9.0 - 10.0	08050415	X	X	X	X					
	5/7/2008	16.0 - 17.0	08050415	X	X	X	X					
B-850	5/8/2008	8.0 - 9.0	08050415	X	X	X	X					
	5/8/2008	16.0 - 17.0	08050415	X	X	X	X					X
	5/8/2008	25.0 - 26.0	08050415	X	X							
B-851	5/9/2008	14.0 - 16.0	08050896						X			
	5/9/2008	19.0 - 20.0	08050896						X			
	5/9/2008	19.0 - 20.0	08050415	X	X							
B-852	5/9/2008	2.0 - 3.0	08050415	X	X	X	X					
	5/9/2008	9.0 - 10.0	08050415	X	X			X	X			
	5/9/2008	23.0 - 24.0	08050415	X	X							
B-853	6/23/2008	2.0 - 3.0	08060976	X	X							
	6/23/2008	4.0 - 5.0	08060976	X	X							
	6/23/2008	29.0 - 30.0	08060976	X	X							
B-854	6/24/2008	2.0 - 3.0	08060976	X	X							
	6/24/2008	7.0 - 8.0	08060976	X	X							
	6/24/2008	38.0 - 39.0	08060976	X	X							
B-855	6/26/2008	2.0 - 3.0	08060976	X	X							
	6/26/2008	6.0 - 7.0	08060976	X	X							
	6/26/2008	33.0 - 34.0	08060976	X	X							
<b>TOTAL NUMBER OF SAMPLES COLLECTED:</b>				156	156	63	63	14	16	1	4	
*Metals include: arsenic, chromium, and lead. ** Total and amenable cyanide												

**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-800	B-801	B-802	B-803	B-804	B-805	B-806	B-807
	Residential	Commercial	Construction	Residential	Commercial	Construction				B800 (2.0-3.0)	B801 (2.0-3.0 ft)	B802 (2.0-3.0 ft)	B803 (2.0-3.0 ft)	B804 (1.5-2.5 ft)	B805(1.0-2.0 ft)	B806(2.0-3.0 ft)	B807(2.0-3.0 ft)
	4/14/2008	4/8/2008	4/15/2008	5/7/2008	4/8/2008	4/9/2008				4/8/2008	4/8/2008	4/8/2008	4/8/2008	4/8/2008	4/8/2008	4/8/2008	
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	0.002	<0.0012	0.0037	0.0019	<0.0011	<0.0012	<0.0012	0.0024
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0059	0.0015	0.0022	0.0069	<0.0056	<0.0058	<0.0062	0.0018
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	<0.0059	0.0024	0.0049	0.0039	<0.0056	<0.0058	0.002	0.0013
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	<0.0059	0.0048	0.0048	0.0107	<0.0056	<0.0058	0.002	0.0015
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.107	<0.009	<0.102	0.008	<0.004	<0.004	<0.004	<0.022
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	1.43	0.073	0.835	0.023	0.009	<0.004	<0.004	0.066
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.10	0.074	0.452	0.023	0.005	<0.004	<0.004	0.081
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	1.12	0.216	1.64	0.086	0.033	0.007	0.006	0.316
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	2.42	0.206	2.04	0.105	0.040	0.005	0.005	0.372
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	2.5	0.279	2.98	0.131	0.056	0.009	0.007	0.478
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	1.65	0.094	1.33	0.066	0.025	0.005	0.004	0.242
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.943	0.103	1.0	0.045	0.020	<0.004	<0.004	0.165
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	1.19	0.236	1.8	0.096	0.038	0.005	0.004	0.361
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.495	0.033	0.421	0.017	0.007	<0.004	<0.004	0.063
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.876	0.489	3.67	0.173	0.059	0.009	0.007	0.676
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.107	0.025	0.097	0.007	<0.004	<0.004	<0.004	0.030
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	1.43	0.101	1.22	0.059	0.024	0.004	<0.004	0.215
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	<0.107	0.019	0.122	0.034	0.007	<0.004	<0.004	0.024
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.206	0.335	2.46	0.105	0.025	0.004	<0.004	0.459
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	1.31	0.396	4.21	0.171	0.055	0.009	0.007	0.625

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.



**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-807 DUP	B-809	B-811	B-812	B-813	B-814	B-815	B-816
	Residential	Commercial	Construction	Residential	Commercial	Construction				3807 (2.0-3.0 ft) Du <sub>1</sub>	B809 (2.0-3.0 ft)	B811 (2.0-3.0 ft)	B812 (1.0-2.0 ft)	B813 (2.0-3.0 ft)	B814 (0.0-2.0')	B815 (2.0-3.0 ft)	B816 (1.0-2.0')
	4/8/2008	5/8/2008	5/5/2008	4/7/2008	4/1/2008	4/7/2008				2.0-3.0 ft	2.0-3.0 ft	2.0-3.0 ft	1.0-2.0 ft	2.0-3.0 ft	0.0-2.0'	2.0-3.0 ft	1.0-2.0'
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	0.0012	0.0016	0.0036	<0.0011	<0.0012	<0.0019	<0.0011	<0.0015
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0059	<0.0075	0.0022	<0.0058	<0.0093	<0.0055	<0.0055	0.0027
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	<0.0059	0.0028	0.0073	0.0014	<0.0058	<0.0093	<0.0055	0.0034
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	<0.0059	0.0062	0.0076	<0.0057	<0.0058	<0.0093	<0.0055	0.0022
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.008	0.153	<0.004	<0.005	<0.041	<0.063	<0.004	<0.009
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	0.012	0.061	0.012	<0.005	0.126	0.823	<0.004	0.086
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.008	0.157	0.020	<0.005	0.071	0.188	<0.004	0.031
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.055	1.11	0.073	0.008	0.296	0.770	<0.004	0.086
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.061	2.84	0.083	0.008	0.32	1.09	<0.004	0.108
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.082	2.78	0.102	0.011	0.472	1.55	<0.004	0.157
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.037	2.26	0.047	0.007	0.235	1.04	<0.004	0.124
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.031	0.907	0.035	<0.005	0.146	0.491	<0.004	0.051
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	0.057	1.24	0.08	0.006	0.393	1.08	<0.004	0.121
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.014	0.551	0.014	<0.005	0.058	0.244	<0.004	0.028
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.084	1.4	0.127	0.007	0.702	1.15	<0.004	0.139
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.008	0.049	0.005	<0.005	<0.041	0.081	<0.004	0.009
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.035	2.03	0.046	0.005	0.196	0.828	<0.004	0.098
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	0.008	0.136	0.004	<0.005	<0.041	0.077	<0.004	0.014
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.034	0.716	0.055	<0.005	0.497	0.549	<0.004	0.088
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.078	1.34	0.105	0.008	0.663	1.57	<0.004	0.175

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

---- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-817	B-818	B-819	B-820	B-821	B-822	B-824	B-825
	Residential	Commercial	Construction	Residential	Commercial	Construction				B817 (2.0-3.0 ft)	B818 (2.0-3.0')	B819 (2.0-3.0 ft)	B820(1.0-2.0 ft)	B821(0.5-3.0 ft)	B822 (1.0-3.0')	B824 (1.0-3.0')	B825 (2.0-3.0')
	4/7/2008	4/1/2008	4/7/2008	4/4/2008	4/4/2008	4/3/2008				2.0-3.0 ft	2.0-3.0'	2.0-3.0 ft	1.0-2.0 ft	(0.5-3.0 ft)	1.0-3.0'	1.0-3.0'	2.0-3.0'
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	<0.0011	0.0183	<0.0011	0.0013	0.0017	<0.0012	<0.0011	<0.0012
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0057	<0.0063	<0.0056	<0.006	<0.0046	<0.0058	<0.0055	<0.0059
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	<0.0057	0.0025	<0.0056	<0.006	0.0021	<0.0058	<0.0055	<0.0059
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	<0.0057	<0.0063	<0.0056	<0.006	<0.0046	<0.0058	0.0013	0.0019
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.422	<0.008	<0.004	<0.042	<0.004	<0.042	0.010
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	0.039	6.48	0.015	0.011	0.140	0.188	0.115	0.040
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.006	0.711	0.009	<0.004	0.198	0.011	0.041	0.038
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.007	4.13	0.069	0.008	0.220	0.016	0.208	0.029
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.024	11.2	0.081	0.006	0.229	0.026	0.199	0.018
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.021	9.29	0.103	0.017	0.106	0.052	0.193	0.014
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.042	8.03	0.058	0.012	0.098	0.051	0.141	0.006
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.006	2.70	0.039	0.006	0.130	0.015	0.204	0.015
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	0.004	4.95	0.076	0.008	0.197	0.016	0.218	0.025
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.008	1.83	0.015	<0.004	<0.042	0.014	0.049	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.007	3.18	0.106	0.012	0.362	0.017	0.314	0.066
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	0.39	<0.008	<0.004	0.120	0.007	<0.042	0.048
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.03	5.95	0.051	0.010	0.077	0.043	0.132	0.007
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	<0.004	0.815	0.008	0.005	2.22	0.010	<0.042	0.109
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	<0.004	0.881	0.042	0.007	0.588	0.011	0.116	0.116
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.014	6.85	0.106	0.014	0.535	0.027	0.303	0.053

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

---- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-826	B-827	B-828	B-828 DUP	B-829	B-830	B-831	B-832
	Residential	Commercial	Construction	Residential	Commercial	Construction				B826 (2.0-3.0')	B827 (2.0-3.0')	B828 (2.0-3.0')	B828 (2.0-3.0') DUP	B829 (2.0-3.0')	B830 (2.0-3.0')	B831 (1.0-3.0')	B832 (2.0-3.0')
										4/3/2008	4/2/2008	4/3/2008	4/3/2008	4/2/2008	4/3/2008	4/3/2008	4/3/2008
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	<0.0011	<0.0016	0.0014	0.0021	0.0533	<0.0013	0.0021	0.0062
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0056	<0.008	<0.0063	<0.0065	0.0013	<0.0064	<0.0067	<0.0069
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	<0.0056	<0.008	<0.0063	<0.0065	0.0028	<0.0064	<0.0067	0.0015
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	<0.0056	<0.008	0.0018	0.0016	0.006	<0.0064	<0.0067	<0.0069
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.189	0.032	0.285	0.076
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.004	0.010	<0.004	<0.004	0.318	0.075	4.24	0.332
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	0.009	<0.004	<0.004	0.331	0.086	4.99	0.718
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	0.033	0.014	0.012	2.16	0.429	10.7	1.29
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	0.026	0.011	0.012	2.25	0.500	8.77	1.26
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	0.026	0.017	0.018	2.80	0.660	11.80	1.59
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.004	0.016	0.009	0.010	1.29	0.342	4.05	0.637
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	0.028	0.005	0.006	1.11	0.251	4.51	0.585
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	0.034	0.012	0.012	2.12	0.487	11.2	1.19
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	0.007	<0.004	<0.004	0.422	0.105	1.55	0.230
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	0.054	0.028	0.017	2.92	0.771	25.8	2.44
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.172	0.028	1.33	0.338
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	0.016	0.008	0.009	1.28	0.316	4.54	0.629
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	<0.004	<0.004	<0.004	0.004	0.074	0.037	0.466	1.12
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	<0.004	0.035	0.010	0.008	1.16	0.338	18.7	1.90
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.004	0.049	0.023	0.015	2.69	0.638	19.2	1.95

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059

Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-833	B-834	B-837	B-838	B-839	B-840	B-843	B-844
	Residential	Commercial	Construction	Residential	Commercial	Construction				B833 (2.0-3.0') 4/2/2008	B834 (1.0-2.0 ft) 4/7/2008	B837 (0.5-2.0 ft) 4/14/2008	B838 (1.0-2.0 ft) 4/4/2008	B839 (2.0-3.0 ft) 4/14/2008	B840 (1.0-2.0 ft) 4/15/2008	B843 (2.0-3.0 ft) 5/6/2008	B844 (1.0-2.0 ft) 5/6/2008
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	0.017	<0.001	0.0013	<0.0015	<0.0014	0.002	<0.0011	<0.0012
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.006	<0.005	<0.0054	<0.0073	<0.0071	<0.0067	<0.0055	<0.0060
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0025	<0.005	0.0015	<0.0073	<0.0071	<0.0067	<0.0055	<0.0060
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0021	0.0011	0.0011	<0.0073	<0.0071	<0.0067	<0.0055	<0.0060
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.402	0.005	<0.021	<0.004	<0.004	<0.005	<0.004	<0.009
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	4.15	0.004	0.137	0.019	<0.004	0.062	<0.004	0.035
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	1.59	0.007	0.108	0.039	<0.004	0.018	<0.004	0.026
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	5.10	0.017	0.664	0.113	0.005	0.134	<0.004	0.119
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	8.10	0.012	0.785	0.094	<0.004	0.169	<0.004	0.135
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	9.26	0.017	0.986	0.128	0.006	0.232	<0.004	0.169
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	7.21	0.007	0.509	0.046	<0.004	0.120	<0.004	0.084
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	2.63	0.005	0.357	0.049	<0.004	0.082	<0.004	0.06
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	6.02	0.02	0.697	0.117	<0.004	0.144	<0.004	0.144
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	1.39	<0.004	0.165	0.018	<0.004	0.037	<0.004	0.023
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	7.53	0.03	0.980	0.270	<0.004	0.220	<0.004	0.23
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.528	0.004	0.020	0.010	<0.004	0.006	<0.004	0.012
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	5.23	0.006	0.484	0.049	<0.004	0.113	<0.004	0.077
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	0.37	0.008	0.059	0.006	<0.004	0.011	<0.004	0.011
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	3.80	0.090	0.343	0.163	<0.004	0.073	<0.004	0.162
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	12.3	0.035	0.878	0.200	<0.004	0.194	<0.004	0.232

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-848	B-849	B-852	B-853	B-854	B-855	B-501	B-502
	Residential	Commercial	Construction	Residential	Commercial	Construction				B848 (2.0-3.0 ft)	B849 (0.0-1.0 ft)	B852 (2.0-3.0 ft)	B853 (2.0-3.0 ft)	B854 (2.0-3.0 ft)	B855 (2.0-3.0 ft)	B-501-2	B-502-3
										5/7/2008 2.0-3.0	5/7/2008 0.0-1.0	5/9/2008 2.0-3.0	6/23/2008 2.0-3.0	6/24/2008 2.0-3.0	6/26/2008 2.0-3.0	7/13/2004 1'-2'	7/13/2004 2'-3'
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	0.0013	0.0012	0.0012	0.001	<0.001	<0.001	0.0019	0.0034
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0057	<0.0053	<0.0056	0.0019	<0.005	<0.0049	<0.0011	0.0021
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	<0.0057	0.0011	<0.0056	0.0017	<0.005	<0.0049	<0.0011	0.0055
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	<0.0057	<0.0053	0.0017	0.0022	<0.005	<0.0049	<0.0011	0.0065
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.012	<0.029
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	0.024	0.010	0.005	0.011	0.004	0.005	0.078	0.034
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.011	0.006	<0.004	0.007	0.005	0.005	0.041	<0.029
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.067	0.033	0.020	0.031	0.021	0.018	0.270	0.110
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.089	0.039	0.023	0.037	0.019	0.02	0.360	0.160
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.103	0.058	0.032	0.05	0.026	0.028	0.490	0.230
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.050	0.025	0.015	0.026	0.011	0.015	0.210	0.120
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.032	0.020	0.011	0.017	0.012	0.013	0.190	0.084
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	0.075	0.043	0.023	0.04	0.021	0.021	0.320	0.120
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.013	0.007	0.004	0.007	0.005	0.007	0.061	<0.029
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.091	0.062	0.036	0.055	0.035	0.034	0.440	0.110
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.012	<0.029
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.042	0.024	0.014	0.022	0.011	0.014	0.240	0.084
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	0.014	0.006	<0.004	<0.004	<0.004	<0.004	0.033	0.120
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.053	0.035	0.016	0.032	0.017	0.022	0.170	0.078
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.111	0.064	0.032	0.057	0.031	0.030	0.440	0.140

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-503	B-504	B-505	B-506	B-507	B-508	B-509	B-510
	Residential	Commercial	Construction	Residential	Commercial	Construction				B-503-3 7/13/2004 2'-3'	B-504-3 7/13/2004 2'-3'	B-505-3 7/14/2004 2'-3'	B-506-3 7/22/2004 2'-3'	B-507-1 7/21/2004 0-1'	B-508-3 7/19/2004 2'-3'	B-509-3 7/21/2004 2'-3'	B-510-2 7/12/2004 1'-2'
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	13.9	0.0877	0.0477	3.820	0.005	0.0282	0.0142	0.0312
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	4.24	0.0321	0.149	1.390	0.0011	0.0018	0.004	0.0022
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	6.28	0.0383	0.0313	3.320	0.0039	0.0071	0.0112	0.0076
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	9.92	0.0653	0.139	5.480	0.0032	0.0063	0.0112	0.0081
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<44.0	0.610	6.90	1.30	0.110	0.390	<0.120	<2.30
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<49.0	0.150	70.0	18.0	1.0	5.40	1.20	<2.50
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	51.0	0.460	15.0	4.50	0.510	1.70	0.330	<2.20
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	69.0	0.250	45.0	18.0	0.950	5.90	1.50	2.90
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	67.0	0.190	140.0	49.0	2.0	23.0	3.30	3.20
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	76.0	0.210	120.0	56.0	1.70	19.0	3.50	4.50
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<41.0	0.064	38.0	17.0	0.650	7.40	1.60	<2.20
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<36.0	0.086	33.0	16.0	0.530	4.50	1.0	<1.80
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	62.0	0.240	47.0	23.0	1.10	8.10	2.0	3.60
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<36.0	0.025	13.0	5.20	0.170	1.80	0.410	<1.90
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	120.0	0.680	37.0	18.0	1.50	8.20	2.0	3.70
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<43.0	0.430	9.90	2.80	0.250	0.750	0.120	<2.20
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<39.0	0.081	41.0	17.0	0.610	6.30	1.40	<2.00
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	71.0	6.80	21.0	11.0	0.60	1.20	0.290	<2.70
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	130.0	1.10	18.0	10.0	1.80	2.90	0.820	2.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	110.0	0.52	96.0	30.0	2.30	16.0	3.10	5.80

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.



**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-512	B-513	B-514	B-515	B-516	B-550	B-551	B-553
	Residential	Commercial	Construction	Residential	Commercial	Construction				B-512-3 7/12/2004 2'-3'	B-513-2 7/12/2004 1'-2'	B-514-3 7/22/2004 2'-3'	B-515-2 7/16/2004 1'-2'	B-516-3 7/22/2004 2'-3'	B-550-3 7/20/2004 2'-3'	B-551-3 7/15/2004 2'-3'	B-553-3 7/14/2004 2'-3'
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	0.0083	0.0076	0.0326	0.0043	0.0051	0.0058	0.972	0.195
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0013	<0.0011	0.0174	0.0213	0.0054	0.0136	0.282	0.200
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0049	0.0032	0.0103	0.003	0.0045	0.0038	0.244	0.370
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0038	0.0018	0.0254	0.0264	0.0065	0.0259	0.276	0.456
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.330	0.052	<1.90	1.10	<1.80	<12.0	3.70	8.50
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	1.23	0.10	2.60	1.90	40.0	<13.0	14.0	26.0
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	1.74	0.220	2.40	1.0	9.70	<11.0	20.0	8.40
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	2.87	0.80	4.60	2.20	42.0	<9.40	52.0	10.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	2.94	0.820	5.90	4.0	120.0	<8.60	68.0	55.0
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	4.31	1.30	7.60	4.40	130.0	<8.80	83.0	50.0
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	1.34	0.310	3.80	1.30	50.0	<11.0	28.0	26.0
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	1.50	0.490	2.70	1.30	36.0	<9.30	25.0	12.0
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	3.23	0.930	4.90	2.80	62.0	<9.90	51.0	18.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.43	0.120	<1.50	0.350	14.0	<9.50	9.0	5.0
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	7.83	1.70	6.30	3.30	27.0	19.0	93.0	17.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	1.07	0.051	1.90	0.720	4.0	12.0	7.10	7.80
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	1.62	0.40	3.40	1.20	47.0	<10.0	33.0	21.0
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	0.58	0.052	<2.20	1.80	10.0	<14.0	8.40	2.20
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	5.99	0.840	6.50	3.30	8.70	14.0	47.0	9.40
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	6.02	1.300	8.50	5.70	67.00	21.0	76.0	27.0

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059

Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1  
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-554	B-556	B-557	B-558	B-559	B-560	B-561	B-562
	Residential	Commercial	Construction	Residential	Commercial	Construction				B-554-3 7/15/2004 2'-3'	B-556-3 7/20/2004 2'-3'	B-557-1 7/20/2004 0-1'	B-558-2 7/19/2004 1'-2'	B-559-3 7/19/2004 2'-3'	B-560-3 7/16/2004 2'-3'	B-561-1 7/15/2004 0-1'	B-562-1 7/15/2004 0-1'
Benzene	12	100	2,300	1	1.6	2.20	0.03	---	(mg/kg)	0.180	0.0103	0.0053	0.0023	0.0007	0.0619	0.0046	0.0087
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.256	0.0115	0.0021	0.0045	<0.0010	0.0023	0.0032	0.0037
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.211	0.0262	0.0036	0.0072	<0.0010	0.0126	0.0044	0.0086
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.624	0.0416	0.0052	0.0118	0.002	0.0067	0.0086	0.0099
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<3.0	1.40	0.170	<0.450	<0.024	0.180	<0.320	0.076
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	9.20	5.90	0.880	<0.500	<0.024	8.40	1.0	0.510
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<2.80	4.40	0.620	<0.420	<0.024	1.30	0.570	0.260
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<2.40	6.40	3.60	0.450	0.140	8.60	2.30	1.40
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	8.50	18.0	5.20	0.50	0.190	36.0	4.10	2.30
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	8.20	13.0	6.0	0.610	0.270	27.0	5.50	3.70
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	8.50	6.10	2.70	<0.420	0.110	13.0	2.10	0.540
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<2.40	3.70	1.90	<0.360	0.088	7.90	2.0	1.40
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	4.30	7.90	3.80	0.450	0.150	11.0	3.40	1.70
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<2.50	1.50	0.72	<0.370	0.042	4.20	0.610	0.180
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	4.60	9.20	6.30	0.690	0.190	11.0	4.70	2.40
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<2.90	3.90	0.11	<0.440	<0.024	0.98	0.34	0.093
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	4.40	5.30	2.50	<0.400	0.110	12.0	2.20	0.640
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	<3.50	5.30	0.98	<0.530	0.037	1.90	0.45	0.230
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	3.30	9.90	2.80	<0.380	0.067	3.0	2.10	0.860
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	8.50	18.0	6.0	0.650	0.170	32.0	4.20	2.20

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

---- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-2  
Metals and Cyanide - 0 to 3 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil							Sample Location:								
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample ID:	B-800	B-803	B-804	B-805	B-809	B-811
	Residential	Commercial	Construction	Residential	Commercial	Construction				B800 (2.0-3.0)	B803 (2.0-3.0)	B804 (1.5-2.5)	B805 (1.0-2.0)	B809 (2.0-3.0)	B811 (2.0-3.0)
								Sample Date:	4/14/2008	5/7/2008	4/8/2008	4/9/2008	5/8/2008	5/5/2008	
								Sample Depth (feet):	2.0-3.0	2.0-3.0	1.5-2.5	1.0-2.0	2.0-3.0	2.0-3.0	
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg	6.22	5.49	4.34	23.2	4.34	2.81	
Chromium	230	6,100	4100	270	420	690	28	mg/kg	16.5	21.2	24.0	22.1	7.08	20.0	
Lead	400	800	700	---	---	---	107	mg/kg	74.4	145.0	111.0	233.0	48.5	16.8	
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg	<0.61	<0.57	<0.65	<0.62	<0.61	<0.63	
Cyanide (total)	---	---	---	---	---	---	---	mg/kg	0.39	0.37	<0.65	0.36	1.23	0.32	

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-2  
Metals and Cyanide - 0 to 3 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

<b>Tier 1 Remediation Objectives - Soil</b>										Sample Location:					
<b>CONSTITUENT</b>	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample ID:	B-814	B-815	B-817	B-819	B-822	B-824
	Residential	Commercial	Construction	Residential	Commercial	Construction				B814 (0.0-2.0)	B815 (2.0-3.0)	B817 (2.0-3.0)	B819 (2.0-3.0)	B822 (1.0-3.0)	B824 (1.0-3.0)
								Sample Date:	4/1/2008	4/7/2008	4/7/2008	4/7/2008	4/1/2008	4/4/2008	
								Sample Depth (feet):	0.0-2.0	2.0-3.0	2.0-3.0	2.0-3.0	1.0-3.0	1.0-3.0	
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg	5.29	5.68	4.16	6.16	3.45	6.31	
Chromium	230	6,100	4100	270	420	690	28	mg/kg	23.4	23.7	20.2	22.6	24.9	18.6	
Lead	400	800	700	---	---	---	107	mg/kg	53.3	18.8	30.8	443.0	17.3	131.0	
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg	<0.92	<0.63	<0.63	<0.58	<6.24	<0.61	
Cyanide (total)	---	---	---	---	---	---	---	mg/kg	6.58	<0.63	1.34	18.1	52.4	<0.61	

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-2  
Metals and Cyanide - 0 to 3 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

<b>Tier 1 Remediation Objectives - Soil</b>										Sample Location:					
<b>CONSTITUENT</b>	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample ID:	B-831	B-832	B-837	B-839	B-843	B-844
	Residential	Commercial	Construction	Residential	Commercial	Construction				B831 (1.0-3.0)	B832 (2.0-3.0)	B837 (0.5-2.0)	B839 (2.0-3.0)	B843 (2.0-3.0)	B844 (1.0-2.0)
	Sample Date:	4/3/2008	4/4/2008	4/14/2008	4/14/2008	5/6/2008				5/6/2008					
	Sample Depth (feet):	1.0-3.1	2.0-3.0	0.5-2.0	2.0-3.0	2.0-3.0	1.0-2.0								
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg		6.5	4.16	5.95	5.34	3.16	9.60
Chromium	230	6,100	4100	270	420	690	28	mg/kg		12.2	17	19.0	32.2	27.0	20.20
Lead	400	800	700	---	---	---	107	mg/kg		87.4	74.2	85.2	19.3	27.3	150.0
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg		<0.63	<0.65	<0.59	<0.60	<0.62	<0.60
Cyanide (total)	---	---	---	---	---	---	---	mg/kg		0.72	7.52	0.48	<0.62	<0.60	0.51

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-2  
Metals and Cyanide - 0 to 3 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

<b>Tier 1 Remediation Objectives - Soil</b>											
<b>CONSTITUENT</b>	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample Location: Sample ID: Sample Date: Sample Depth (feet):	B-849	B-852
	Residential	Commercial	Construction	Residential	Commercial	Construction				B849 (0.0-1.0)	B852 (2.0-3.0)
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg		2.0	4.62
Chromium	230	6,100	4100	270	420	690	28	mg/kg		27.5	23.5
Lead	400	800	700	---	---	---	107	mg/kg		107.0	51.9
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg		<0.60	<0.63
Cyanide (total)	---	---	---	---	---	---	---	mg/kg		0.52	<0.63

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-800	B-801	B-802	B-803	B-804	B-805
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B800 (9.0-10.0')	B801 (9.0-10.0')	B802 (8.5-10.0')	B803 (9.0-10.0')	B804 (8.5-9.5')	B805 (7.0-8.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	4/14/2008	4/8/2008	4/15/2008	5/7/2008	4/8/2008	4/9/2008
										Sample Depth (feet):	9.0-10.0	9.0-10.0	8.5-10.0	9.0-10.0	8.5-9.5	7.0-8.0
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		0.0018	0.0027	1.92	0.0008	0.004	0.0033
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		<0.0045	0.0023	3.11	<0.0052	0.0036	0.0022
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		0.0034	0.0063	0.11	<0.0052	0.010	0.0065
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		0.0011	0.006	3.99	<0.0052	0.0109	0.0042
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		<0.040	0.013	9.50	0.026	<0.004	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		0.300	0.022	9.63	0.008	<0.004	<0.004
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		0.304	<0.004	8.89	0.018	<0.004	<0.004
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		2.09	<0.004	5.15	0.015	<0.004	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		2.56	<0.004	4.59	0.012	<0.004	<0.004
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		3.03	<0.004	3.66	0.01	<0.004	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		1.41	<0.004	1.59	0.005	<0.004	<0.004
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		1.13	<0.004	1.09	<0.004	<0.004	<0.004
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		2.17	<0.004	5.2	0.014	<0.004	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		0.484	<0.004	0.591	<0.004	<0.004	<0.004
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		3.14	<0.004	10.4	0.025	<0.004	<0.004
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		0.062	<0.004	9.83	0.015	<0.004	<0.004
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		1.42	<0.004	1.28	0.004	<0.004	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		0.177	<0.004	24.3	0.062	<0.004	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		1.02	<0.004	31.5	0.063	<0.004	<0.004
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		3.02	<0.004	15.1	0.037	<0.004	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.



**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-806	B-807	B-809	B-811	B-812	B-813
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B806 (8.5-9.5')	B807 (8.5-9.5')	B809 (9.0-10.0')	B811 (9.0-10.0')	B812 (9.0-10.0')	B813 (6.0-7.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	4/8/2008	4/8/2008	5/8/2008	5/5/2008	5/5/2008	4/7/2008
										Sample Depth (feet):	8.5-9.5	8.5-9.5	9.0-10.0	9.0-10.0	9.0-10.0	6.0-7.0
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		<0.0009	0.0022	0.0016	<0.008	0.003	0.0038
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		<0.0046	0.0017	<0.0043	<0.0042	0.0021	0.0042
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		0.0018	0.005	0.0014	<0.0042	0.0071	0.0112
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		0.0016	0.0036	<0.0043	<0.0042	0.005	0.0117
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		<0.004	<0.004	<0.004	0.008	<0.004	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		<0.004	<0.004	<0.004	0.017	<0.004	<0.004
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-814	B-815	B-816	B-817	B-818	B-819
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B814 (7.0-8.0')	B815 (7.0-8.0')	B816 (9.0-10.0')	B817 (8.0-9.0')	B818 (7.0-9.0')	B819 (8.5-9.5')
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	4/1/2008	4/7/2008	4/1/2008	4/7/2008	4/1/2008	4/7/2008
										Sample Depth (feet):	7.0-8.0'	7.0-8.0'	9.0-10.0'	8.0-9.0'	7.0-9.0'	8.5-9.5'
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		0.0012	0.0028	0.0015	0.001	<0.0401	<0.0010
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		<0.0061	0.0023	<0.0061	<0.0046	7.54	<0.0048
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		0.0018	0.0064	<0.0061	0.0014	<0.201	<0.0048
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		0.0013	0.0049	<0.0061	<0.0046	3.95	<0.0048
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		<0.004	<0.004	0.013	<0.004	0.943	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		<0.004	<0.004	0.009	0.009	0.613	<0.004
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		<0.004	<0.004	<0.004	<0.004	1.14	<0.004
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		<0.004	<0.004	<0.004	0.016	0.858	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		<0.004	<0.004	<0.004	0.018	0.921	<0.004
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		<0.004	<0.004	<0.004	0.015	0.713	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		<0.004	<0.004	<0.004	0.010	0.338	<0.004
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		<0.004	<0.004	<0.004	0.005	0.227	<0.004
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		<0.004	<0.004	<0.004	0.015	0.820	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		<0.004	<0.004	<0.004	<0.004	0.099	<0.004
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		<0.004	<0.004	<0.004	0.026	1.82	<0.004
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		<0.004	<0.004	<0.004	<0.004	0.815	<0.004
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		<0.004	<0.004	<0.004	0.008	0.293	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		<0.004	<0.004	<0.004	<0.004	0.082	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		<0.004	<0.004	<0.004	0.009	3.77	<0.004
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		<0.004	<0.004	0.005	0.056	2.64	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil							Soil Component to Groundwater (Class I)		PAH Background Metropolitan Areas	UNITS	Sample Location:	B-820	B-821	B-822	B-822	B-823	B-823
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B820 (8.5-9.5')	B821 (9.0-10.0')	B822 (7.0-8.0')	B822 (6.0-8.0')	B823 (3.0-4.0')	B823 (9.0-10.0')	
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	8.5-9.5	9.0-10.0	7.0-8.0'	6.0-8.0'	3.0-4.0'	9.0-10.0'	
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)	4/4/2008	<0.0010	0.0052	<0.0064	<0.0159	<0.0014	0.0029	
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	4/4/2008	<0.0051	0.0033	<0.0321	<0.0795	<0.0068	0.0108	
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	4/4/2008	<0.0051	0.0089	<0.0321	<0.0795	0.0014	0.0058	
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	4/4/2008	<0.0051	0.0073	<0.0321	0.025	0.0026	0.0326	
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)	4/4/2008	<0.004	<0.004	<0.005	<0.004	<0.005	<0.022	
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)	4/4/2008	<0.004	<0.004	0.213	0.037	0.045	0.372	
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)	4/4/2008	<0.004	<0.004	0.010	0.007	0.010	0.060	
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)	4/4/2008	<0.004	0.004	0.018	0.012	0.057	0.484	
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)	4/4/2008	<0.004	<0.004	0.029	0.014	0.067	0.732	
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)	4/4/2008	<0.004	<0.004	0.053	0.015	0.065	0.350	
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)	4/4/2008	<0.004	<0.004	0.054	0.016	0.059	0.337	
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)	4/4/2008	<0.004	<0.004	0.018	0.006	0.060	0.368	
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)	4/4/2008	<0.004	<0.004	0.017	0.008	0.058	0.494	
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)	4/4/2008	<0.004	<0.004	0.015	<0.004	0.018	0.085	
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)	4/4/2008	<0.004	0.004	0.019	0.010	0.063	0.467	
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)	4/4/2008	<0.004	<0.004	0.007	0.004	<0.005	0.022	
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)	4/4/2008	<0.004	<0.004	0.045	0.013	0.057	0.259	
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	4/4/2008	<0.004	0.006	0.012	0.010	0.008	<0.022	
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)	4/4/2008	<0.004	0.004	0.008	0.013	0.032	<0.022	
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)	4/4/2008	<0.004	0.008	0.030	0.029	0.072	1.08	

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-824	B-825	B-826	B-827	B-828	B-829
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B824 (9.0-10.0')	B825 (8.0-9.0')	B826 (8.0-9.0')	B827 (7.0-8.0')	B828 (9.0-10.0)	B829 (6.0-7.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	4/4/2008	4/3/2008	4/3/2008	4/2/2008	4/3/2008	4/2/2008
										Sample Depth (feet):	9.0-10.0'	8.0-9.0	8.0-9.0	7.0-8.0'	9.0-10.0	6.0-7.0'
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		<0.0235	0.0023	0.002	<0.0227	0.0314	0.253
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		0.034	0.0021	0.0017	<0.113	0.0534	0.066
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		<0.118	0.0062	0.0042	<0.113	0.0109	<0.132
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		<0.118	0.0048	0.0042	<0.113	0.0322	0.061
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		0.148	<0.004	<0.004	0.031	0.004	2.0
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		0.515	<0.004	<0.004	0.072	<0.004	0.240
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		0.639	<0.004	<0.004	0.016	<0.004	0.975
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		0.585	<0.004	0.004	0.019	<0.004	0.673
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		0.673	<0.004	<0.004	0.059	<0.004	0.545
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		0.301	<0.004	<0.004	0.082	<0.004	0.513
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		0.308	<0.004	<0.004	0.053	<0.004	0.227
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		0.375	<0.004	<0.004	0.019	<0.004	0.179
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		0.550	<0.004	<0.004	0.018	<0.004	0.625
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		0.076	<0.004	<0.004	0.015	<0.004	0.071
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		1.01	0.004	0.005	0.019	<0.004	1.68
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		0.666	<0.004	<0.004	0.043	<0.004	1.38
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		0.240	<0.004	<0.004	0.047	<0.004	0.194
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		<0.02	0.008	<0.004	<0.008	0.023	0.063
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		2.38	0.007	0.006	0.008	<0.004	4.10
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		1.51	<0.004	0.004	0.099	<0.004	2.03

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:						
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B-830	B-831	B-832	B-833	B-834	B-837
	Residential	Commercial	Construction	Residential	Commercial	Construction					B830 (8.0-9.0')	B831 (9.0-10.0')	B832 (7.0-8.0')	B833 (9.0-10.0')	B834 (6.0-7.0')	B837 (9.0-10.0')
									Sample Date:	4/3/2008	4/3/2008	4/4/2008	4/2/2008	4/4/2008	4/14/2008	
									Sample Depth (feet):	8.0-9.0	9.0-10.0	7.0-8.0	9.0-10.0'	6.0-7.0	9.0-10.0	
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)	0.0015	8.45	<0.0011	13.20	<0.0256	0.0034	
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0058	32.6	<0.0056	5.50	<0.128	<0.0039	
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0021	18.8	<0.0056	34.90	<0.128	0.0014	
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0014	105.0	<0.0056	54.0	<0.128	0.0011	
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)	<0.004	53.4	<0.004	3.09	0.478	<0.004	
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)	<0.004	11.0	<0.004	11.70	0.052	<0.004	
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)	<0.004	33.2	<0.004	11.0	0.287	<0.004	
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)	<0.004	22.3	<0.004	6.26	0.133	<0.004	
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)	<0.004	17.1	<0.004	4.38	0.075	<0.004	
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)	<0.004	18.0	<0.004	4.86	0.073	<0.004	
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)	<0.004	6.17	<0.004	1.30	0.033	<0.004	
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)	<0.004	6.95	<0.004	1.93	0.026	<0.004	
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)	<0.004	20.5	<0.004	5.35	0.134	<0.004	
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)	<0.004	2.28	<0.004	0.517	0.010	<0.004	
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)	<0.004	54.4	<0.004	17.0	0.388	<0.004	
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)	<0.004	45.3	<0.004	14.2	0.354	<0.004	
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)	<0.004	6.30	<0.004	1.43	0.028	<0.004	
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	274.0	<0.004	52.2	0.005	<0.004	
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)	<0.004	103.0	<0.004	36.5	0.365	<0.004	
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)	<0.004	48.9	<0.004	14.3	0.498	<0.004	

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:						
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B-838	B-839	B-840	B-843	B-844	B-845
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	B838 (9.0-10.0')	B839 (6.0-7.0')	B840 (7.0-8.0')	B843 (7.0-8.0')	B844 (8.0-9.0')	B845 (6.0-7.0')
									Sample Depth (feet):	9.0-10.0	6.0-7.0	7.0-8.0	7.0-8.0	8.0-9.0	6.0-7.0	
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)	0.0027	<0.0009	<0.001	0.0031	0.0031	0.0025	
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0018	<0.0043	<0.0049	0.0028	0.0079	0.0022	
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0064	<0.0043	<0.0049	0.0061	0.0055	0.0072	
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0035	<0.0043	<0.0049	0.0044	0.0111	0.0048	
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.014	<0.004	
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.02	<0.004	
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.028	<0.004	
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.024	<0.004	
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.014	<0.004	
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.007	<0.004	
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.018	<0.004	
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.004	<0.004	
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.016	<0.004	
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.011	<0.004	
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.039	<0.004	

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-846	B-847	B-848	B-849	B-850	B-852
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B846 (8.5-9.5')	B847 (6.0-7.0')	B848 (9.0-10.0')	B849 (9.0-10.0')	B850 (8.0-9.0')	B852 (9.0-10.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/8/2008	5/9/2008
										Sample Depth (feet):	8.5-9.5	6.0-7.0	9.0-10.0	9.0-10.0	8.0-9.0	9.0-10.0
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		0.438	0.0027	0.0058	0.0026	0.0209	0.0025
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		10.1	0.003	0.0039	0.0021	0.0303	0.0016
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		<0.648	0.0068	0.0117	0.0057	0.006	0.005
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		8.82	0.0057	0.0072	0.0046	0.0584	0.004
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		1.87	<0.004	<0.004	<0.004	0.165	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		0.312	<0.004	<0.004	<0.004	0.026	<0.004
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		0.928	<0.004	<0.004	<0.004	0.010	<0.004
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		0.523	0.004	<0.004	<0.004	<0.004	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		0.469	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		0.356	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		0.173	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		0.109	<0.004	<0.004	<0.004	<0.004	<0.004
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		0.518	<0.004	<0.004	<0.004	<0.004	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		0.049	<0.004	<0.004	<0.004	<0.004	<0.004
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		1.08	0.005	<0.004	<0.004	<0.004	<0.004
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		0.941	<0.004	<0.004	<0.004	0.033	<0.004
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		0.142	<0.004	<0.004	<0.004	<0.004	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		5.44	<0.004	<0.004	<0.004	0.129	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		2.78	0.011	<0.004	<0.004	0.054	<0.004
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		1.61	0.006	<0.004	<0.004	<0.004	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.  
 --- No ROs have been established.  
 --- Constituent exceeds one or more Tier 1 RO.  
 <0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective  
 mg/kg Milligrams per kilogram  
 <0.004 Not detected at the detection limit identified.



**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-853	B-854	B-855	B-501	B-502	B-503
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater	PAH Background	UNITS	Sample ID:	B852 (4.0-5.0 ft)	B852 (7.0-8.0 ft)	B852 (6.0-7.0 ft)	B-501-8	B-502-7	B-503-10
	Residential	Commercial	Construction	Residential	Commercial	Construction	(Class I)	Metropolitan Areas		Sample Date:	6/23/2008	6/24/2008	6/26/2008	7/13/2004	7/13/2004	7/13/2004
										Sample Depth (feet):	4.0-5.0	7.0-8.0	6.0-7.0	7'-8'	6'-7'	9'-10'
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		<0.0009	0.0082	0.0035	0.183	10.90	0.534
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		<0.0045	0.0019	0.0036	0.041	5.66	0.523
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		0.0011	0.0072	0.0091	<0.0246	0.22	0.30
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		0.0016	0.0046	0.0073	0.041	11.0	0.837
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		<0.004	<0.004	<0.004	0.050	16.0	1.60
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		<0.004	<0.004	<0.004	0.240	2.70	0.32
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		<0.004	<0.004	<0.004	0.180	12.0	1.40
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		0.005	<0.004	<0.004	0.180	8.70	0.63
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		<0.004	<0.004	<0.004	0.270	4.10	0.52
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		0.004	<0.004	<0.004	0.250	18.0	0.63
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		<0.004	<0.004	<0.004	0.063	4.0	0.11
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		<0.004	<0.004	<0.004	0.097	5.60	0.24
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		<0.004	<0.004	<0.004	0.170	19.0	0.65
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		<0.004	<0.004	<0.004	<0.030	1.90	0.045
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		0.005	<0.004	<0.004	0.340	17.0	1.80
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		<0.004	<0.004	<0.004	0.330	20.0	1.20
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		<0.004	<0.004	<0.004	0.064	4.70	0.13
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		<0.004	<0.004	<0.004	<0.030	59.0	16.0
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		<0.004	<0.004	<0.004	0.038	50.0	3.50
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		0.005	<0.004	<0.004	0.50	25.0	1.50

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-504	B-505	B-506	B-507	B-508	B-509
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B-504-7	B-505-6	B-506-7	B-507-8	B-508-9	B-509-8
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	7/13/2004	7/14/2004	7/22/2004	7/21/2004	7/19/2004	7/21/2004
										Sample Depth (feet):	6'-7'	5'-6'	6'-7'	7'-8'	8'-9'	7'-8'
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		20.8	14.50	11.20	3.51	2.08	0.0046
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		145	79.80	46.20	22.20	33.10	0.0038
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		10.9	3.80	0.74	0.28	0.575	0.0014
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		140	69.90	33.70	16.60	24.30	0.012
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		590.0	540.0	170.0	53.0	51.0	9.80
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		71.0	81.0	12.0	3.60	5.80	4.70
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		300.0	280.0	71.0	24.0	22.0	7.20
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		170.0	140.0	33.0	9.50	12.0	9.40
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		130.0	140.0	35.0	12.0	10.0	8.70
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		110.0	130.0	29.0	7.90	7.90	6.80
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		<50.0	31.0	7.20	2.40	4.50	2.80
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		<43.0	45.0	7.40	2.30	3.10	2.50
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		150.0	140.0	33.0	8.80	11.0	9.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		<44.0	10.0	2.30	0.72	<3.0	<0.620
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		320.0	290.0	78.0	26.0	23.0	18.0
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		410.0	400.0	90.0	35.0	30.0	13.0
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		<47.00	35.0	6.0	2.30	3.50	2.40
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		2000.0	2300.0	790.0	170.0	140.0	<0.880
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		1100.0	920.0	250.0	77.0	64.0	37.0
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		440.0	400.0	110.0	37.0	33.0	25.0

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-510	B-512	B-513	B-514	B-515	B-516
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B-510-5	B-512-8	B-513-8	B-514-8	B-515-7	B-516-5
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	7/12/2004	7/12/2004	7/12/2004	7/22/2004	7/16/2004	7/22/2004
										Sample Depth (feet):	4'-5'	7'-8'	7'-8'	7'-8'	6'-7'	4'-5'
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		0.0043	<0.0244	<0.0101	3.10	9.03	0.656
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		<0.0010	<0.122	0.036	23.50	59.10	4.720
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		0.0017	<0.122	<0.0202	0.446	2.45	0.289
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		0.0013	<0.122	0.044	19.80	40.70	1.480
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		<0.031	0.30	1.60	48.0	270.0	7.50
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		0.150	<0.442	2.0	8.80	34.0	5.0
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		0.067	0.15	2.80	19.0	100.0	3.80
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		0.50	<0.442	1.20	11.0	65.0	7.20
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		0.510	<0.442	0.95	13.0	88.0	16.0
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		0.710	<0.442	0.82	8.90	66.0	13.0
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		0.280	<0.442	0.42	2.80	26.0	5.0
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		0.220	<0.442	0.28	2.60	25.0	4.20
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		0.590	<0.442	1.10	11.0	74.0	8.40
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		0.074	<0.442	0.11	0.85	11.0	1.30
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		0.650	<0.442	2.10	24.0	150.0	7.60
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		0.048	0.31	4.20	36.0	150.0	5.50
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		0.230	<0.442	0.43	2.70	27.0	4.50
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		0.033	<0.442	<0.066	100.0	510.0	24.0
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		0.210	0.644	9.30	72.0	340.0	12.0
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		1.0	0.15	3.20	33.0	190.0	14.0

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-550	B-551	B-553	B-554	B-556	B-557
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B-550-9	B-551-10	B-553-6	B-554-10	B-556-6	B-557-10
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	7/20/2004	7/15/2004	7/14/2004	7/15/2004	7/20/2004	7/20/2004
										Sample Depth (feet):	8'-9'	9'-10'	5'-6'	9'-10'	5'-6'	9'-10'
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		0.610	1.260	4.05	0.765	2.77	0.0071
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		1.260	13.600	20.80	3.91	19.90	0.0074
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		0.055	0.069	0.811	2.70	<0.206	0.002
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		0.623	5.720	19.30	6.12	12.20	0.0134
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		5.30	23.0	280.0	77.0	64.0	0.32
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		0.79	3.0	27.0	7.30	4.20	0.13
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		2.60	13.0	170.0	29.0	28.0	0.18
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		1.60	9.60	120.0	13.0	12.0	0.14
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		1.80	12.0	120.0	14.0	12.0	0.16
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		1.40	11.0	130.0	13.0	8.70	0.13
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		0.41	3.50	29.0	2.20	5.0	0.054
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		0.41	4.20	50.0	4.70	2.40	0.039
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		1.60	10.0	120.0	14.0	13.0	0.14
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		0.16	1.0	9.70	0.79	1.30	0.02
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		2.60	20.0	300.0	32.0	27.0	0.33
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		4.40	15.0	180.0	42.0	26.0	0.20
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		0.37	3.70	34.0	1.90	4.30	0.048
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		2.70	46.0	880.0	1.80	200.0	0.014
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		9.60	41.0	540.0	91.0	90.0	1.10
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		3.80	21.0	340.0	42.0	40.0	0.50

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-3  
BTEX and PAHs - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-558	B-559	B-560	B-561	B-562
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	Sample ID:	B-558-7	B-559-8	B-560-5	B-561-10	B-562-10
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	7/19/2004	7/19/2004	7/16/2004	7/15/2004	7/15/2004
										Sample Depth (feet):	6'-7'	7'-8'	4'-5'	9'-10'	9'-10'
Benzene	12.0	100	2,300	0.8	1.60	2.20	0.03	---	(mg/kg)		0.0525	<0.0128	0.012	1.25	0.286
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)		0.066	<0.0256	0.0019	1.38	1.59
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)		0.134	<0.0256	0.0039	0.11	0.726
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)		0.221	0.046	0.0039	3.54	1.66
Acenaphthene	4700	120000	120000	---	---	---	570	0.13	(mg/kg)		8.10	<0.150	0.38	9.10	28.0
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	85	0.07	(mg/kg)		2.40	<0.160	6.10	1.60	3.50
Anthracene	23000	610000	610000	---	---	---	12000	0.40	(mg/kg)		6.80	<0.140	1.20	4.80	14.0
Benzo(a)anthracene	0.9	8.0	170	---	---	---	2.0	1.80	(mg/kg)		3.20	<0.120	7.20	2.50	6.10
Benzo(a)pyrene	0.09	0.80	17.0	---	---	---	8.0	2.10	(mg/kg)		3.50	<0.110	25.0	2.0	6.10
Benzo(b)fluoranthene	0.9	8.0	170	---	---	---	5.0	2.10	(mg/kg)		2.80	<0.110	20.0	1.40	4.50
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	27000	1.70	(mg/kg)		0.93	<0.140	6.70	0.84	1.60
Benzo(k)fluoranthene	9.0	78	1700	---	---	---	49.0	1.70	(mg/kg)		0.82	<0.120	7.50	0.59	1.50
Chrysene	88.0	780	17000	---	---	---	160	2.70	(mg/kg)		3.10	<0.130	9.0	2.4	6.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	---	---	---	2.0	0.42	(mg/kg)		0.36	<0.120	1.70	<0.570	<0.630
Fluoranthene	3100	82000	82000	---	---	---	4300	4.10	(mg/kg)		7.30	<0.120	7.50	5.0	14.0
Fluorene	3100	82000	82000	---	---	---	560	0.18	(mg/kg)		8.90	<0.140	0.55	6.30	18.0
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	---	---	---	14.0	1.60	(mg/kg)		0.86	<0.130	6.0	<0.620	1.50
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)		<0.130	<0.180	2.60	23.0	39.0
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	---	---	---	200	2.50	(mg/kg)		22.0	<0.120	3.20	14.0	45.0
Pyrene	2300	61000	61000	---	---	---	4200	3.0	(mg/kg)		12.0	<0.120	23.0	7.40	20.0

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.001 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-4  
Metals and Cyanide - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										Sample Location:	B-802	B-803	B-804	B-805	B-807	B-809	B-811	B-814	B-815
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample ID:	B802 (8.5-10.0)	B803 (9.0-10.0)	B804 (8.5-9.5)	B805 (7.0-8.0)	B807 (8.5-9.5)	B809 (9.0-10.0)	B811(9.0-10.0)	B814(7.0-8.0)	B815(7.0-8.0)	
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	4/15/2008	5/7/2008	4/8/2008	4/9/2008	4/8/2008	5/8/2008	5/5/2008	4/1/2008	4/7/2008
								Sample Depth (feet):	8.5-10.0	9.0-10.0	8.5-9.5	7.0-8.0	8.5-9.5	9.0-10.0	9.0-10.0	7.0-8.0	7.0-8.0		
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg	4.34	2.0	5.27	7.08	5.83	3.08	6.47	10.1	8.19		
Chromium	230	6,100	4100	270	420	690	28	mg/kg	25	27.0	19.1	13.6	18.2	16.1	15.10	14.2	16.8		
Lead	400	800	700	---	---	---	107	mg/kg	15.4	14.2	14.7	14.5	14.2	12.4	10.0	10.1	10.8		
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg	<0.57	<0.61	<0.64	<0.56	<0.57	<0.59	<0.60	<0.61	<0.56		
Cyanide (total)	---	---	---	---	---	---	---	mg/kg	0.97	<0.61	<0.63	<0.56	<0.57	<0.59	0.25	11.1	<0.56		

--- No ROs have been established.

█ Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-4  
Metals and Cyanide - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

<b>Tier 1 Remediation Objectives - Soil</b>										Sample Location:									
<b>CONSTITUENT</b>	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample Depth (feet):	B-817	B-818	B-819	B-822	B-823	B-824	B-829	B-831	B-832	
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample ID:	B816(8.0-9.0)	B818(7.0-9.0)	B819(8.5-9.5)	B822(6.0-8.0)	B822(13.0-15.0)	B824(9.0-10.0)	B829(6.0-7.0)	B831(9.0-10.0)	B832(7.0-8.0)
										Sample Date:	4/7/2008	4/1/2008	4/7/2008	4/1/2008	4/1/2008	4/4/2008	4/2/2008	4/3/2008	4/4/2008
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg	8.0-9.0	9.03	5.49	3.95	9.97	9.99	7.98	8.84	8.22	5.99	
Chromium	230	6,100	4100	270	420	690	28	mg/kg		18.4	24.1	20.9	26.4	18.5	16.0	22.9	10.6	25.3	
Lead	400	800	700	---	---	---	107	mg/kg		19.4	20.2	16.6	15.9	12.8	11.4	14.9	11.0	17.8	
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg		0.31	<0.62	0.39	<6.23	<0.52	<0.57	<0.6	0.65	<0.64	
Cyanide (total)	---	---	---	---	---	---	---	mg/kg		0.32	2.12	0.39	33.10	0.25	<0.56	1.02	<0.57	<0.64	

--- No ROs have been established.  
  Constituent exceeds one or more Tier 1 RO.  
 mg/kg Milligrams per kilogram  
 <0.004 Not detected at the detection limit identified.



**Table 5-4  
Metals and Cyanide - 3 to 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil									Sample Location:	B-833	B-837	B-839	B-843	B-844	B-845	B-849	B-850
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample ID:	B833(9.0-10.0)	B837(9.0-10.0)	B839(6.0-7.0)	B843(7.0-8.0)	B844(8.0-9.0)	B845(6.0-7.0)	B849(9.0-10.0)	B850(8.0-9.0)
	Residential	Commercial	Construction	Residential	Commercial	Construction			Sample Date:	4/2/2008	4/14/2008	4/14/2008	5/6/2008	5/6/2008	5/6/2008	5/7/2008	5/8/2008
								Sample Depth (feet):	9.0-10.0	9.0-10.0	6.0-7.0	7.0-8.0	8.0-9.0	6.0-7.0	9.0-10.0	8.0-9.0	
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg	2.92	6.37	4.45	6.42	6.35	6.44	5.59	1.9	
Chromium	230	6,100	4100	270	420	690	28	mg/kg	24.2	24.4	29.7	14.0	14.0	13.6	13.3	19.4	
Lead	400	800	700	---	---	---	107	mg/kg	19.7	17.9	16.9	9.48	9.77	9.36	12.4	14.4	
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg	<0.63	<0.61	<0.59	<0.55	<0.56	<0.60	<0.56	<0.59	
Cyanide (total)	---	---	---	---	---	---	---	mg/kg	1.31	<0.61	<0.59	<0.55	<0.56	0.2	<0.56	0.23	

--- No ROs have been established.

█ Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-800	B-801	B-802	B-802	B-803	B-803	B-804
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B800 (11.5-12.5') 4/14/2008	B801 (25.0-26.0') 4/8/2008	B802 (14.5-15.5') 4/15/2008	B802 (25.0-26.0') 4/15/2008	B803 (21.0-22.0') 5/7/2008	B803 (29.0-30.0') 5/7/2008	B804 (15.0-16.0') 4/8/2008
	Residential	Commercial	Construction	Residential	Commercial	Construction				11.5-12.5	25.0-26.0'	14.5-15.5	25.0-26.0	21.0-22.0	29.0-30.0	15.0-16.0'
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0031	<0.0008	79.9	0.0438	0.158	0.0014	<0.0007
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0017	<0.0039	31.0	<0.0043	4.56	<0.0038	<0.0036
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0058	0.0008	57.6	0.0013	0.32	0.002	<0.0036
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0045	<0.0039	112.0	0.0009	3.5	0.0013	<0.0036
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.035	<0.004	4.66	<0.004	2.96	<0.004	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	0.085	<0.004	18.3	<0.004	3.19	<0.004	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.006	<0.004	12.3	<0.004	2.54	<0.004	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.034	<0.004	7.69	<0.004	1.33	0.004	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.065	<0.004	7.28	<0.004	1.24	<0.004	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.078	<0.004	6.01	<0.004	0.915	<0.004	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.051	<0.004	2.73	0.005	0.425	<0.004	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.027	<0.004	2.08	<0.004	0.275	<0.004	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.037	<0.004	7.36	<0.004	1.3	<0.004	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.015	<0.004	0.982	<0.004	0.119	<0.004	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.040	<0.004	17.4	0.004	2.74	0.004	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.005	<0.004	13.8	<0.004	2.61	<0.004	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.044	<0.004	2.35	<0.004	0.345	<0.004	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.009	<0.004	78.3	0.017	13.0	0.010	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.019	0.004	43.2	0.010	8.16	0.008	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.056	<0.004	21.5	0.007	4.13	0.005	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil						Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-805	B-806	B-807	B-809	B-811	B-812	B-813
	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>						B805 (13.0-14.0')	B806 (11.0-12.0')	B807 (13.0-14.0')	B809 (15.0-16.0')	B811 (11.0-12.0')	B812 (11.0-12.0')	B813 (11.0-12.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				4/9/2008 13.0-14.0'	4/8/2008 11.0-12.0'	4/8/2008 13.0-14.0'	5/8/2008 15.0-16.0	5/5/2008 11.0-12.0	5/5/2008 11.0-12.0	4/7/2008 11.0-12.0
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0025	0.0023	0.003	0.0018	0.0025	0.0023	0.0029
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0017	0.0018	0.0021	<0.0045	0.0014	0.0016	0.0019
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.006	0.0053	0.0071	0.0029	0.0045	0.0046	0.0053
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0039	0.0046	0.0041	<0.0045	0.0032	0.0036	0.0053
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-814	B-815	B-816	B-817	B-818	B-818	B-819
CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B814 (17.0-18.0') 4/1/2008	B815 (25.0-26.0') 4/7/2008	B816 (19.0-21.0') 4/1/2008	B817 (26.0-27.0') 4/7/2008	B818 (13.0-15.0') 4/1/2008	B818 (24.0-26.0') 4/1/2008	B819 (28.0-29.0') 4/7/2008
	Residential	Commercial	Construction	Residential	Commercial	Construction				17.0-18.0	25.0-26.0	19.0-21.0	26.0-27.0	13.0-15.0	24.0-26.0	28.0-29.0
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.002	0.002	0.0009	0.0555	0.0436	7.05	0.0011
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0062	<0.0043	<0.0042	0.894	0.205	0.058	<0.0043
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0025	0.0022	0.0011	0.194	0.042	0.584	0.0011
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0017	0.0043	<0.0042	1.16	0.972	0.140	<0.0043
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.75	0.038	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.06	0.025	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.48	0.037	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.06	0.030	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.42	0.031	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.1	0.024	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.004	<0.004	<0.004	<0.004	0.739	0.017	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.35	0.008	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.12	0.030	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.179	0.004	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	2.27	0.063	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.36	0.033	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.564	0.012	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	<0.004	<0.004	0.021	8.10	0.217	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	<0.004	0.005	<0.004	0.008	5.23	0.144	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.004	<0.004	<0.004	<0.004	3.34	0.094	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-820	B-821	B-822	B-822	B-823	B-824	B-825
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B820 (25.0-26.0') 4/4/2008	B821 (19.0-20.0') 4/4/2008	B822 (13.0-15.0') 4/1/2008	B822 (27.0-28.0') 4/1/2008	B823 (13.0-15.0') 4/1/2008	B824 (23.0-24.0') 4/4/2008	B825 (18.0-19.0') 4/3/2008
	Residential	Commercial	Construction	Residential	Commercial	Construction				25.0-26.0	19.0-20.0'	13.0-15.0	27.0-28.0	13.0-15.0	23.0-24.0'	18.0-19.0
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0017	0.0017	0.0038	0.0025	0.0024	0.0013	0.0016
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0046	<0.0045	0.0026	0.0032	0.0058	<0.0041	<0.0046
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0017	0.002	0.0032	0.0025	0.0049	0.0017	0.0024
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	<0.0046	0.0016	0.0049	0.002	0.0087	0.0013	<0.0046
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.160	0.015	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.471	0.041	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.602	0.090	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.559	0.081	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.570	0.061	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.279	0.048	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.247	0.025	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.297	0.053	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.524	0.069	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.064	0.011	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.983	0.192	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.516	0.077	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.193	0.026	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	0.004	0.007	<0.004	<0.020	0.187	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.007	<0.004	<0.004	<0.004	2.48	0.288	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.49	0.142	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil						Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-826	B-827	B-827	B-827	B-828	B-828
	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>						B826 (16.0-17.0')	B827 (12.0-13.0')	B827 (12.0-13.0') DUP	B827 (26.0-28.0')	B828 (12.0-13.0')	B828 (17.0-18.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				4/3/2008	4/2/2008	4/2/2008	4/2/2008	4/3/2008	4/3/2008
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0018	0.0048	0.0042	0.0065	0.0608	0.0015
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0015	0.0073	0.0065	0.0209	0.182	<0.0043
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.004	0.0084	0.0097	0.0082	<0.109	0.0015
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0035	0.0141	0.0144	0.0212	0.284	0.0043
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	0.184	0.775	0.547	0.043	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.004	0.354	2.54	2.21	0.006	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	0.056	0.681	0.303	<0.004	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.005	0.131	1.81	0.971	<0.004	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	0.074	1.51	0.776	<0.004	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.004	0.076	1.55	0.509	<0.004	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.004	0.038	0.598	0.358	<0.004	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	0.028	0.54	0.519	<0.004	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	0.131	1.74	0.896	<0.004	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	0.010	0.187	0.108	<0.005	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.007	0.402	3.41	1.69	<0.006	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	0.366	2.55	1.21	0.021	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	0.031	0.553	0.317	<0.004	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.006	0.009	0.051	<0.041	0.766	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.012	0.023	1.77	1.18	<0.004	0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.007	0.553	4.90	2.39	<0.004	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-829	B-830	B-831	B-831	B-832	B-833	B-833
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B829 (21.0-22.0')	B830(28.0-30.0')	B831(10.5-12.0')	B831(18.0-20.0')	B832(20.0-21.0')	B833(10.0-12.0')	B833(10.0-12.0') DUP
	Residential	Commercial	Construction	Residential	Commercial	Construction				4/2/2008	4/3/2008	4/3/2008	4/3/2008	4/4/2008	4/2/2008	4/2/2008
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	14.0	<0.0008	6.87	0.0021	0.0016	15.3	50.7
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0056	<0.0041	17.6	0.0013	<0.0044	6.810	24.0
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0023	0.009	10.6	0.0025	0.0018	42.90	163.0
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0021	<0.0041	54.2	0.0041	0.0011	68.20	255.0
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	29.7	0.006	<0.004	10.1	12.9
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.004	<0.004	10.0	<0.004	<0.004	41.50	57.6
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	<0.004	20.0	0.006	<0.004	35.0	40.3
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	<0.004	12.3	0.007	<0.004	20.5	26.5
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	<0.004	9.94	0.004	<0.004	14.9	19.6
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	<0.004	10.2	0.004	<0.004	15.5	21.4
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.004	<0.004	3.61	<0.004	<0.004	4.68	5.74
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	4.14	<0.004	<0.004	6.04	8.68
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	<0.004	11.1	0.005	<0.004	19.30	24.6
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	1.58	<0.004	<0.004	2.20	2.69
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	<0.004	33.5	0.012	<0.004	52.7	66.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	27.7	0.006	<0.004	44.9	58.9
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	3.64	<0.004	<0.004	5.10	6.72
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	<0.004	166.0	0.064	<0.004	201.0	325.0
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	<0.004	<0.004	62.7	0.022	0.004	106.0	117.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.004	<0.004	29.2	0.012	<0.004	45.0	50.6

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.



**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-833	B-833	B-834	B-834	B-834	B-835	B-837
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B833(25.0-26.0') 4/2/2008 25.0-26.0	B833(31.0-32.0') 4/2/2008 31.0-32.0	B834 (11.5-12.5') 4/4/2008 11.5-12.5	B834 (15.0-16.0') 4/4/2008 15.0-16.0	B834 (21.0-22.0') 4/4/2008 21.0-22.0	B835 (28.0-29.0') 4/3/2008 29.0-29.0	B837 (12.0-13.0') 4/14/2008 12.0-13.0
	Residential	Commercial	Construction	Residential	Commercial	Construction										
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	3.19	0.006	0.002	2.03	<0.0266	29.6	0.0033
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	7.16	0.0013	0.0025	1.07	<0.133	15.20	0.0018
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	29.4	0.0056	0.0051	4.46	<0.133	59.10	0.006
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	75.1	0.0037	0.0074	7.59	<0.133	78.10	0.0036
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.091	0.021	7.62	0.255	<0.004	2.47	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	0.669	0.023	4.79	1.64	<0.004	13.0	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.078	0.043	7.86	0.677	0.003	8.24	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.013	0.035	6.12	0.480	0.005	6.06	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.009	0.027	6.04	0.486	0.003	4.99	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.01	0.029	4.77	0.381	<0.004	3.41	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.006	0.014	2.67	0.223	<0.004	1.94	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.004	0.011	1.60	0.132	<0.004	3.92	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.012	0.034	5.63	0.435	0.004	5.22	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	0.004	0.709	0.057	<0.004	0.702	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.038	0.087	12.0	0.943	0.007	15.3	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.299	0.036	7.07	1.03	<0.004	9.55	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.004	0.011	2.05	0.166	<0.004	2.09	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	4.64	0.072	10.6	9.56	0.018	56.0	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.249	0.143	28.6	2.90	0.014	25.2	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.031	0.083	15.4	1.32	0.01	12.2	<0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-838	B-838	B-839	B-840	B-843	B-844	B-845
CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B838 (15.0-16.0') 4/4/2008	B838 (29.0-30.0') 4/4/2008	B839 (16.0-17.0') 4/14/2008	B840 (18.0-19.0') 4/15/2008	B843 (10.0-11.0') 5/6/2008	B844 (15.0-16.0') 5/6/2008	B845 (13.0-14.0') 5/6/2008
	Residential	Commercial	Construction	Residential	Commercial	Construction				15.0-16.0	29.0-30.0	16.0-17.0	18.0-19.0	10.0-11.0	15.0-16.0	13.0-14.0
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	1.96	0.0015	0.0009	0.0016	0.0026	0.64	0.0023
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	2.83	0.0009	<0.0038	<0.0045	0.0018	3.07	0.0014
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	4.33	0.0021	0.0009	0.0014	0.0059	0.25	0.0047
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	10.80	0.0029	<0.0038	<0.0045	0.0044	4.2	0.0035
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	36.8	0.052	<0.004	0.013	0.004	2.49	<0.004
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	12.7	0.021	<0.004	0.03	<0.004	0.684	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	27.6	0.045	<0.004	0.029	0.004	1.81	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	17.1	0.034	<0.004	0.031	0.011	0.893	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	14.1	0.027	<0.004	0.03	0.008	0.847	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	14.0	0.028	<0.004	0.032	0.011	0.662	<0.004
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	5.31	0.012	0.005	0.017	0.005	0.325	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	5.34	0.01	<0.004	0.011	0.004	0.195	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	15.3	0.03	<0.004	0.033	0.008	0.913	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	1.79	0.004	<0.004	0.006	<0.004	0.089	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	41.2	0.078	<0.004	0.06	0.021	1.88	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	31.3	0.049	<0.004	0.028	<0.004	1.70	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	5.10	0.011	<0.004	0.012	0.004	0.266	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	316.0	0.388	0.008	0.112	0.004	12.70	<0.004
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	79.9	0.149	<0.004	0.117	0.02	6.07	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	38.8	0.073	0.004	0.068	0.016	2.71	0.004

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

mg/kg Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-846	B-846	B-847	B-847	B-848	B-849	B-850
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B846 (10.0-11.0')	B846 (20.0-21.0')	B847 (22.0-23.0')	B847 (29.0-30.0')	B848 (13.0-14.0')	B849(16.0-17.0')	B850 (16.0-17.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.205	3.16	1.44	0.0012	0.003	1.2	10.7
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	3.42	<0.0983	62.8	<0.0038	0.0019	6.24	227.0
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.084	<0.0983	12.4	0.0018	0.006	0.89	21.5
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	2.9	<0.0983	75.6	<0.0038	0.0038	5.64	258.0
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	4.19	0.004	0.95	<0.004	<0.004	0.665	65.1
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	0.808	<0.004	4.73	<0.004	<0.004	1.55	229.0
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	2.10	<0.004	2.36	<0.004	<0.004	1.12	121.0
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	1.30	<0.004	1.29	<0.004	<0.004	0.67	70.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	1.28	<0.004	1.15	<0.004	<0.004	0.661	69.3
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.979	<0.004	0.905	<0.004	<0.004	0.52	54.5
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.471	<0.004	0.356	<0.004	<0.004	0.227	21.8
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.29	<0.004	0.258	<0.004	<0.004	0.161	17.7
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	1.32	<0.004	1.27	<0.004	<0.004	0.661	69.8
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.133	<0.004	<0.190	<0.004	<0.004	0.065	6.50
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	2.47	<0.004	2.53	<0.004	<0.004	1.21	154.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	1.91	<0.004	2.5	<0.004	<0.004	1.07	132.0
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.381	<0.004	0.3	<0.004	<0.004	0.187	19.1
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	12.4	0.013	13.8	0.012	<0.004	5.37	920.0
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	6.29	0.009	8.04	0.006	<0.004	3.54	449.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	3.94	0.005	3.79	<0.004	<0.004	1.84	212.0

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil						Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-850	B-851	B-852	B-853	B-854	B-855	B-501
	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>						B850 (25.0-26.0')	B851 (19.0-20.0')	B852 (23.0-24.0')	B852 (29.0-30.0 ft)	B852 (38.0-39.0 ft)	B852 (33.0-34.0 ft)	B-501-15
	Residential	Commercial	Construction	Residential	Commercial	Construction				5/8/2008	5/9/2008	5/9/2008	6/23/2008	6/24/2008	6/26/2008	7/13/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0017	0.0014	0.0016	0.0014	0.0014	0.0012	16.40
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0010	<0.0038	<0.0044	0.0010	<0.0048	<0.0037	2.42
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0025	0.0021	0.0025	0.0020	0.0023	0.0015	6.90
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0031	0.0026	0.0018	0.0041	0.0018	0.0014	16.90
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	39.0
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	0.006	<0.004	<0.004	<0.004	<0.004	<0.004	58.0
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	130.0
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.006	<0.004	<0.004	0.005	<0.004	0.005	67.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	68.0
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.003	<0.004	<0.004	<0.004	<0.004	<0.004	72.0
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	22.0
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	21.0
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.004	<0.004	<0.004	0.004	<0.004	0.004	64.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	7.30
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.007	<0.004	<0.004	0.004	<0.004	<0.004	160.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	120.0
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	24.0
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.013	<0.004	<0.004	<0.004	<0.004	<0.004	920.0
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.018	<0.004	<0.004	0.004	<0.004	0.004	350.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.011	<0.004	<0.004	0.004	<0.004	0.004	160.0

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil									B-501	B-502	B-502	B-503	B-503	B-504	B-504	B-504
	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-501-24	B-502-12	B-502-24	B-503-11	B-503-19	B-504-14	B-504-21	B-504-28
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/13/2004	7/13/2004	7/21/2004	7/13/2004	7/13/2004	7/13/2004	7/13/2004	7/13/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0016	30.30	0.423	0.223	3.0	15.10	33.10	0.0091
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0007	25.30	<0.0192	0.372	<0.106	28.50	1.10	0.002
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0016	108.0	<0.0192	0.12	0.835	8.24	8.76	0.0037
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.002	226.0	<0.0192	0.458	<0.106	24.0	3.46	0.0034
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.130	36.0	<0.011	<0.042	5.40	49.0	22.0	0.013
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.140	50.0	<0.011	<0.042	47.0	20.0	150.0	0.014
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.120	64.0	<0.011	<0.042	12.0	34.0	110.0	0.022
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.100	54.0	<0.011	<0.042	31.0	17.0	59.0	0.019
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.096	48.0	<0.011	<0.042	82.0	16.0	66.0	0.019
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.099	56.0	<0.011	<0.042	88.0	12.0	50.0	0.015
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.120	13.0	<0.011	<0.042	23.0	4.90	15.0	<0.011
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.100	17.0	<0.011	<0.042	25.0	4.0	16.0	<0.011
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.110	56.0	<0.011	<0.042	34.0	16.0	62.0	0.021
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.110	5.50	<0.011	<0.042	5.80	1.40	4.60	<0.011
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.100	140.0	<0.011	<0.042	37.0	36.0	120.0	0.033
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.120	120.0	<0.011	<0.042	13.0	48.0	120.0	0.022
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.120	17.0	<0.011	<0.042	21.0	4.70	15.0	<0.011
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.150	680.0	0.026	<0.042	7.70	230.0	330.0	0.16
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	<0.110	270.0	<0.011	<0.042	18.0	120.0	320.0	0.072
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.110	110.0	<0.011	<0.042	60.0	54.0	190.0	0.051

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil											B-505	B-505	B-505	B-506	B-506	B-507	B-507	B-508
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-505-11	B-505-22	B-505-28	B-506-17	B-506-28	B-507-19	B-507-28	B-508-11	
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/14/2004 10'-11'	7/14/2004 21'-22'	7/14/2004 27'-28'	7/22/2004 16'-17'	7/22/2004 27'-28'	7/21/2004 18'-19'	7/21/2004 27'-28'	7/19/2004 10'-11'	
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	5.04	0.0016	0.003	444.0	0.0023	659.0	0.0061	2.58	
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	17.70	0.0015	0.0023	122.0	0.0013	141.0	0.0034	37.1	
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.72	0.0043	0.0025	676.0	0.0036	1540.0	0.0143	0.22	
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	11.20	0.0042	0.004	549.0	0.004	1300.0	0.0091	19	
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	13.0	<0.011	0.02	55.0	<0.130	120.0		48	
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	14.0	0.012	0.03	390.0	<0.140	700.0		8.1	
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	11.0	<0.011	0.037	160.0	<0.120	410.0		24	
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	7.50	<0.011	0.029	79.0	<0.100	260.0		13	
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	7.0	<0.011	0.025	92.0	<0.096	240.0		13	
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	5.40	<0.011	0.02	73.0	<0.098	170.0		11	
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<3.50	<0.011	<0.011	18.0	<0.120	80.0		4.9	
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<3.0	<0.011	<0.011	22.0	<0.100	70.0		3.3	
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	6.70	<0.011	0.026	72.0	<0.110	240.0		12	
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<3.10	<0.011	<0.011	5.60	<0.110	<15.0		<2.500	
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	12.0	<0.011	0.051	170.0	<0.100	480.0		27	
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	15.0	<0.011	0.044	200.0	<0.120	550.0		35	
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<3.40	<0.011	<0.011	17.0	<0.120	64.0		4.3	
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	110.0	0.16	0.18	2200.0	<0.150	4600.0		190	
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	39.0	0.02	0.13	610.0	<0.110	940.0		78	
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	20.0	0.011	0.078	240.0	<0.110	710		39	

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil							Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-508	B-509	B-509	B-510	B-510	B-512	B-512	B-513	B-513	B-514
	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			B-508-28				B-509-18	B-509-28	B-510-12	B-510-28	B-512-11	B-512-24	B-513-12	B-513-24	B-514-17	
	Residential	Commercial	Construction	Residential	Commercial	Construction	7/19/2004 27'-28'				7/21/2004 17'-18'	7/21/2004 27'-28'	7/12/2004 11'-12'	7/12/2004 27'-28'	7/12/2004 10'-11'	7/12/2004 23'-24'	7/12/2004 11'-12'	7/12/2004 23'-24'	7/22/2004 16'-17'	
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0014	6.25	0.0007	0.0013	0.001	0.0009	0.0012	0.0018	0.001	333.00	
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.001	11.40	<0.0008	<0.0008	<0.0008	<0.0009	<0.0008	0.0015	<0.0008	797.0	
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0017	0.55	0.002	0.0018	0.0012	0.0011	0.0012	0.0037	0.001	266.0	
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0017	6.63	0.0027	0.001	0.0014	0.0018	0.0012	0.0035	0.001	721.0	
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.011	0.086	0.022	<0.010	<0.010	0.18	<0.010	<0.130	<0.031	1500.0	
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.011	0.260	0.110	<0.010	0.010	<0.058	<0.010	<0.140	<0.031	400.0	
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.011	0.091	0.098	<0.010	<0.010	0.083	<0.010	<0.120	<0.031	600.0	
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.011	0.066	0.072	<0.010	<0.010	<0.058	<0.010	<0.110	<0.031	250.0	
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.011	0.074	0.079	<0.010	<0.010	<0.058	<0.010	<0.097	<0.031	290.0	
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.011	0.053	0.058	<0.010	<0.010	<0.058	<0.010	<0.099	<0.031	200.0	
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.011	0.036	0.039	<0.010	<0.010	<0.058	<0.010	<0.120	<0.031	100.0	
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.011	0.016	0.017	<0.010	<0.010	<0.058	<0.010	<0.100	<0.031	59.0	
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.011	0.066	0.072	<0.010	<0.010	<0.058	<0.010	<0.110	<0.031	260.0	
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.011	<0.011	<0.011	<0.010	<0.010	<0.058	<0.010	<0.110	<0.031	26.0	
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.011	0.120	0.14	<0.010	<0.010	0.066	<0.010	<0.110	<0.031	660.0	
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.011	0.110	0.09	<0.010	<0.010	0.164	<0.010	<0.130	<0.031	840.0	
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.011	0.027	0.028	<0.010	<0.010	<0.058	<0.010	<0.120	<0.031	84.0	
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.03	7.90	0.47	<0.010	<0.010	0.104	<0.010	<0.150	<0.031	7700.0	
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.019	0.30	0.31	<0.010	<0.010	0.317	<0.010	<0.110	<0.031	2400.0	
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.011	0.19	0.22	<0.010	<0.010	0.087	<0.010	<0.110	<0.031	1000.0	

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-514	B-515	B-515	B-516	B-516	B-550	B-550	B-550	B-551
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-514-28	B-515-19	B-515-32	B-516-14	B-516-24	B-550-11	B-550-16	B-550-28	B-551-16
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/22/2004	7/16/2004	7/16/2004	7/22/2004	7/22/2004	7/20/2004	7/20/2004	7/20/2004	7/20/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0008	29.30	0.0020	5.45	0.0007	1.24	5.810	0.0011	0.0148
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0009	5.73	0.0014	11.40	<0.0008	4.02	1.440	<0.0008	0.042
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0014	35.10	0.0022	1.18	0.0011	0.15	0.798	0.0018	0.0736
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0018	27.60	0.0024	25.30	0.0015	1.93	1.430	0.0014	0.128
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.011	3.0	<0.120	1.90	<0.011	36.0	0.050	<0.011	0.013
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.011	26.0	<0.140	2.80	<0.011	4.70	0.020	<0.011	0.08
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.011	11.0	<0.120	6.0	<0.011	18.0	0.054	<0.011	0.021
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.011	5.80	<0.100	3.0	<0.011	6.70	0.04	<0.011	0.027
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.011	6.50	<0.093	3.60	<0.011	7.50	0.034	<0.011	0.023
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.011	4.50	<0.095	2.50	<0.011	4.90	0.032	<0.011	0.020
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.011	2.10	<0.120	1.20	<0.011	2.0	0.011	<0.011	<0.011
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.011	1.60	<0.100	0.85	<0.011	1.40	<0.011	<0.011	<0.011
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.011	5.90	<0.110	2.80	<0.011	6.50	0.04	<0.011	0.026
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.011	0.57	<0.100	0.40	<0.011	0.61	<0.011	<0.011	<0.011
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.011	13.0	<0.100	7.30	<0.011	16.0	0.077	<0.011	0.04
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.011	16.0	<0.120	6.80	<0.011	24.0	0.050	<0.011	0.019
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.011	1.90	<0.110	1.10	<0.011	1.80	<0.011	<0.011	<0.011
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.085	86.0	<0.150	130.0	0.057	35.0	0.260	0.061	1.50
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	<0.011	38.0	<0.100	18.0	0.018	49.0	0.170	0.021	0.066
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.011	20.0	<0.100	9.50	0.012	20.0	0.10	<0.011	0.058

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.



**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-551	B-553	B-553	B-553	B-554	B-554	B-556	B-556
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-551-28	B-553-15	B-553-24	B-553-32	B-554-18	B-554-32	B-556-20	B-556-28
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/15/2004 27'-28'	7/14/2004 14'-15'	7/14/2004 23'-24'	7/14/2004 31'-32'	7/15/2004 17'-18'	7/15/2004 31'-32'	7/20/2004 19'-20'	7/20/2004 27'-28'
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0026	3.03	97.30	0.0035	5.62	0.0037	3.35	0.0021
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0033	10.10	32.90	0.0015	9.02	0.0048	4.51	0.0023
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0034	16.10	164.0	0.0045	7.78	0.0095	10.40	0.005
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0056	37.30	155.0	0.0036	13.0	0.0178	13.90	0.0046
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.038	16.0	100.0	<0.130	99.0	<0.011	12.0	<0.120
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.011	36.0	660.0	<0.140	230.0	<0.011	52.0	<0.140
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.037	78.0	370.0	<0.120	170.0	<0.011	28.0	<0.120
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.032	51.0	190.0	<0.100	78.0	<0.011	13.0	<0.100
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.029	53.0	190.0	<0.095	86.0	<0.011	17.0	<0.093
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.027	56.0	150.0	<0.097	74.0	<0.011	11.0	<0.096
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.013	12.0	58.0	<0.120	13.0	<0.011	3.00	<0.120
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.011	20.0	49.0	<0.100	26.0	<0.011	3.30	<0.100
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.031	47.0	200.0	<0.110	79.0	<0.011	14.0	<0.110
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.011	4.0	17.0	<0.100	<5.10	<0.011	0.96	<0.100
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.058	130.0	420.0	<0.100	170.0	<0.011	30.0	<0.100
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.036	65.0	560.0	<0.120	240.0	<0.011	31.0	<0.120
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.011	14.0	52.0	<0.110	14.0	<0.011	2.80	<0.110
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.082	520.0	2600.0	<0.150	1100.0	0.057	240.0	<0.150
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.12	220.0	980.0	<0.110	590.0	0.025	90.0	<0.100
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.076	140.0	590.0	<0.110	240.0	0.011	47.0	<0.100

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-557	B-557	B-558	B-558	B-558	B-559	B-559	B-560
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-557-12	B-557-24	B-558-12	B-558-18	B-558-28	B-559-19	B-559-28	B-560-13
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/20/2004	7/20/2004	7/19/2004	7/19/2004	7/19/2004	7/19/2004	7/19/2004	7/19/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0308	0.0009	0.0095	0.0905	0.0016	0.0014	0.0009	0.0868
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	1.030	<0.0009	0.005	0.0209	0.001	0.0008	<0.0007	18.60
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0099	0.0011	0.0025	0.0713	0.0022	0.0021	0.0013	0.15
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.532	0.0012	0.0521	0.0821	0.0028	0.0022	0.0013	19.10
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	6.20	0.023	0.820	0.042	0.012	<0.011	0.025	72.0
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	1.50	<0.011	0.320	0.4	<0.010	<0.011	0.029	6.30
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	4.20	0.023	0.190	0.019	<0.010	<0.011	<0.011	37.0
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	2.30	0.017	0.140	0.017	<0.010	<0.011	<0.011	17.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	1.90	0.014	0.130	0.015	<0.010	<0.011	<0.011	22.0
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	1.60	0.012	0.10	<0.011	<0.010	<0.011	<0.011	16.0
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	0.50	<0.011	0.047	<0.011	<0.010	<0.011	<0.011	4.80
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.45	<0.011	0.032	<0.011	<0.010	<0.011	<0.011	5.10
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	2.10	0.016	0.140	0.017	<0.010	<0.011	<0.011	18.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.240	<0.011	0.015	<0.011	<0.010	<0.011	<0.011	1.30
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	4.20	0.027	0.430	0.029	0.015	<0.011	<0.011	41.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	5.30	0.020	0.320	0.062	<0.010	<0.011	<0.011	44.0
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.41	<0.011	0.039	<0.011	<0.010	<0.011	<0.011	4.40
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.45	0.053	0.028	2.5	0.031	0.013	0.016	290.0
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	12.0	0.070	2.10	0.069	0.033	<0.011	<0.011	120.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	6.40	0.040	0.630	0.044	0.022	<0.011	<0.011	63.0

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5  
BTEX and PAHs - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-560	B-560	B-561	B-561	B-561	B-562	B-562
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-560-20	B-560-28	B-561-13	B-561-19	B-561-32	B-562-14	B-562-28
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/16/2004	7/16/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0104	0.0023	0.204	0.0033	0.0015	6.26	0.002
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0021	0.0022	1.60	0.0039	<0.0008	58.50	0.0011
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0061	0.0028	<0.0866	0.0028	0.0017	0.499	0.0041
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0045	0.0039	2.06	0.0056	0.0017	54.30	0.0036
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.014	0.065	27.0	0.020	<0.011	93.0	0.014
Acenaphthylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	85	0.07	(mg/kg)	<0.011	0.011	3.30	<0.011	<0.011	12.0	<0.011
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.014	0.065	11.0	0.016	<0.011	52.0	<0.011
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.019	0.068	5.30	0.012	<0.011	26.0	<0.011
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.018	0.055	5.50	<0.011	<0.011	22.0	<0.011
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.015	0.051	3.90	<0.011	<0.011	18.0	<0.011
Benzo(ghi)perylene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	27000	1.70	(mg/kg)	<0.011	0.024	1.50	<0.011	<0.011	6.20	<0.011
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.011	0.012	1.20	<0.011	<0.011	6.0	<0.011
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.019	0.048	5.90	0.013	<0.011	26.0	<0.011
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.011	<0.011	0.430	<0.011	<0.011	<3.0	<0.011
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.029	0.091	9.40	0.020	<0.011	54.0	0.012
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.011	0.059	15.0	0.018	<0.011	66.0	<0.011
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.011	0.016	1.30	<0.011	<0.011	5.20	<0.011
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.057	0.20	29.0	0.110	<0.011	320.0	0.041
Phenanthrene	2300 <sup>(1)</sup>	61000 <sup>(1)</sup>	61000 <sup>(1)</sup>	----	----	----	200	2.50	(mg/kg)	0.05	0.20	37.0	0.051	<0.011	170.0	0.037
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.044	0.14	14.0	0.029	<0.011	78.0	0.019

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**Table 5-6  
Metals and Cyanide - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

<b>Tier 1 Remediation Objectives - Soil</b>																
<b>CONSTITUENT</b>	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample Location:	B-802	B-803	B-805	B-806	B-807	B-809	B-811
	Residential	Commercial	Construction	Residential	Commercial	Construction			Sample ID:	B802 (14.5-15.5)	B803 (21.0-22.0)	B805 (13.0-14.0)	B806 (11.0-12.0)	B807 (13.0-14.0)	B809 (15.0-16.0)	B811 (11.0-12.0)
								Sample Date:	4/15/2008	5/7/2008	4/9/2008	4/8/2008	4/8/2008	5/8/2008	5/5/2008	
								Sample Depth (feet):	14.5-15.5	21.0-22.0	13.0-14.0	11.0-12.0	13.0-14.0	15.0-16.0	11.0-12.0	
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg	5.84	5.41	8.25	6.78	6.87	4.69	6.43	
Chromium	230	6,100	4100	270	420	690	28	mg/kg	17.9	14.2	16.2	16.6	16.3	15.3	14.4	
Lead	400	800	700	---	---	---	107	mg/kg	15.8	8.65	11.6	11.0	12.1	8.68	10.1	
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg	<0.53	<0.57	<0.57	<0.57	<0.57	<0.55	<0.57	
Cyanide (total)	---	---	---	---	---	---	---	mg/kg	0.33	<0.57	<0.57	<0.57	<0.57	<0.55	<0.57	

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-6  
Metals and Cyanide - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

<b>Tier 1 Remediation Objectives - Soil</b>																
<b>CONSTITUENT</b>	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample Location:	B-815	B-817	B-818	B-819	B-822	B-824	B-825
	Residential	Commercial	Construction	Residential	Commercial	Construction			Sample ID:	B815 (25.0-26.0)	B817 (26.0-27.0)	B818 (13.0-15.0')	B819 (28.0-29.0)	B822 (13.0-15.0)	B824 (23.0-24.0)	B825 (25.0-26.0)
								Sample Date:	4/7/2008	4/7/2008	4/1/2008	4/7/2008	4/1/2008	4/4/2008	4/3/2008	
								Sample Depth (feet):	25.0-26.0	26.0-27.0	13.0-15.0'	28.0-29.0	13.0-15.0	23.0-24.0	25.0-26.0	
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg	6.35	6.65	9.97	6.56	9.99	8.18	7.68	
Chromium	230	6,100	4100	270	420	690	28	mg/kg	15.9	13.3	17.3	16.70	18.5	15.5	15.8	
Lead	400	800	700	---	---	---	107	mg/kg	11.3	12.1	16.2	11.10	12.8	10.5	10.1	
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg	<0.56	<0.55	<0.58	<0.56	<0.52	<0.55	<0.55	
Cyanide (total)	---	---	---	---	---	---	---	mg/kg	<0.56	<0.54	2.02	<0.56	0.25	<0.55	<0.55	

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-6  
Metals and Cyanide - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

<b>Tier 1 Remediation Objectives - Soil</b>										Sample Location:	B-830	B-831	B-835	B-849	B-850
<b>CONSTITUENT</b>	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I) mg/L	UNITS	Sample ID:	B830 (28.0-30.0)	B831 (9.0-10.0)	B835 (28.0-29.0)	B849 (16.0-17.0)	B850 (16.0-17.0)	
	Residential	Commercial	Construction	Residential	Commercial	Construction				Sample Date:	4/3/2008	4/4/2008	4/3/2008	5/7/2008	5/8/2008
								Sample Depth (feet):	28.0-33.0	9.0-10.0	28.0-29.0	16.0-17.0	16.0-17.0		
Arsenic	13.0	13.0	61	750	1200	25000	31	mg/kg	8.52	8.22	7.78	5.58	6.08		
Chromium	230	6,100	4100	270	420	690	28	mg/kg	12.4	10.60	12.7	12.0	12.4		
Lead	400	800	700	---	---	---	107	mg/kg	9.39	11.0	9.62	6.88	6.67		
Cyanide (amenable)	1600	41000	4100	---	---	---	40	mg/kg	<0.55	<0.57	<0.55	<0.54	<0.55		
Cyanide (total)	---	---	---	---	---	---	---	mg/kg	0.43	0.65	0.59	<0.54	<0.55		

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**Table 5-7  
Foc and pH Results - 0 to 3 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

<b>Tier 1 Remediation Objectives</b>								
<b>CONSTITUENT</b>	<b>UNITS/DEPTH</b>	<b>B-800</b>	<b>B-801</b>	<b>B-809</b>	<b>B-814</b>	<b>B-817</b>	<b>B-845</b>	<b>B-845</b>
		<b>B800 (2.0-3.0)</b>	<b>B01 (2.0-3.0')</b>	<b>B09 (2.0-3.0')</b>	<b>B814 (0.0-2.0')</b>	<b>B817 (2.0-3.0')</b>	<b>B845 (0.0-2.0)</b>	<b>B845 (2.0-4.0)</b>
		<b>4/14/2008</b>	<b>4/7/2008</b>	<b>5/8/2008</b>	<b>4/1/2008</b>	<b>4/7/2008</b>	<b>5/6/2008</b>	<b>5/6/2008</b>
		<b>2.0-3.0</b>	<b>2.0-3.0'</b>	<b>2.0-3.0'</b>	<b>0.0-2.0'</b>	<b>2.0-3.0'</b>	<b>0.0-2.0</b>	<b>2.0-4.0</b>
FOC	wt%	3.55			4.55	2.32	1.77	0.85
organic matter	wt%	6.13			7.84	4.00	3.04	1.47
pH (1:1)		7.79	7.71	7.25		7.44		

**Table 5-8  
FOC and pH - 3- to 10- Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

**Tier 1 Remediation Objectives**

CONSTITUENT	UNITS/DEPTH	B-800	B-801	B-806	B-809	B-814	B-817	B-826	B-832	B-845	B-852
		B800 (9.0-10.0)	B801 (9.0-10.0')	B806 (8.5-9.5')	B809 (9.0-10.0')	B814 (7.0-8.0')	B817 (8.0-9.0')	B826 (8.0-9.0')	B832 (7.0-8.0')	B845 (2.0-4.0)	B852 (9.0-10.0')
		4/14/2008	4/8/2008	4/8/2008	5/8/2008	4/1/2008	4/7/2008	4/3/2008	4/4/2008	5/6/2008	5/9/2008
		9.0-10.0	9.0-10.0'	8.5-9.5'	9.0-10.0'	7.0-8.0'	8.0-9.0'	8.0-9.0'	7.0-8.0'	2.0-4.0	9.0-10.0
FOC	wt%	0.51		0.36		0.5	0.56			0.85	
organic matter	wt%	0.87		0.63		0.86	0.97			1.47	
pH (1:1)		7.86	8.22		7.22		7.86	8.07	7.8		8.15



**Table 5-9**  
**FOC and pH - Greater than 10 Feet**  
**Former MGP Site**  
**Champaign, Illinois**  
**AmerenIP**

**Tier 1 Remediation Objectives**

CONSTITUENT	UNITS/DEPTH	B-800	B-801	B-806	B-807	B-817	B-826	B-851
		B800 (11.5-12.5) 4/14/2008 11.5-12.5	B801 (25.0-26.0') 4/8/2008 25.0-26.0'	B806 (11.0-12.0') 4/8/2008 11.0-12.0'	B807 (13.0-14.0') 4/8/2008 13.0-14.0'	B817 (26.0-27.0') 4/7/2008 26.0-27.0'	B826 (16.0-17.0') 4/3/2008 16.0-17.0'	B851 (14.0-16.0) 5/9/2008 14.0-16.0
FOC	wt%	0.47		0.39				1.4
organic matter	wt%	0.8		0.67				2.41
pH (1:1)		8.14	8.09		8.13	8.08	8.21	

**Table 5-9  
FOC and pH - Greater than 10 Feet  
Former MGP Site  
Champaign, Illinois  
AmerenIP**

**Tier 1 Remediation Objectives**

<b>CONSTITUENT</b>	<b>UNITS/DEPTH</b>	<b>B-851</b>
		<b>B851 (19.0-20.0) 5/9/2008 19.0-20.0</b>
FOC	wt%	1.04
organic matter	wt%	1.79
pH (1:1)		

TABLE 5-10  
GROUNDWATER RESULTS BTEX, PAHs - 2004 Data  
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS  
CHAMPAIGN MGP SITE  
CHAMPAIGN, ILLINOIS  
AMERENIP

CONSTITUENT	UNITS	CLASS I	UMW-102	UMW-102	UMW-102	UMW-102	UMW-102	UMW-102	UMW-102	UMW-102	UMW-102	UMW-104	UMW-105	UMW-105	UMW-106	UMW-107	UMW-107
		GROUNDWATER	7/26/2004	3/15/2005	6/9/2005	9/27/2005	12/27/2005	6/22/2006	9/19/2006	12/13/2006	9/21/2007	7/26/2004	7/26/2004	3/15/2005	7/26/2004	7/26/2004	3/15/2005
		STANDARD															
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	<5.0	1.4	1.4	<5.0	<5.0	<5.0	77	64.1
Acenaphthene	(ug/l)	420	<3.00	---	---	---	---	---	---	---	---	---	<3.00	<3.00	---	<3.00	<3.00
Acenaphthylene	(ug/l)	210	<1.50	---	---	---	---	---	---	---	---	---	<1.50	<1.50	---	<1.50	<1.50
Anthracene	(ug/l)	2100	<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
Benzo(a)pyrene	(ug/l)	0.2	<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
Benzo(ghi)perylene	(ug/l)	---	<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
Chrysene	(ug/l)	1.5	<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
Fluoranthene	(ug/l)	280	<0.90	---	---	---	---	---	---	---	---	---	<0.90	<0.90	---	<0.90	<0.90
Fluorene	(ug/l)	280	<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
Naphthalene	(ug/l)	140	<3.00	---	---	---	---	---	---	---	---	---	<3.00	<3.00	---	<3.00	87.7
Phenanthrene	(ug/l)	210	<0.60	---	---	---	---	---	---	---	---	---	<0.60	<0.60	---	<0.60	<0.60
Pyrene	(ug/l)	210	<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 5-10**  
**GROUNDWATER RESULTS BTEX, PAHs - 2004 Data**  
**COMPARISON TO CLASS 1 GROUNDWATER STANDARDS**  
**CHAMPAIGN MGP SITE**  
**CHAMPAIGN, ILLINOIS**  
**AMERENIP**

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-107	UMW-107	UMW-107	UMW-107	UMW-107	UMW-107	UMW-107	UMW-107	UMW-108	UMW-108	UMW-108	UMW-108	UMW-108	UMW-108	UMW-108
			6/9/2005	9/27/2005	12/27/2005	6/22/2006	9/19/2006	12/13/2006	6/14/2007	9/21/2007	7/26/2004	3/15/2005	6/9/2005	9/27/2005	12/27/2005	6/22/2006	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	<5.0	<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 5-10  
GROUNDWATER RESULTS BTEX, PAHs - 2004 Data  
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS  
CHAMPAIGN MGP SITE  
CHAMPAIGN, ILLINOIS  
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-108	UMW-108	UMW-108	UMW-109	UMW-110	UMW-111A	UMW-111A	UMW-111A	UMW-111A	UMW-111A	UMW-111A	UMW-111A	UMW-111A	UMW-111A	UMW-111A
			12/13/2006	6/14/2007	9/14/2007	7/26/2004	7/26/2004	7/26/2004	3/15/2005	6/9/2005	9/27/2005	12/27/2005	6/22/2006	9/19/2006	12/13/2006	6/14/2007	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 5-10**  
**GROUNDWATER RESULTS BTEX, PAHs - 2004 Data**  
**COMPARISON TO CLASS 1 GROUNDWATER STANDARDS**  
**CHAMPAIGN MGP SITE**  
**CHAMPAIGN, ILLINOIS**  
**AMERENIP**

CONSTITUENT	UNITS	CLASS I	UMW-112	UMW-112	UMW-112	UMW-112	UMW-112	UMW-112	UMW-112	UMW-112	UMW-112	UMW-112	UMW-113	UMW-114	UMW-114	UMW-114	UMW-114
		GROUNDWATER	7/26/2004	3/15/2005	6/9/2005	9/27/2005	12/27/2005	6/22/2006	9/19/2006	12/13/2006	6/14/2007	9/21/2007	7/26/2004	7/26/2004	3/15/2005	6/9/2005	9/27/2005
		STANDARD															
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 5-10  
GROUNDWATER RESULTS BTEX, PAHs - 2004 Data  
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS  
CHAMPAIGN MGP SITE  
CHAMPAIGN, ILLINOIS  
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-114	UMW-114	UMW-114	UMW-114	UMW-114	UMW-114	UMW-115	UMW-115	UMW-115	UMW-115	UMW-115	UMW-115	UMW-115	UMW-115	UMW-115
			12/27/2005	6/22/2006	9/19/2006	12/13/2006	6/14/2007	9/21/2007	7/26/2004	3/15/2005	6/9/2005	9/27/2005	12/27/2005	6/22/2006	9/19/2006	12/13/2006	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	<0.043	<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 5-10  
GROUNDWATER RESULTS BTEX, PAHs - 2004 Data  
COMPARISON TO CLASS 1 GROUNDWATER STANDARDS  
CHAMPAIGN MGP SITE  
CHAMPAIGN, ILLINOIS  
AMERENIP

CONSTITUENT	UNITS	CLASS I GROUNDWATER STANDARD	UMW-115	UMW-116	UMW-116	UMW-116	UMW-116	UMW-116	UMW-116	UMW-116	UMW-116	UMW-116	UMW-116	UMW-116
			9/21/2007	7/26/2004	3/15/2005	6/9/2005	9/27/2005	12/27/2005	6/22/2006	9/16/2006	12/13/2006	6/14/2007	6/14/2007	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:



**TABLE 5-11  
Groundwater Analytical Data - BTEX, PAHs, Metals, Cyanide  
May 2008**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	Class 1	Units	UMW-102	UMW-104	UMW-105	UMW-106	UMW-107	UMW-108	UMW-109	UMW-110	UMW-111A	UMW-113	UMW-114	UMW-115	UMW-116	UMW-117
	Groundwater Standard		5/22/2008	5/22/2008	5/21/2008	5/21/2008	5/20/2008	5/20/2008	5/22/2008	5/21/2008	5/22/2008	5/20/2008	5/20/2008	5/20/2008	5/20/2008	5/20/2008
Benzene	0.005	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.236	<0.0020	<0.0020	0.0132	<0.0020	0.0035	1.320	0.0116	<0.0020	<0.0020
Ethylbenzene	0.70	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0082	<0.0050	<0.0050	0.0387	<0.0050	0.0017	1.230	<0.005	<0.0050	<0.0050
Toluene	1.0	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0014	<0.0050	<0.005	0.150	<0.005	<0.0050	<0.0050
Xylene (total)	10.0	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.014	<0.0050	<0.0050	0.0353	<0.0050	0.001	1.010	<0.005	<0.0050	<0.0050
<i>Polynuclear Aromatic Hydrocarbons</i>																
<i>8270 SIMS</i>																
Acenaphthene	0.42	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0217	<0.0001	0.00961	0.0729	0.00390	<0.0001	<0.0001
Acenaphthylene	0.21 <sup>(1)</sup>	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.00024	<0.0001	<0.0001	0.0451	<0.0001	0.00959	0.0217	0.00115	<0.0001	<0.0001
Anthracene	2.10	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.0001	0.00388	<0.0001	0.00027	0.00095	0.00021	<0.0001	<0.0001
Benzo(a)anthracene	0.00013	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00019	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Benzo(a)pyrene	0.0002	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Benzo(b)fluoranthene	0.00018	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Benzo(ghi)perylene	0.21 <sup>(1)</sup>	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Benzo(k)fluoranthene	0.00017	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Bis(2-ethylhexyl)phthalate	0.006	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002
Chrysene	0.0015	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Dibenzo(a,h)anthracene	0.0003	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Diethyl phthalate	5.60	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.00100	<0.001	<0.001
Dimethyl phthalate	70.0 <sup>(1)</sup>	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.00100	<0.001	<0.001
Di-n-butyl phthalate	0.70	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.00100	<0.001	<0.001
Fluoranthene	0.28	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00184	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Fluorene	0.28	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00586	<0.0001	0.00056	0.015	0.00139	<0.0001	<0.0001
Indeno(1,2,3-cd)pyrene	0.00043	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
m,p-Cresol	0.035	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Naphthalene	0.14	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0399	<0.0001	<0.0001	0.00645	<0.0001	0.00068	4.61	<0.00010	<0.0001	0.00015
o-Cresol	0.35	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Phenanthrene	0.21 <sup>(1)</sup>	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0213	<0.0001	<0.0001	0.00522	<0.00010	<0.0001	<0.0001
Pyrene	0.21	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00244	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Total PNA's except Naphthalene	---	mg/L	<0.00013	<0.00013	<0.00013	<0.00013	0.00037	<0.00013	<0.00013	0.102	<0.00013	0.02	0.116	0.00665	<0.00013	<0.00013
<i>Metals</i>																
Arsenic 7060A	0.05	mg/L	0.007	0.0007	<0.003	<0.003	0.0059	<0.003	<0.003	0.0069	<0.003	0.0142	0.0194	0.0107	<0.003	<0.003
Lead 7421	0.0075	mg/L	<0.002	0.0017	<0.002	<0.002	<0.002	<0.002	<0.002	0.0004	<0.002	<0.002	<0.002	<0.002	<0.002	0.0005
Chromium 6010B	0.10	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0166	<0.01	<0.01	<0.01	<0.01	<0.01	0.019	<0.01
Cyanide (total) 9012A	0.20	mg/L	<0.007	0.186	0.098	0.36	0.761	0.043	<0.007	0.916	<0.007	0.965	2.28	2.67	0.004	<0.007

<sup>(1)</sup> Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds Class 1 Groundwater Standards.

<0.0005 Laboratory method detection limit is higher than the Class 1 Groundwater Standards

mg/kg Milligrams per kilogram

<0.0001 Not detected at the detection limit identified.

**TABLE 5-11  
Groundwater Analytical Data - BTEX, PAHs, Metals, Cyanide  
May 2008**

**Former MGP Site  
Champaign, Illinois  
AmerenIP**

CONSTITUENT	Class 1		UMW-118	UMW-119	UMW-120	UMW-121	UMW-300	UMW-301	UMW-302	UMW-302D	UMW-303	UMW-303D	UMW-304	UMW-305	UMW-306	UMW-307
	Groundwater Standard	Units	5/22/2008	5/22/2008	5/22/2008	5/21/2008	5/23/2008	5/21/2008	5/21/2008	5/21/2008	5/22/2008	5/22/2008	5/22/2008	7/10/2008	7/10/2008	7/10/2008
Benzene	0.005	mg/L	<0.0020	0.0034	<0.0020	<0.0020	<0.0020	<0.002	1.320	1.33	<0.0020	<0.0020	0.0402	<0.0020	<0.0020	<0.0020
Ethylbenzene	0.70	mg/L	<0.0050	0.0062	<0.0050	<0.0050	<0.0050	<0.005	0.514	0.49	<0.0050	<0.0050	0.450	<0.0050	<0.0050	<0.0050
Toluene	1.0	mg/L	<0.0050	<0.005	<0.0050	<0.0050	<0.0050	<0.005	<0.0500	<0.500	<0.0050	<0.0050	0.0076	<0.0050	<0.0050	<0.0050
Xylene (total)	10.0	mg/L	<0.0050	0.0066	<0.0050	<0.0050	<0.0050	0.0029	0.160	0.150	<0.0050	<0.0050	0.150	<0.0050	<0.0050	<0.0050
<i>Polynuclear Aromatic Hydrocarbons</i>																
<i>8270 SIMS</i>																
Acenaphthene	0.42	mg/L	<0.0001	0.0023	<0.0001	<0.00045	<0.0001	0.00078	<0.0005	0.00011	<0.0001	<0.0001	0.00934	<0.00010	<0.00010	<0.00010
Acenaphthylene	0.21 <sup>(1)</sup>	mg/L	<0.0001	0.00152	<0.0001	<0.00045	<0.0001	0.00902	0.0007	0.00069	<0.0001	<0.0001	0.00133	<0.00010	<0.00010	<0.00010
Anthracene	2.10	mg/L	<0.0001	0.00014	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(a)anthracene	0.00013	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(a)pyrene	0.0002	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(b)fluoranthene	0.00018	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(ghi)perylene	0.21 <sup>(1)</sup>	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(k)fluoranthene	0.00017	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Bis(2-ethylhexyl)phthalate	0.006	mg/L	<0.002	<0.002	<0.002	<0.00909	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.00200	<0.00200	<0.00200
Chrysene	0.0015	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Dibenzo(a,h)anthracene	0.0003	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diethyl phthalate	5.60	mg/L	<0.001	<0.001	<0.001	<0.00455	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00100	<0.00100	<0.00100
Dimethyl phthalate	70.0 <sup>(1)</sup>	mg/L	<0.001	<0.001	<0.001	<0.00455	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	0.00062	<0.00100	<0.00100
Di-n-butyl phthalate	0.70	mg/L	<0.001	0.00051	<0.001	<0.00455	<0.001	0.0005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00100	<0.00100	<0.00100
Fluoranthene	0.28	mg/L	<0.0001	0.0003	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Fluorene	0.28	mg/L	<0.0001	0.00068	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	0.0001	<0.00010	<0.00010	<0.00010
Indeno(1,2,3-cd)pyrene	0.00043	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
m,p-Cresol	0.035	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	0.00312	0.00969	0.00996	0.00175	0.0018	0.00391	<0.00010	<0.00010	<0.00010
Naphthalene	0.14	mg/L	<0.0001	0.00092	<0.0001	<0.00045	<0.0001	0.00073	3.36	3.57	0.00009	<0.0001	0.0275	<0.00010	<0.00010	<0.00010
o-Cresol	0.35	mg/L	<0.0001	0.0001	<0.0001	<0.00045	<0.0001	0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Phenanthrene	0.21 <sup>(1)</sup>	mg/L	<0.0001	0.0001	<0.0001	<0.00045	<0.0001	0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Pyrene	0.21	mg/L	<0.0001	0.00039	<0.0001	<0.00045	<0.0001	0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Total PNA's except Naphthalene	---	mg/L	<0.00013	0.00532	<0.00013	<0.00059	<0.00013	0.0098	0.0007	0.0008	<0.00013	<0.00013	0.0108	<0.00013	<0.00013	<0.00013
<i>Metals</i>																
Arsenic 7060A	0.05	mg/L	0.0078	0.0012	0.0015	<0.003	0.002	0.0011	0.002	0.0017	0.0023	0.0038	<0.003	0.0016	0.0018	0.003
Lead 7421	0.0075	mg/L	0.0151	0.0015	0.0029	<0.002	0.0006	0.001	<0.002	0.0022	<0.002	0.0004	<0.002	<0.0020	<0.0020	0.0011
Chromium 6010B	0.10	mg/L	0.0266	<0.01	0.0044	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0100	<0.0100	>0.0100
Cyanide (total) 9012A	0.20	mg/L	0.047	0.013	<0.007	0.415	<0.007	<0.007	0.044	0.045	<0.007	<0.007	0.031	<0.007	0.010	0.016

<sup>(1)</sup> Non-TACO or provisional ROs published

--- No ROs have been established.

Constituent exceeds Class 1 Groundwater

<0.0005 Laboratory method detection limit is high

mg/kg Milligrams per kilogram

<0.0001 Not detected at the detection limit identified.

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

**SOIL**

**Inorganics**

Cyanide

**Metals**

Chromium

Lead

Arsenic

**Volatile Aromatics**

Benzene

Ethylbenzene

Toluene

Total Xylenes

**Polycyclic Aromatic Hydrocarbons**

Acenaphthylene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(k)fluoranthene

Dibenzo (a,h,)anthracene

Indeno(1,2,3,cd)pyrene

Naphthalene

Phenanthrene

**GROUNDWATER**

**Inorganics**

Cyanide

**Volatile Aromatics**

Benzene

Ethylbenzene

**Polycyclic Aromatic Hydrocarbons**

Benzo(a)anthracene

Naphthalene

**Table 6-2**

**TOC SAMPLE SUMMARY  
CHAMPAIGN MGP SITE  
CHAMPAIGN , ILLINOIS  
AMERENIP**

<b>Location</b>	<b>Depth (Feet)</b>	<b>Soil Type</b>	<b>TOC (mg/kg)</b>
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**

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

Notes:

TPH - Total petroleum hydrocarbons

mg/kg - milligrams per kilogram

<sup>(1)</sup> - Default value from IAC 742

<sup>(2)</sup> - Average TOC value from samples CHPH-200-02, CHPH-201-02, and CHPH -202-02

## List of Figures

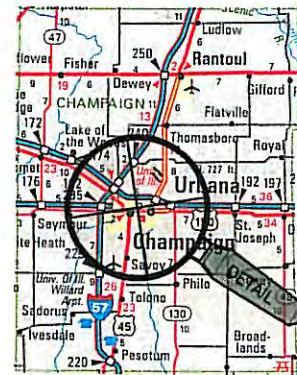
<b>Figure Number</b>	<b>Figure Name</b>
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6-5	Tier 1 Exceedances – Greater Than 10-Foot Depth Interval – BTEX, PAHs



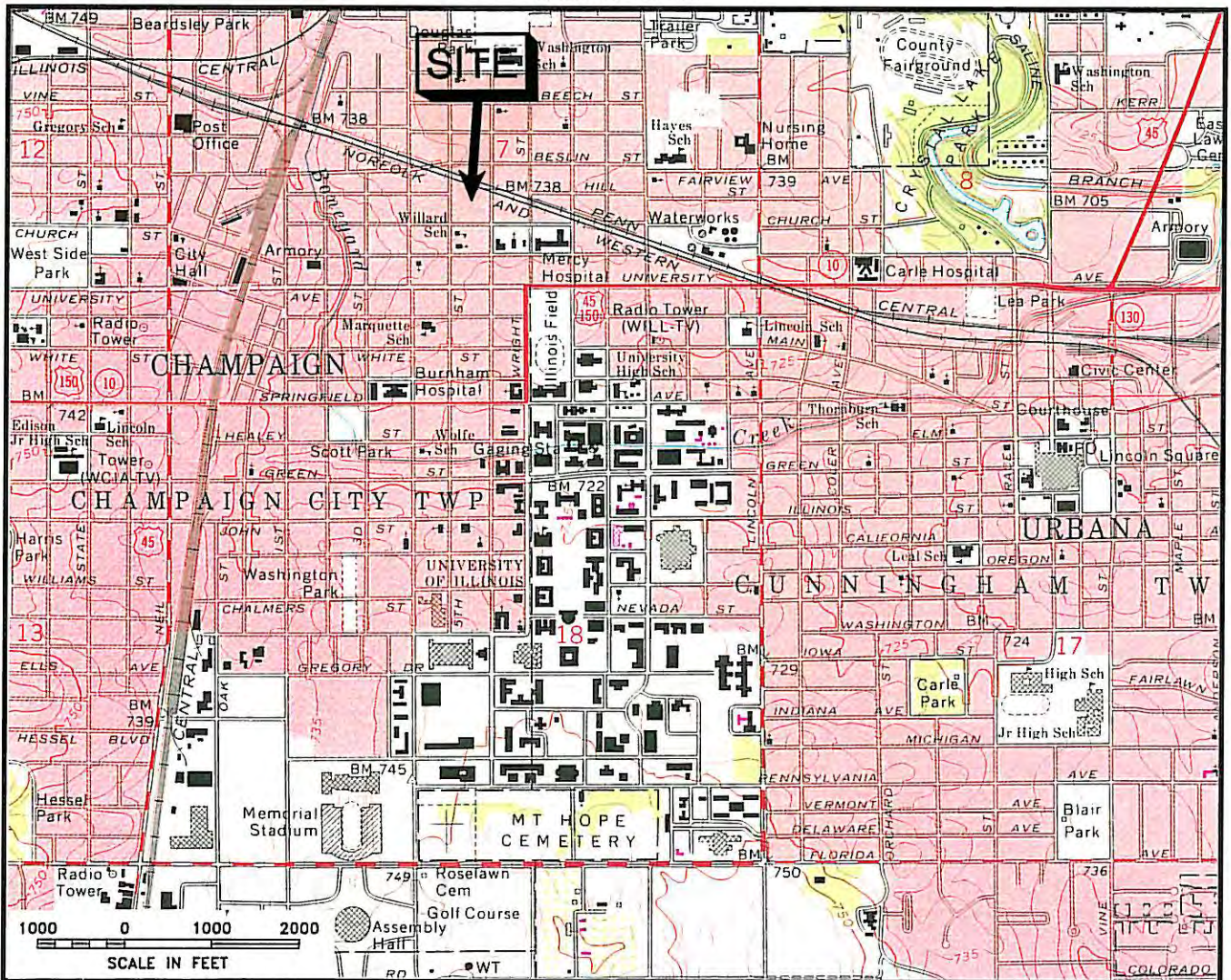
ILLINOIS



CHAMPAIGN COUNTY



AREA IN DETAIL



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

SCALE IS VARIABLE



COL. 524\00345E-001

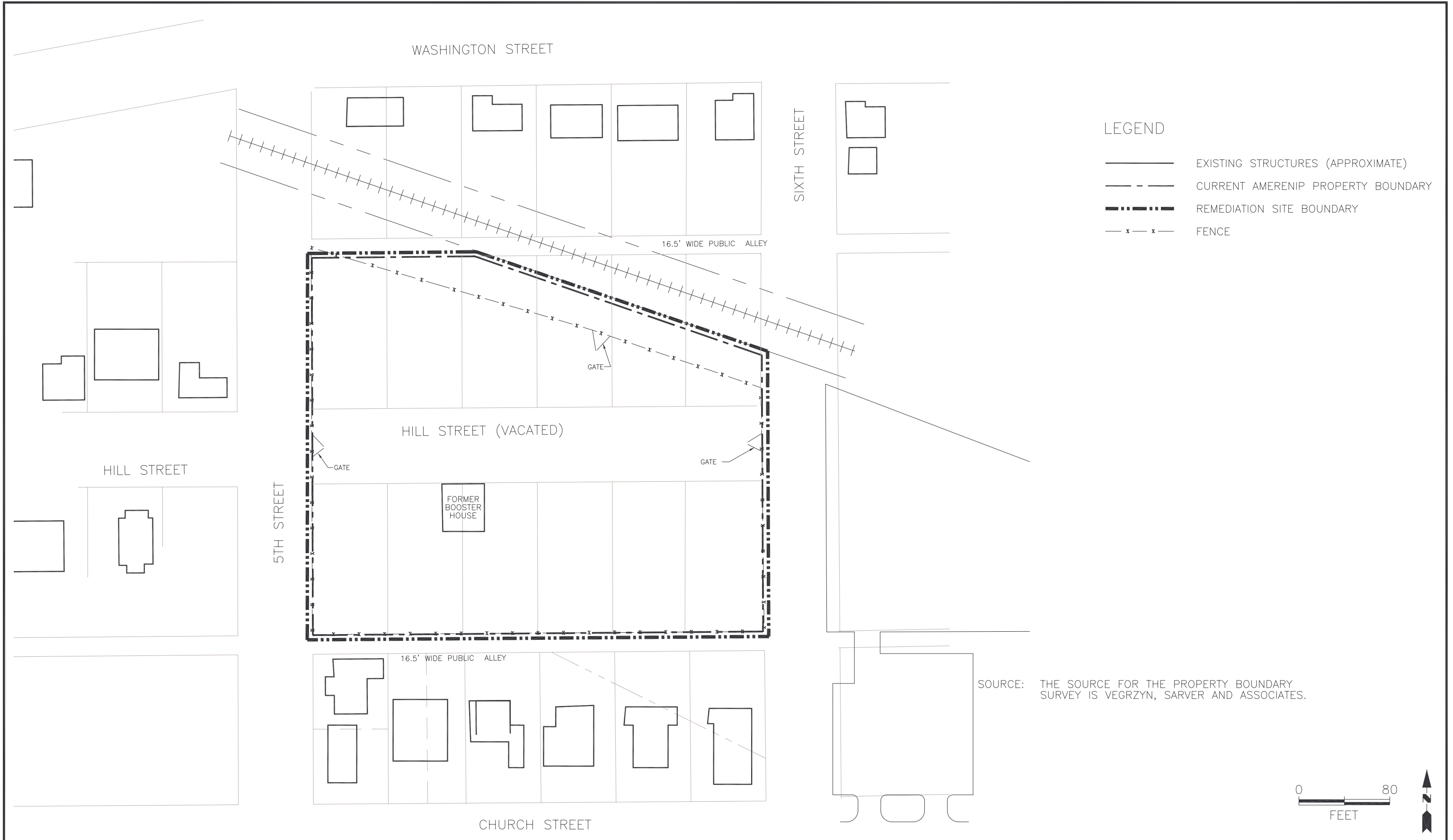


TITLE:  
**SITE LOCATION MAP**

DWN: TMM  
 DES.: SPB  
 CHKD: APPD:  
 DATE: 2/24/00  
 REV.: 0

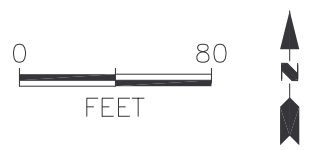
PROJECT NO.: 62403053  
**AMEREN IP  
 CHAMPAIGN, ILLINOIS**  
**FIGURE 1-1**





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

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



COL. J:\624\02647B-033

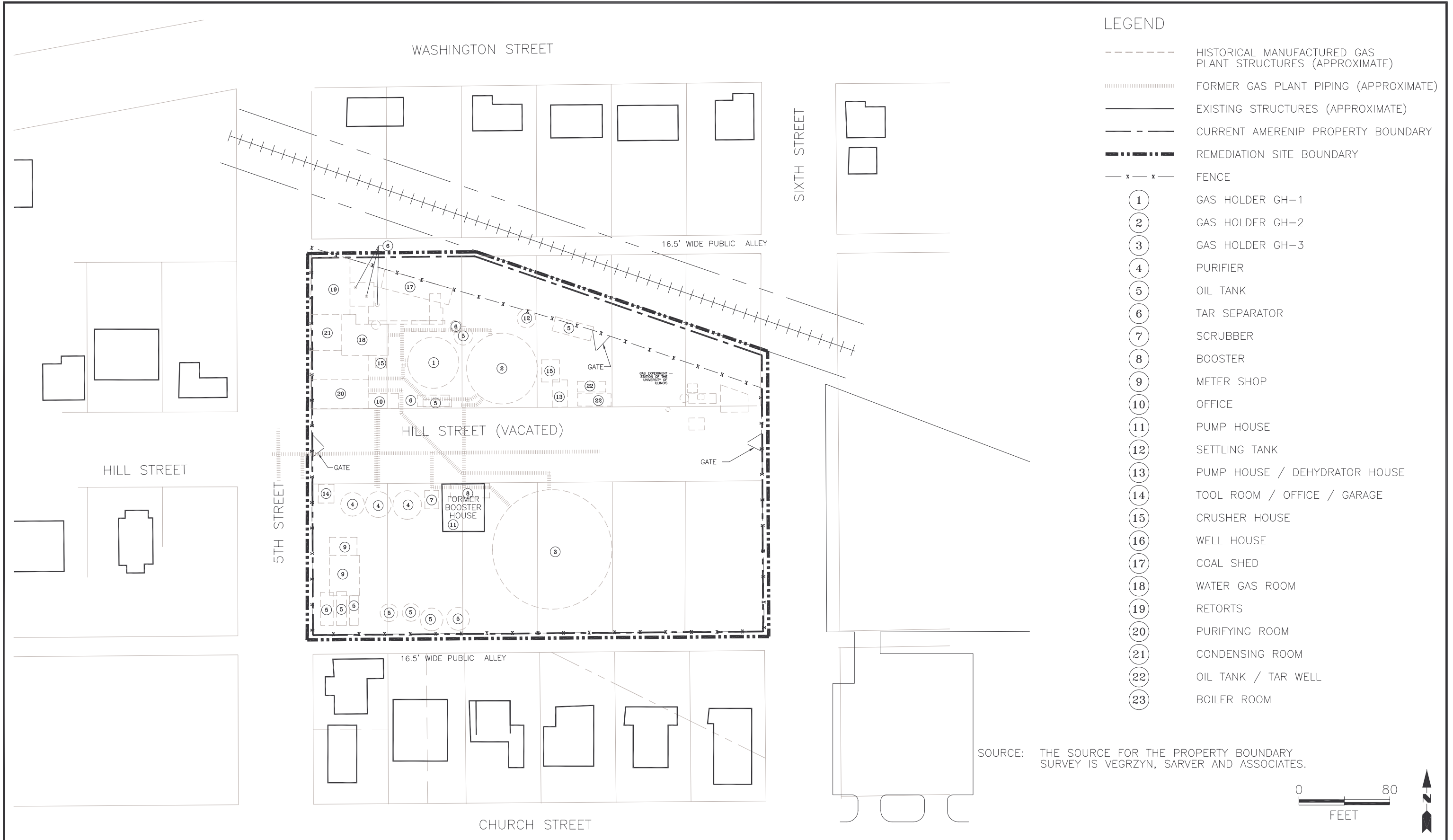


TITLE:  
SITE MAP

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 2/4/08	REV:

PROJECT NO: 62403053  
AMERENIP  
CHAMPAIGN, ILLINOIS  
  
FIGURE 1-2

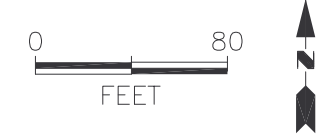




LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES (APPROXIMATE)
- ..... FORMER GAS PLANT PIPING (APPROXIMATE)
- EXISTING STRUCTURES (APPROXIMATE)
- - - - - CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- x - x - FENCE
- ① GAS HOLDER GH-1
- ② GAS HOLDER GH-2
- ③ GAS HOLDER GH-3
- ④ PURIFIER
- 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

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



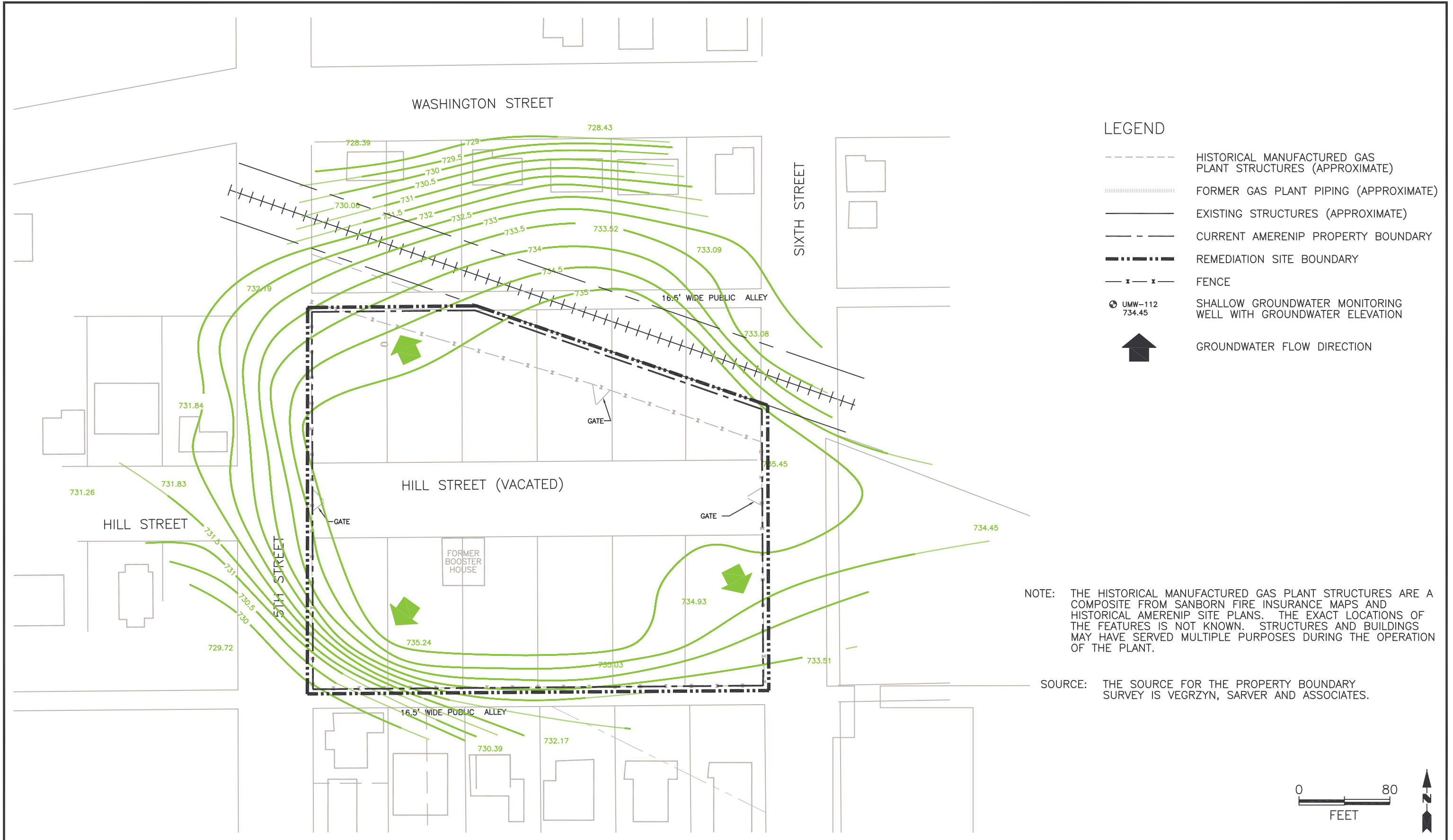
COL. J:\624\02647B-033A



TITLE:  
HISTORICAL MGP STRUCTURES

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 06/26/08	REV:

PROJECT NO: 62403053  
AMERENIP  
CHAMPAIGN, ILLINOIS  
  
FIGURE 2-1

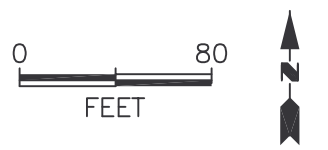


**LEGEND**

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES (APPROXIMATE)
- ..... FORMER GAS PLANT PIPING (APPROXIMATE)
- EXISTING STRUCTURES (APPROXIMATE)
- · — · — CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- x — x — FENCE
- ⊕ UMW-112  
734.45 SHALLOW GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION
- ▲ GROUNDWATER 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.



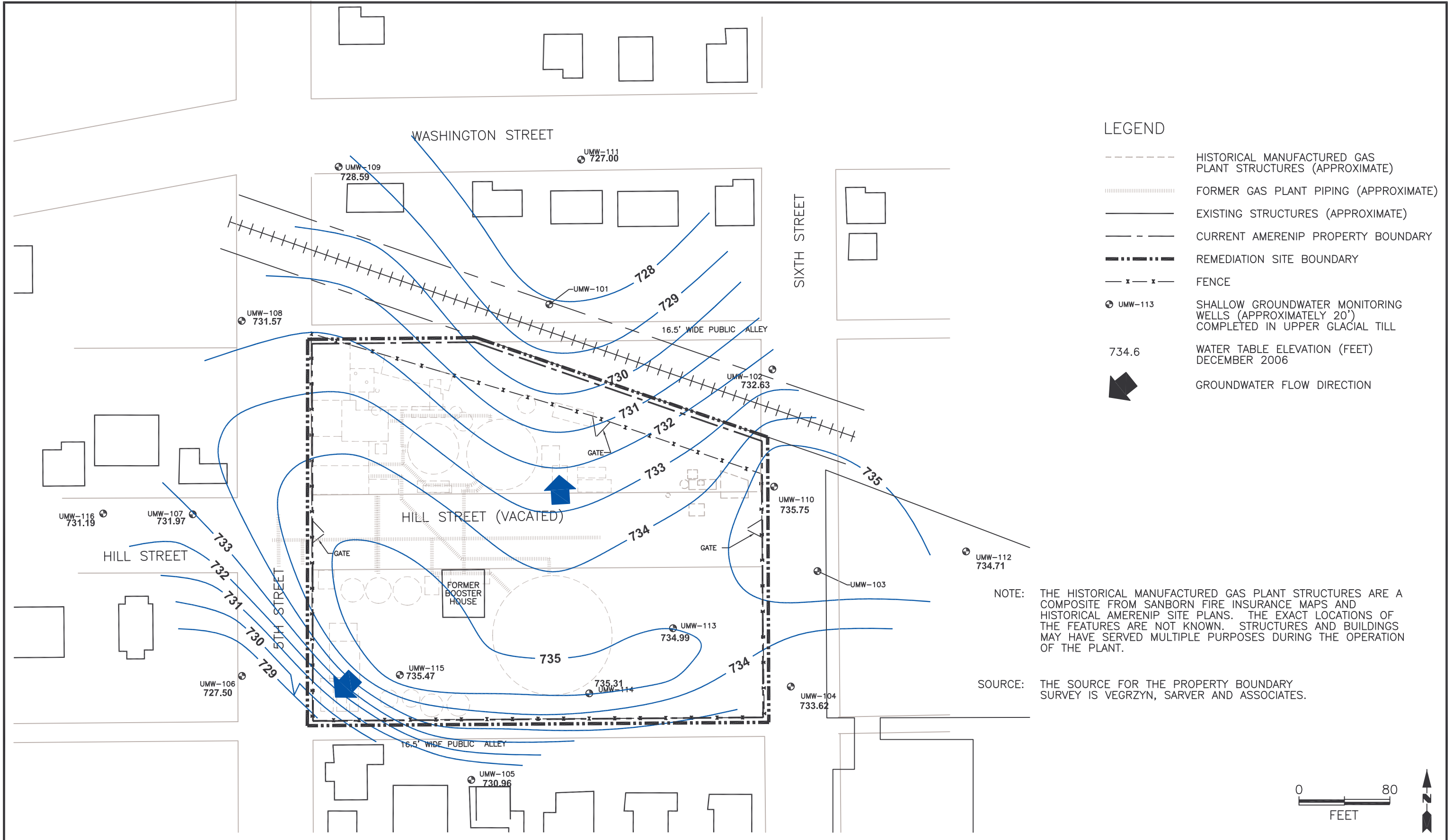
COL. J:\624\02647D-009



TITLE:  
SHALLOW POTENTIOMETRIC SURFACE MAP  
MAY 19, 2008

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 6/27/08	REV:

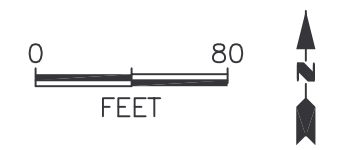
PROJECT NO: 62403053 AMERENIP CHAMPAIGN, ILLINOIS
FIGURE 2-2



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



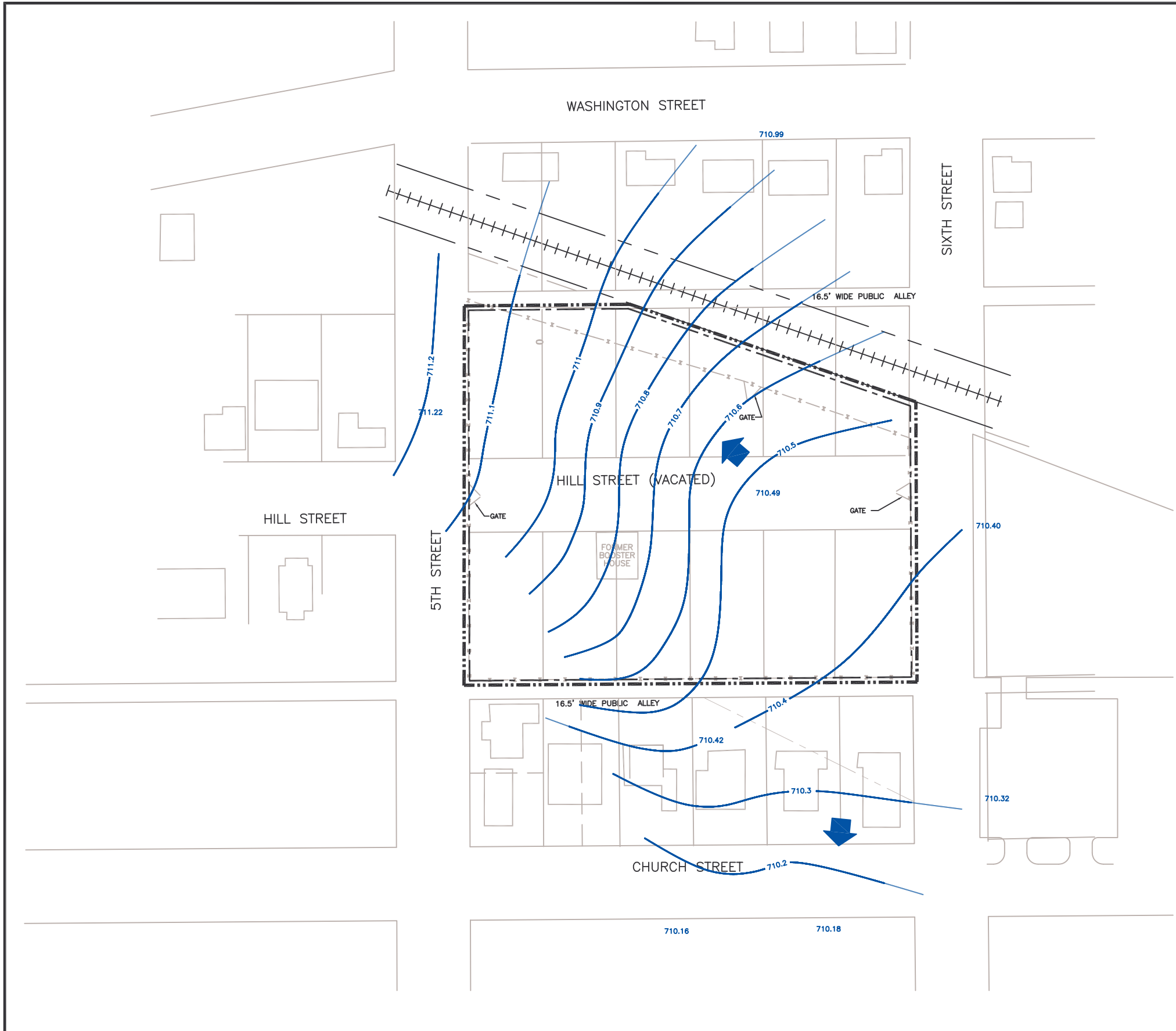
COL. J:\624\02647B-023A



TITLE:  
GROUNDWATER ELEVATION CONTOUR  
SHALLOW GROUNDWATER SYSTEM  
DECEMBER 2006

DWN:	TMM	DES:	MRC
CHKD:		APPD:	
DATE:	06/26/08	REV:	

PROJECT NO: 62403053  
AMERENIP  
CHAMPAIGN, ILLINOIS  
  
FIGURE 2-3

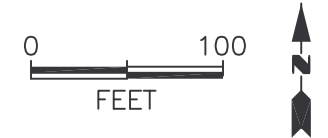


**LEGEND**

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES (APPROXIMATE)
- ===== FORMER GAS PLANT PIPING (APPROXIMATE)
- EXISTING STRUCTURES (APPROXIMATE)
- - - - - CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- x - x - x - FENCE
- ⊕ UMW-300  
710.99 INTERMEDIATE GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION
- ▲ GROUNDWATER 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 ARE 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.

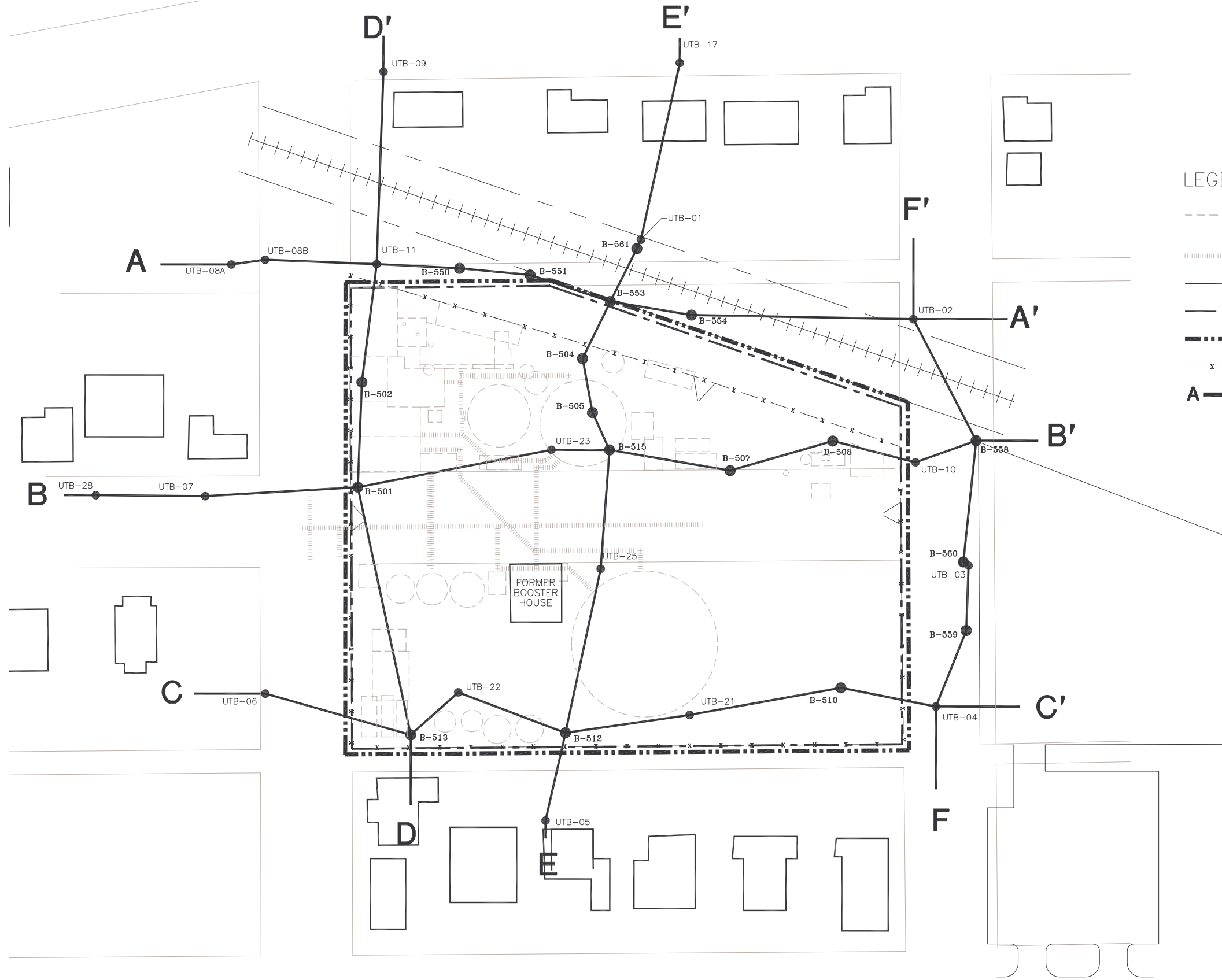


COL. J:\624\02647D-011



TITLE:  
INTERMEDIATE DEPTH POTENTIOMETRIC SURFACE MAP  
JULY 10, 2008

DWN: TMM	DES: MRC	PROJECT NO: 62403053 AMERENIP CHAMPAIGN, ILLINOIS
CHKD:	APPD:	
DATE: 7/24/08	REV:	FIGURE 2-4



- LEGEND
- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES (APPROXIMATE)
  - ..... FORMER GAS PLANT PIPING (APPROXIMATE)
  - EXISTING STRUCTURES (APPROXIMATE)
  - - - - CURRENT AMERENIP PROPERTY BOUNDARY
  - REMEDIATION SITE BOUNDARY
  - x - x - FENCE
  - A — A'** CROSS SECTION



COL. J:\624\02647B-004



TITLE:  
SITE CROSS SECTION TRANSECT LOCATIONS

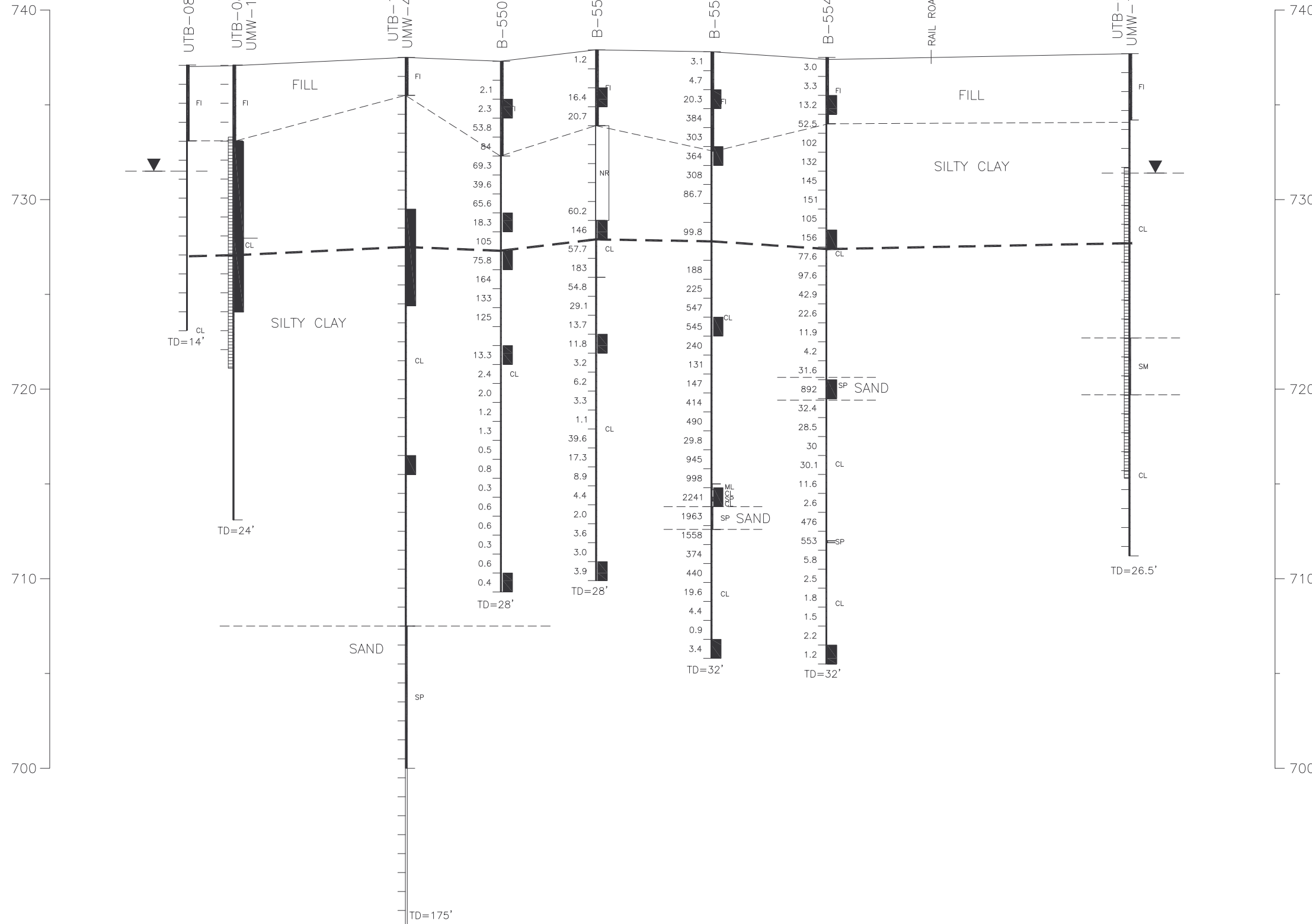
DWN: TMM  
CHKD:  
DATE: 06/26/08

DES: JG  
APPD:  
REV:

PROJECT NO: 62403053  
AMERENIP  
CHAMPAIGN, ILLINOIS  
  
FIGURE 2-5

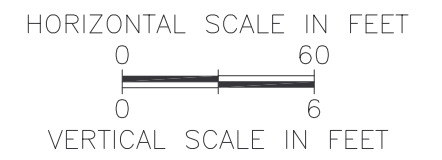
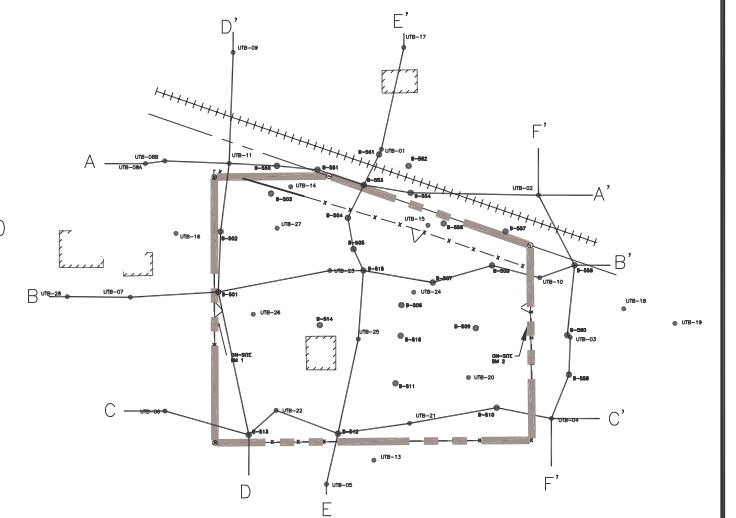


WEST  
A



EAST  
A'  
ELEVATION

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



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

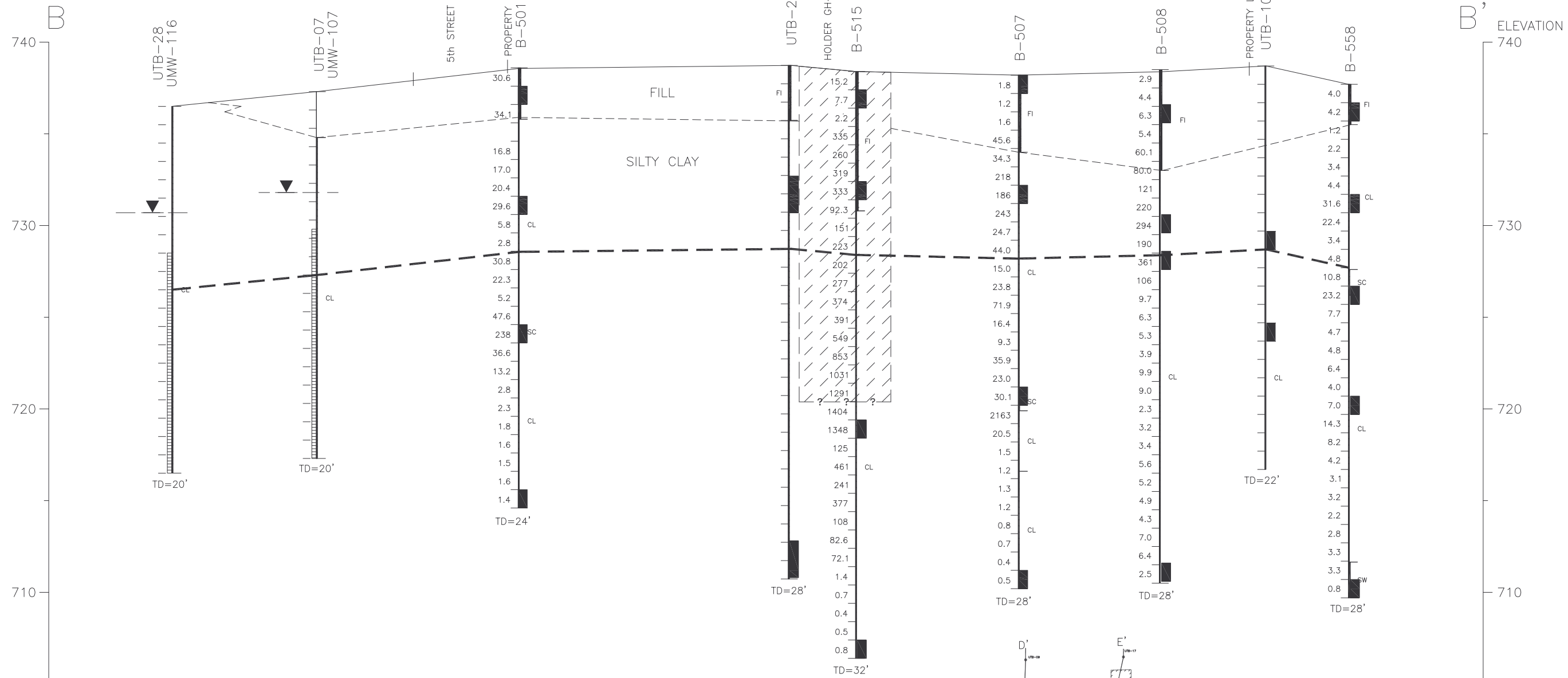


TITLE:  
WEST-EAST CROSS SECTION A-A'






DWN:	TMM	DES:	PTS	PROJECT NO:	62403053
CHKD:	JG	APPD:		AMEREN IP CHAMPAIGN, ILLINOIS	
DATE:	06/27/08	REV:	0	FIGURE 2-6	

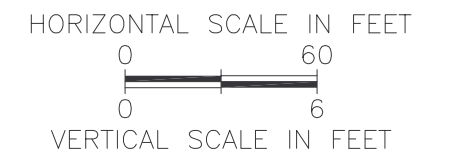
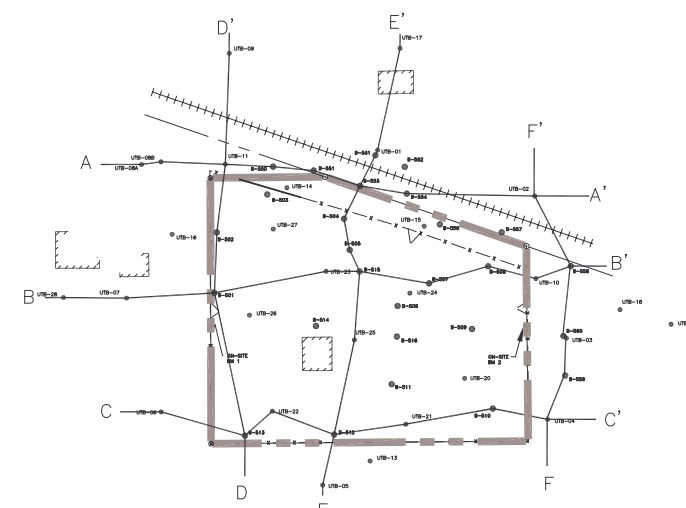
WEST

EAST



LEGEND

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



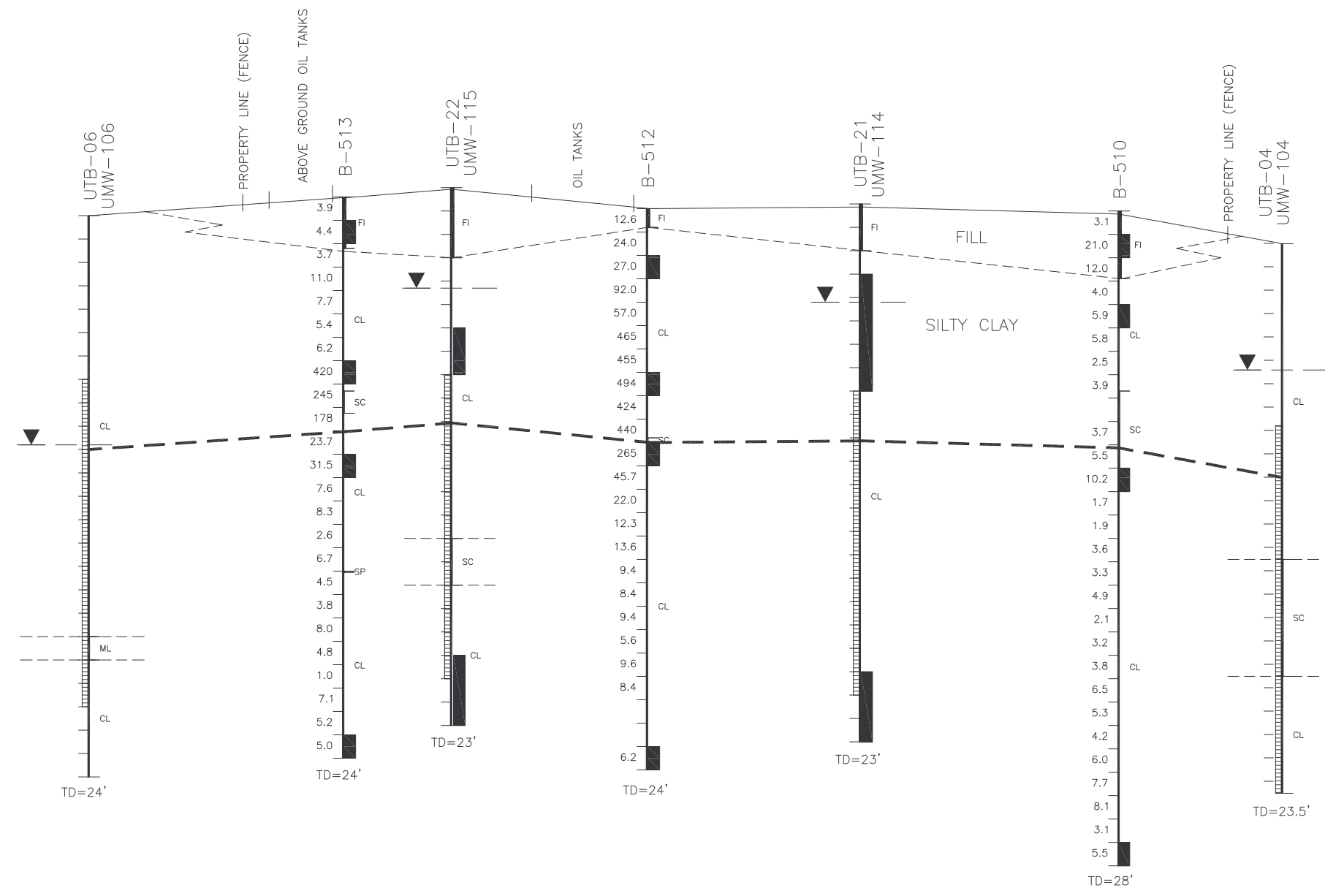
TITLE: WEST-EAST CROSS SECTION B-B'

DWN: TMM	DES: PTS
CHKD: JG	APPD:
DATE: 06/27/08	REV: 0

PROJECT NO: 62403053  
 AMERENIP  
 CHAMPAIGN, ILLINOIS  
 FIGURE 2-7

WEST  
C

740  
730  
720  
710  
700

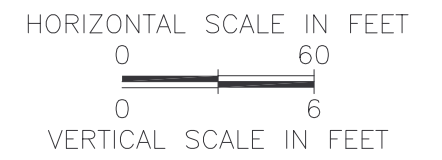
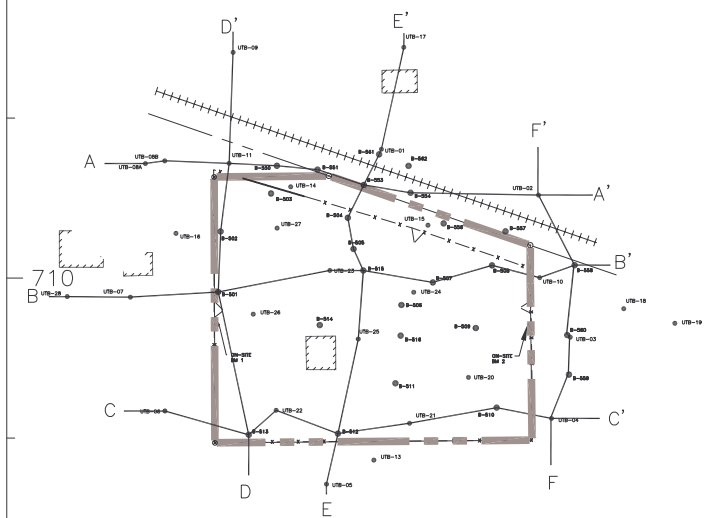


EAST  
C'

ELEVATION  
740  
730  
720  
710  
700

LEGEND

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



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



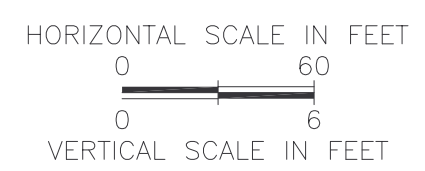
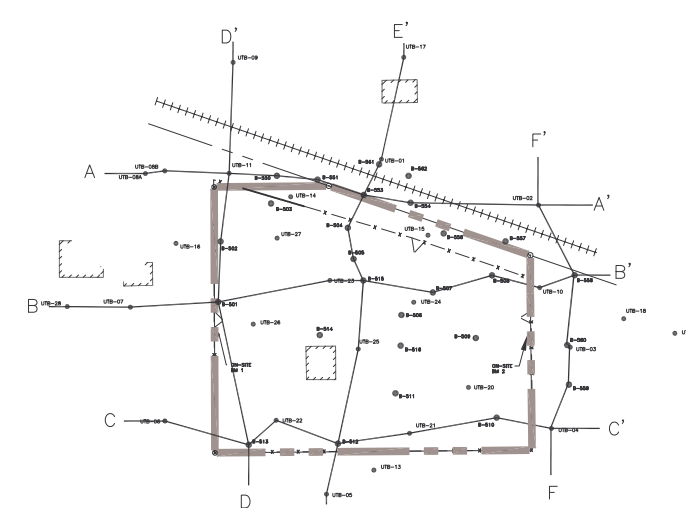
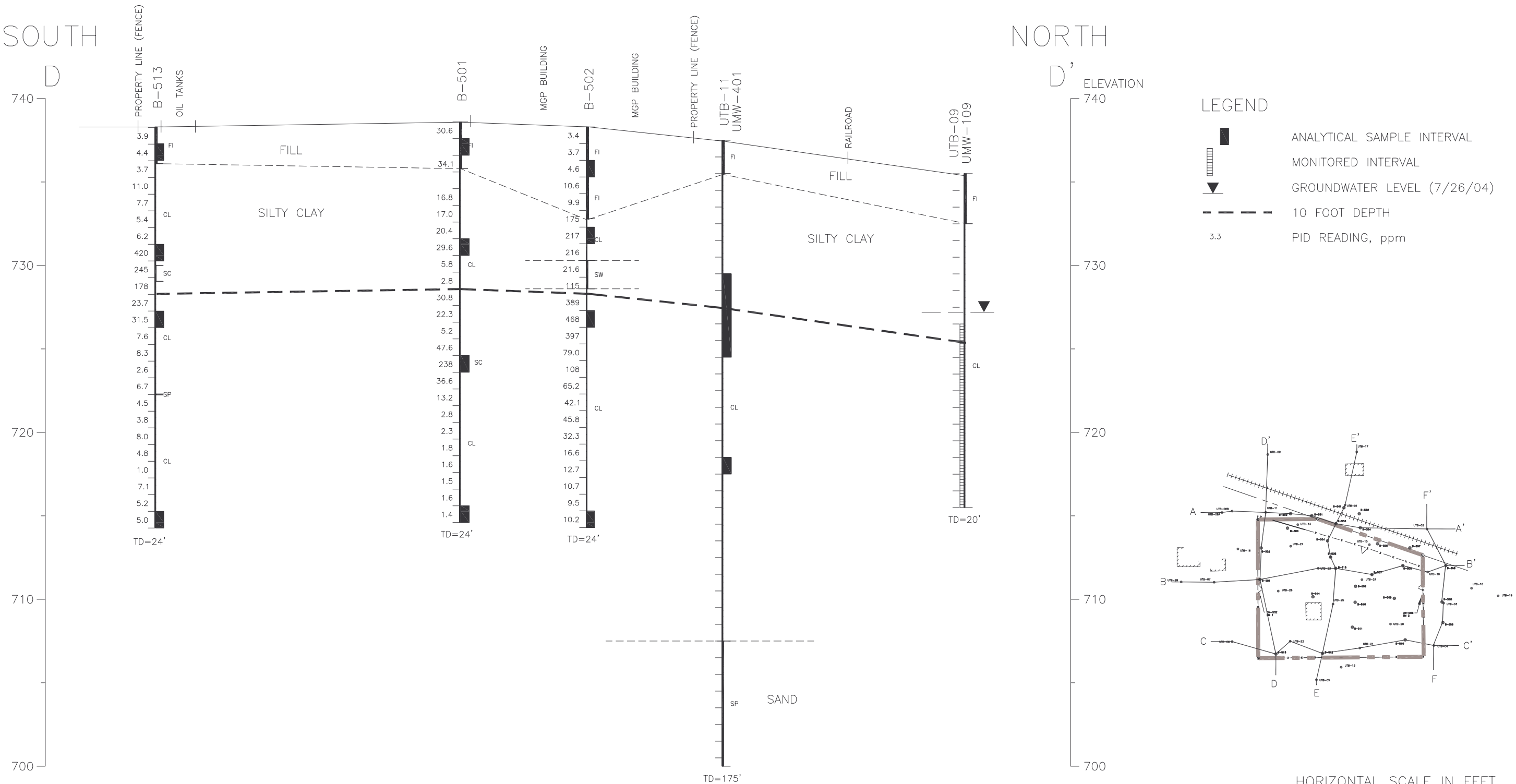
TITLE:  
WEST-EAST CROSS SECTION C-C'

DWN: TMM	DES: PTS	PROJECT NO: 62403053 AMERENIP CHAMPAIGN, ILLINOIS
CHKD: JG	APPD:	
DATE: 06/27/08	REV: 0	FIGURE 2-8



SOUTH

NORTH



TITLE: SOUTH-NORTH CROSS SECTION D-D'

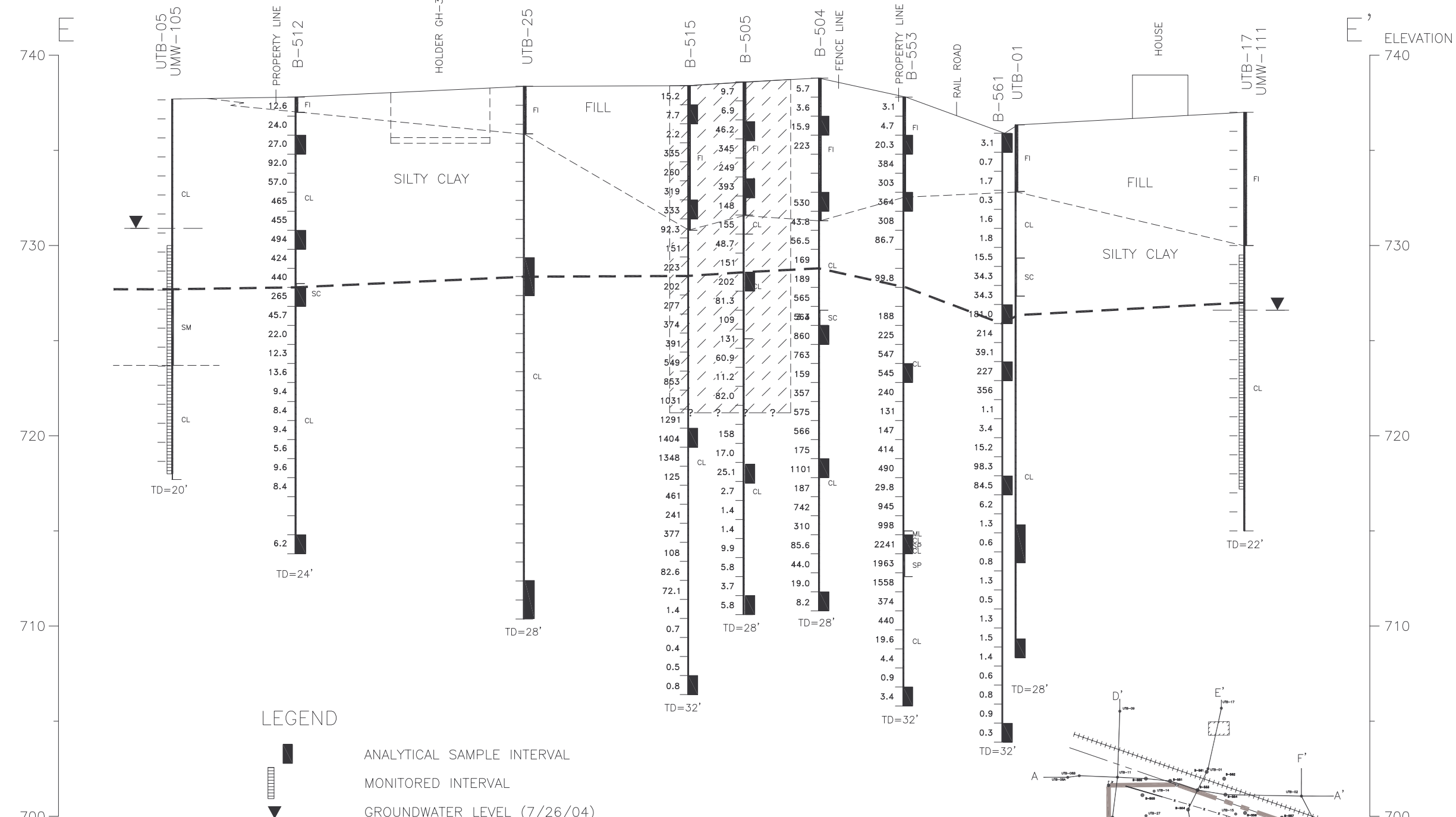


DWN: TMM	DES: PTS	PROJECT NO: 62403053 AMERENIP CHAMPAIGN, ILLINOIS
CHKD: JG	APPD:	
DATE: 06/27/08	REV: 0	

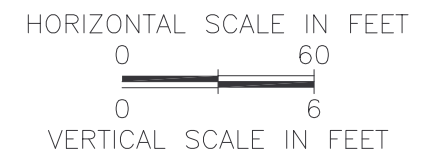
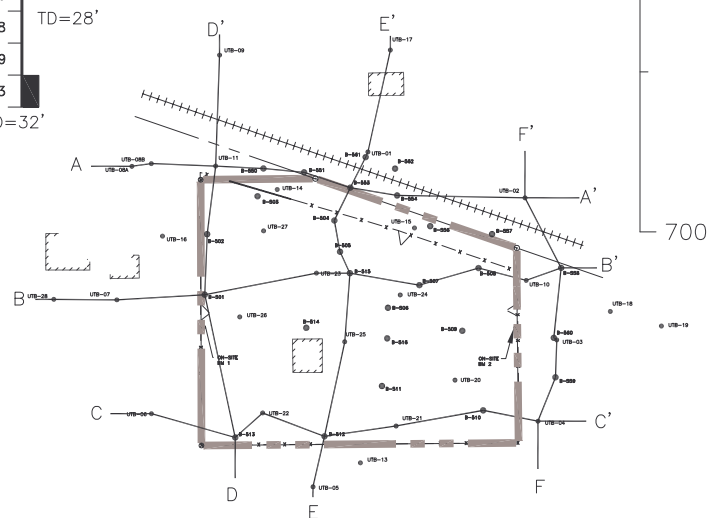
FIGURE 2-9

SOUTH

NORTH



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



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



TITLE: SOUTH-NORTH CROSS SECTION E-E'

DWN: TMM	DES: PTS	PROJECT NO: 62403053 AMERENIP CHAMPAIGN, ILLINOIS
CHKD: JG	APPD:	
DATE: 06/27/08	REV: 0	FIGURE 2-10



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES (APPROXIMATE)
- ..... FORMER GAS PLANT PIPING (APPROXIMATE)
- EXISTING STRUCTURES (APPROXIMATE)
- - - CURRENT AMERENIP PROPERTY BOUNDARY
- ■ — ■ — REMEDIATION SITE BOUNDARY
- x - x - 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 (ACTIVELY MONITORED)
- ⊕ UMW-401 DEEP GROUNDWATER MONITORING WELLS (APPROXIMATELY 150') COMPLETED IN GLASFORD FORMATION
- ⊕ UMW-401 WELLS THAT HAVE BEEN ABANDONED
- ▲ UMW-118 NEW WELL LOCATIONS (ACTIVELY MONITORED)
- B-800 NOTE: NEW BORING LOCATION

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 ARE NOT KNOWN. STRUCTURES AND BUILDINGS MAY HAVE SERVED MULTIPLE PURPOSES DURING THE OPERATION OF THE PLANT.

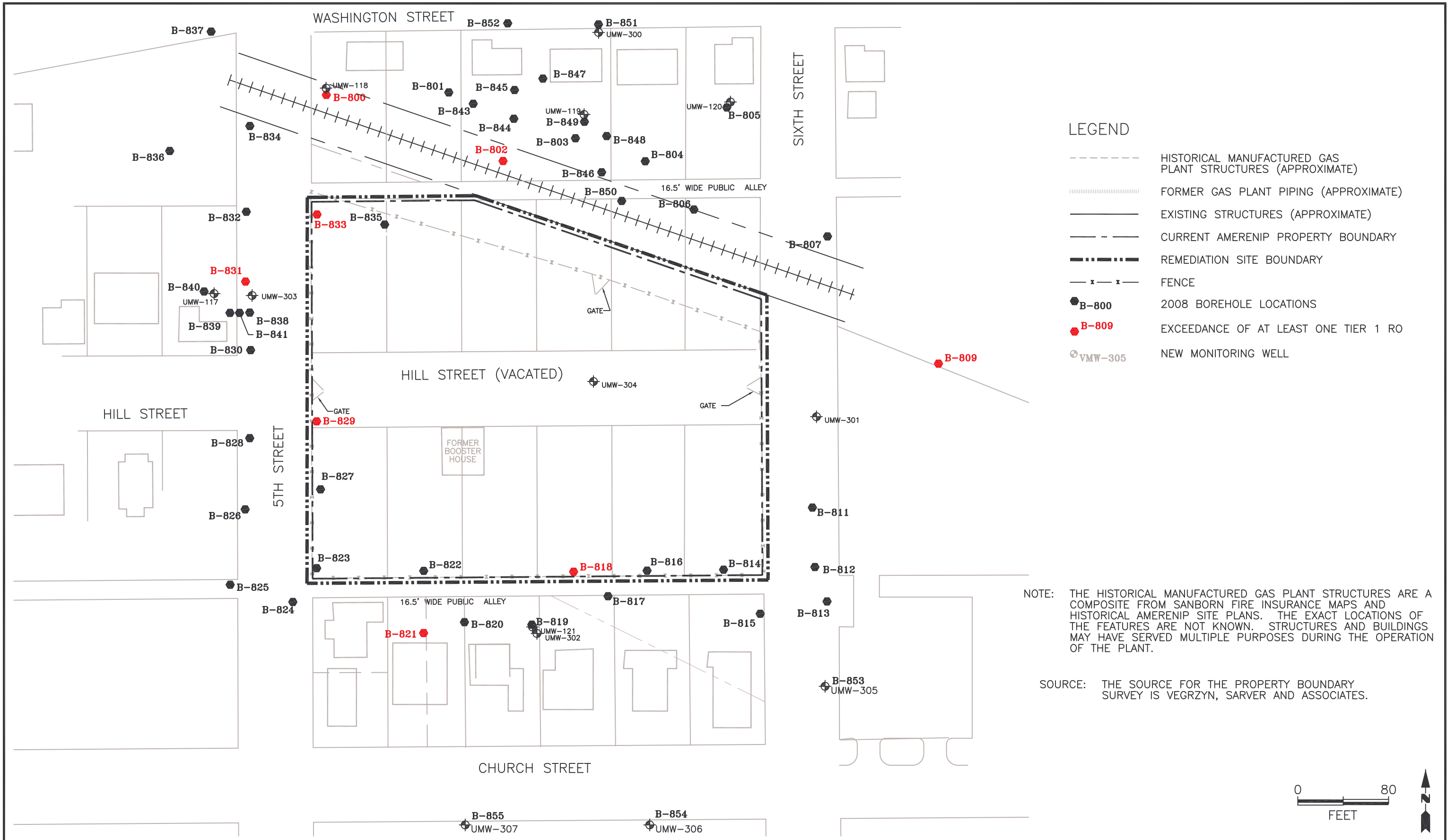
SOURCE: THE SOURCE FOR THE PROPERTY BOUNDARY SURVEY IS VEGRYN, SARVER AND ASSOCIATES.



COL. J:\624\02647B-038



TITLE: MONITORING WELL AND BORING LOCATIONS		DWN: TMM	DES: MRC	PROJECT NO: 62403053
		CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS
		DATE: 5/14/08	REV:	FIGURE 3-1

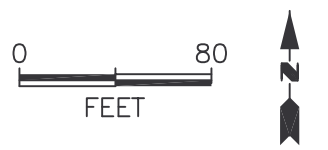


LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES (APPROXIMATE)
- ..... FORMER GAS PLANT PIPING (APPROXIMATE)
- \_\_\_\_\_ EXISTING STRUCTURES (APPROXIMATE)
- - - - - CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- x - x - FENCE
- B-800 2008 BOREHOLE LOCATIONS
- B-809 EXCEEDANCE OF AT LEAST ONE TIER 1 RO
- ⊕ UMW-305 NEW MONITORING WELL

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 ARE 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.

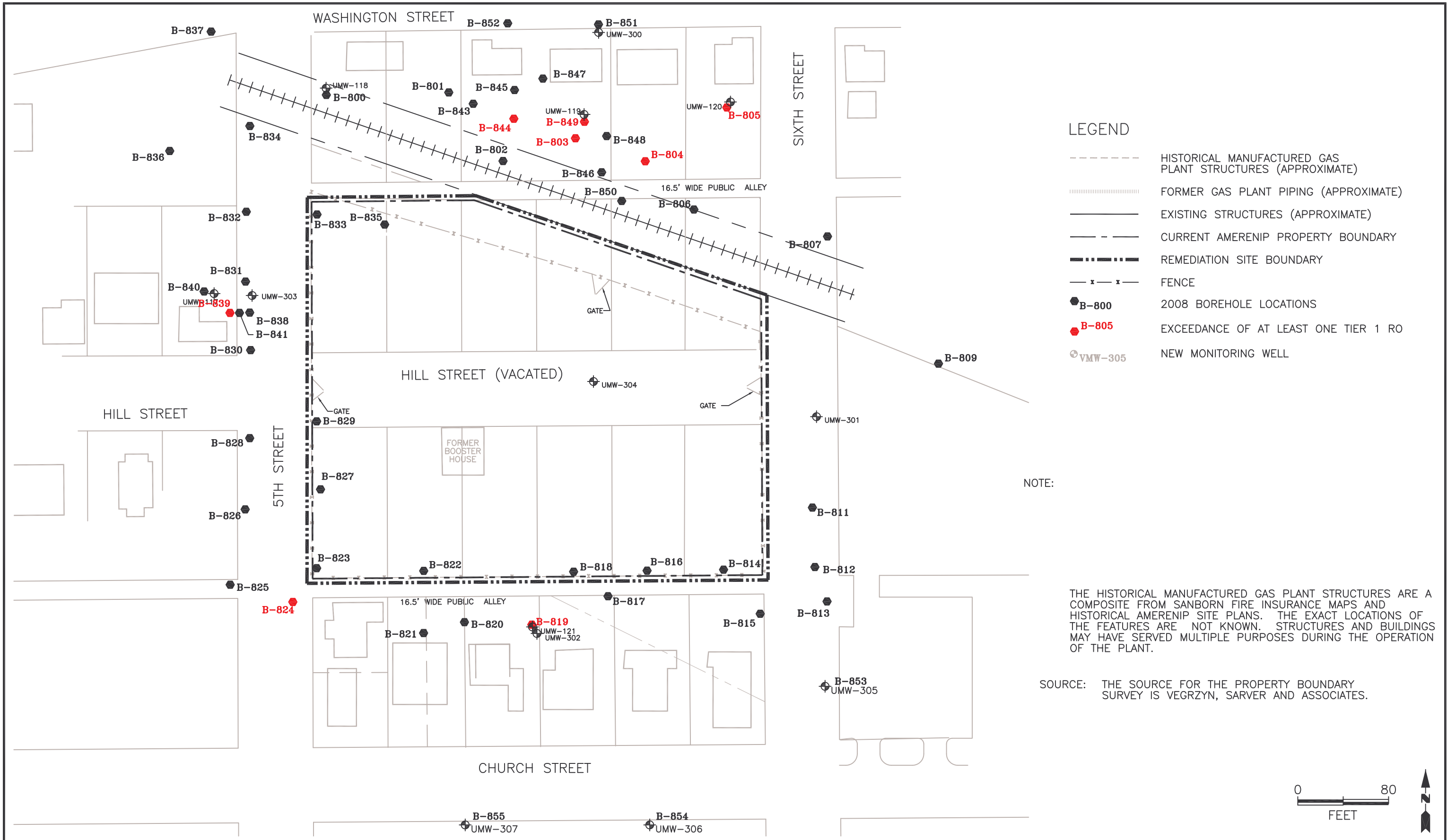


COL. J:\624\02647D-003



TITLE: TIER 1 EXCEEDANCES – 0.0 TO 3.0 FOOT DEPTH INTERVAL BTEX AND PAHs	
--	--

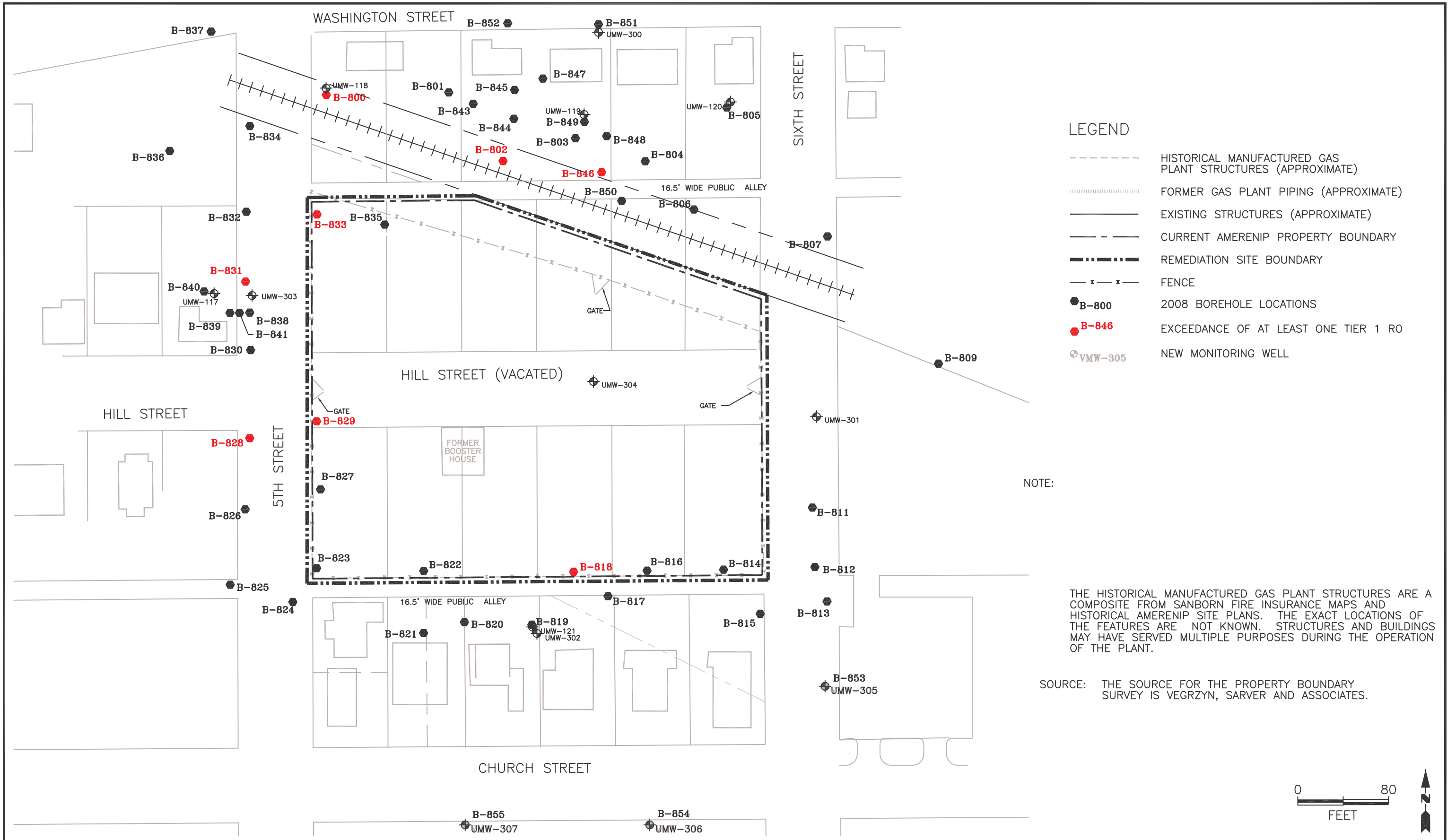
DWN: TMM	DES: MRC	PROJECT NO: 62403053 AMERENIP CHAMPAIGN, ILLINOIS
CHKD:	APPD:	
DATE: 06/26/08	REV:	FIGURE 6-1



COL. J:\624\02647D-004



TITLE: TIER 1 EXCEEDANCES – 0.0 TO 3.0 FOOT DEPTH INTERVAL METALS AND CYANIDE		DWN: TMM	DES: MRC	PROJECT NO: 62403053
		CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS
		DATE: 06/26/08	REV:	FIGURE 6-2



**LEGEND**

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES (APPROXIMATE)
- ..... FORMER GAS PLANT PIPING (APPROXIMATE)
- EXISTING STRUCTURES (APPROXIMATE)
- - - - - CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- x - x - FENCE
- B-800 2008 BOREHOLE LOCATIONS
- B-846 EXCEEDANCE OF AT LEAST ONE TIER 1 RO
- ⊕ VMW-305 NEW MONITORING WELL

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 ARE 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. J:\624\02647D-005

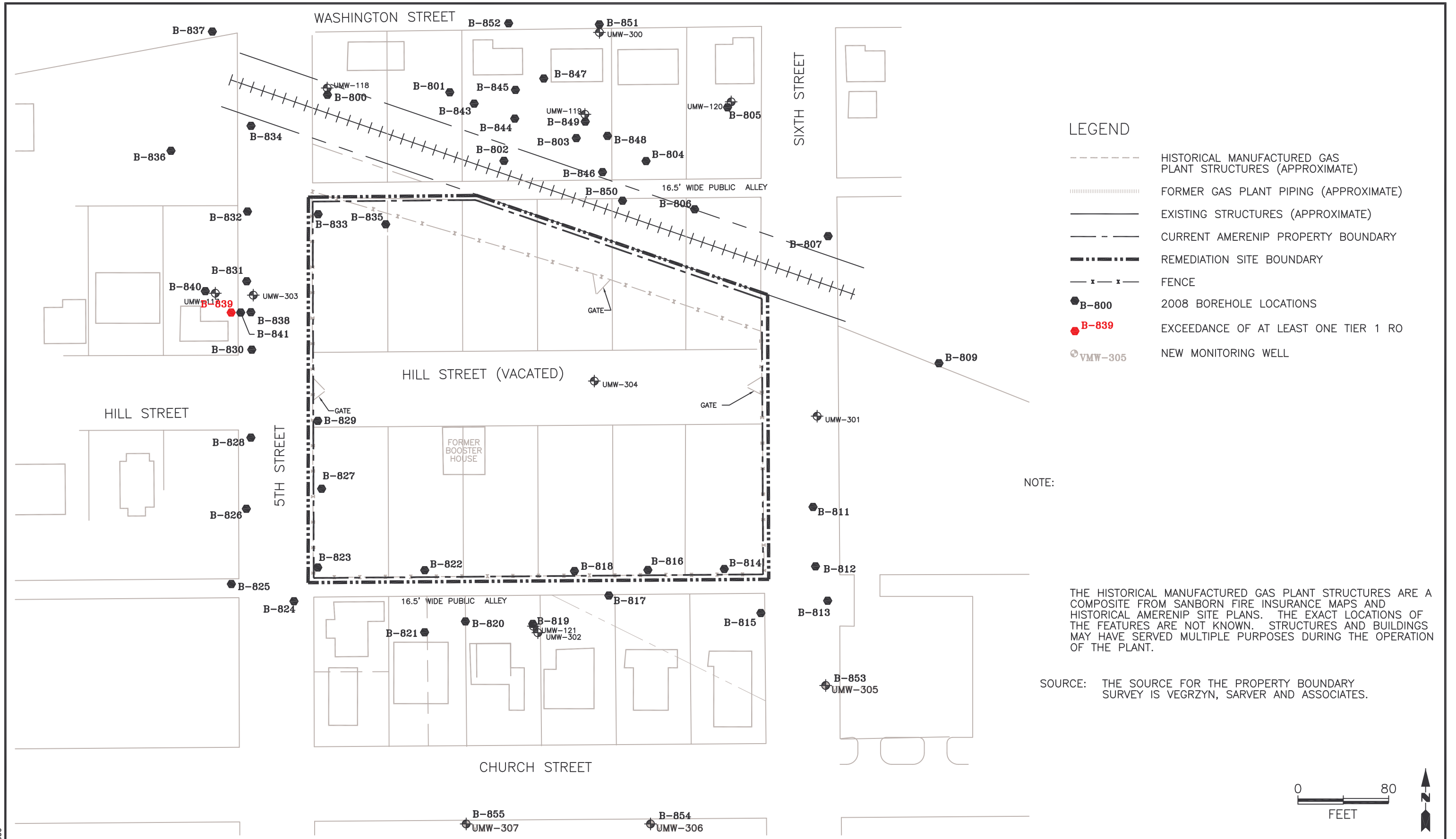


TITLE:  
TIER 1 EXCEEDANCES – 3.0 TO 10.0 FOOT DEPTH INTERVAL  
BTEX AND PAHs

DWN:	TMM	DES:	MRC
CHKD:		APPD:	
DATE:	06/26/08	REV:	

PROJECT NO:	62403053
AMERENIP CHAMPAIGN, ILLINOIS	
FIGURE 6-3	





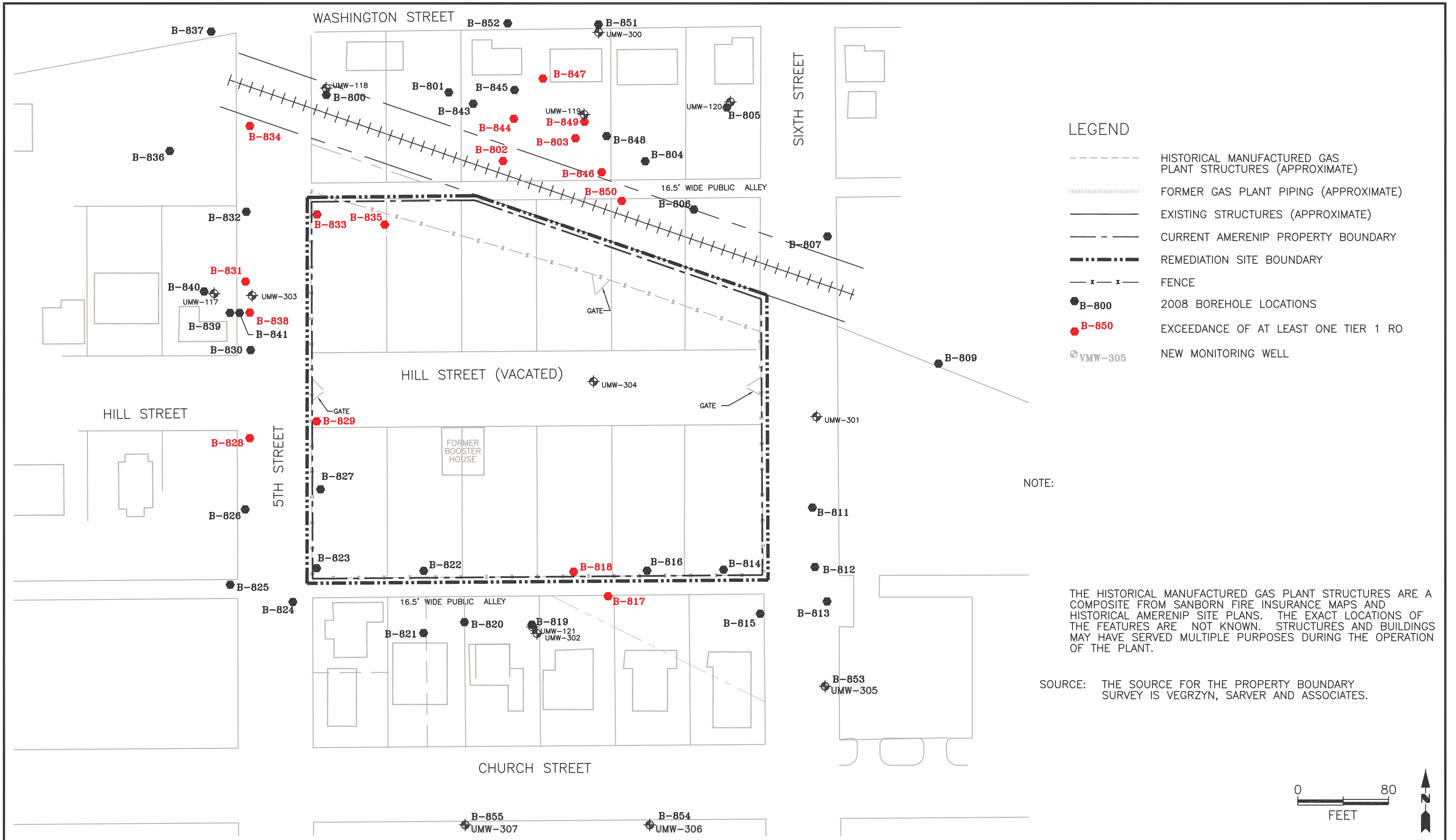
COL. J:\624\02647D-006



TITLE:  
TIER 1 EXCEEDANCES – 3.0 TO 10.0 FOOT DEPTH INTERVAL  
METALS AND CYANIDE

DWN: TMM	DES: MRC
CHKD:	APPD:
DATE: 06/26/08	REV:

PROJECT NO: 62403053 AMERENIP CHAMPAIGN, ILLINOIS
FIGURE 6-4



LEGEND

- HISTORICAL MANUFACTURED GAS PLANT STRUCTURES (APPROXIMATE)
- ..... FORMER GAS PLANT PIPING (APPROXIMATE)
- EXISTING STRUCTURES (APPROXIMATE)
- - - - - CURRENT AMERENIP PROPERTY BOUNDARY
- REMEDIATION SITE BOUNDARY
- x - x - FENCE
- B-800 2008 BOREHOLE LOCATIONS
- B-850 EXCEEDANCE OF AT LEAST ONE TIER 1 RO
- ⊕ UMW-305 NEW MONITORING WELL

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 ARE 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. J:\624\02647D-007



TITLE: TIER 1 EXCEEDANCES – GREATER THAN 10.0 FOOT DEPTH INTERVAL BTEX AND PAHs	
---	--

DWN: TMM	DES: MRC	PROJECT NO: 62403053
CHKD:	APPD:	AMERENIP CHAMPAIGN, ILLINOIS
DATE: 06/26/08	REV:	FIGURE 6-5



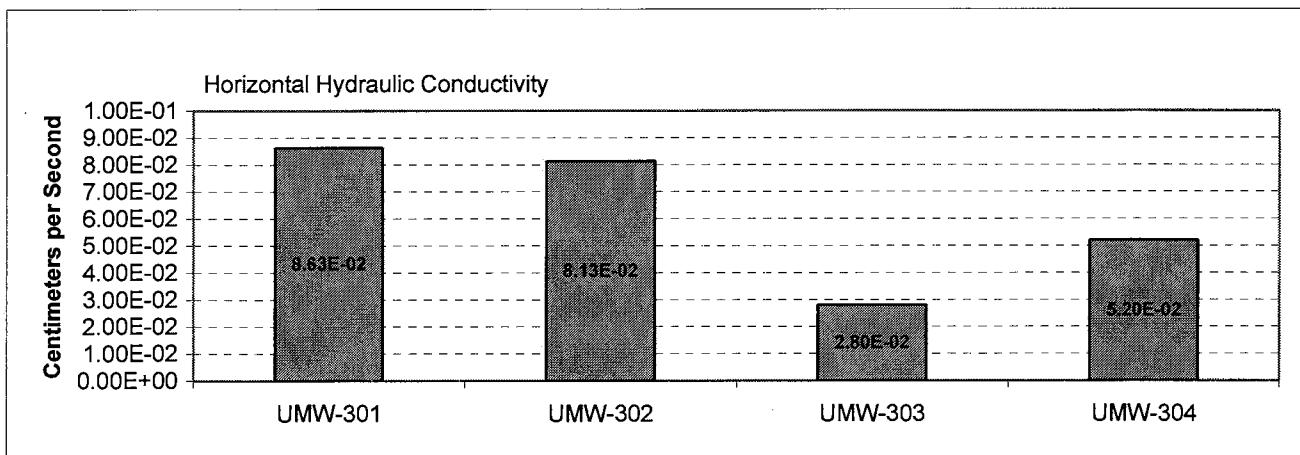
APPENDIX A

Hydraulic Conductivity Data Sheets

Hydraulic Conductivity Test Results for the Intermediate Sand Unit

Champaign FMGP Off-Site Investigation  
Champaign, Illinois

Monitoring Well	Field Test Methods	Data Analysis Method	Hydraulic Conductivity	
			cm/s	ft/day
UMW-301	PVC slug	Bouwer and Rice (1976)	8.63E-02	244.6
UMW-302	PVC slug	Bouwer and Rice (1976)	8.13E-02	230.5
UMW-303	PVC slug	Bouwer and Rice (1976)	2.80E-02	79.4
UMW-304	PVC slug	Bouwer and Rice (1976)	5.20E-02	147.4
<b>Geometric Mean Hydraulic Conductivity</b>			<b>4.85E-02</b>	<b>137.5</b>



301slugin1.csv

Advanced Calibration

Data	Block 0	Block 1	Cal Date	m2	m1	m0	b3	b2	b1	b0
	6/1/2007	10:40	1.00E-06	0	-2.40E-05	1.00326	-0.166016	8.80E-05	-3.71E-03	0.110421
	unknown		0	0	0	0	0	0	0	100

Field Calibration Data

Field Calibration Data	Pressure	Temperature	m	b	Cal Date
Sensor/SN	2549026		1	1	6/4/2007 14:58
Sensor Type	PT2X		0	0	unknown
Sensor Name	aquistar				
Session Name	301slugin1				
# Records	100				
Statistical Data					

Sensor Range	Minimum	Maximum	Mean	Variance	Std Deviation
Pressure(Ft H2O)	50 psig	19.161	21.234	19.316	0.1333
Temperature(degC)	-40 - +125 degC	15.1	15.1	0	0.03

Rec #	Date/Time	Pressure(Ft H2O)	Temperature(degC)	Displacement
1	10:57:02 AM	19.161	15.1	1.4511
2	10:57:03 AM	19.165	15	19.7829
3	10:57:04 AM	19.161	15	
4	10:57:05 AM	19.165	15	
5	10:57:06 AM	19.161	15	
6	10:57:07 AM	19.165	15	
7	10:57:08 AM	19.165	15	
8	10:57:09 AM	19.192	15	
9	10:57:10 AM	20.673	15.1	
10	10:57:11 AM	21.234	15.1	2.073
11	10:57:12 AM	21.136	15.1	1.975
12	10:57:13 AM	20.17	15.1	1.009
13	10:57:14 AM	20.135	15.1	0.974
14	10:57:15 AM	19.964	15.1	0.803
15	10:57:16 AM	19.897	15.1	0.736
16	10:57:17 AM	19.812	15.1	0.651
17	10:57:18 AM	19.741	15.1	0.58
18	10:57:19 AM	19.679	15.1	0.518
19	10:57:20 AM	19.621	15.1	0.46
20	10:57:21 AM	19.57	15.1	0.409
21	10:57:22 AM	19.527	15.1	0.366
22	10:57:23 AM	19.488	15.1	0.327

23	10:57:24 AM	13	19.453	15.1	0.292
24	10:57:25 AM	14	19.426	15.1	0.265
25	10:57:26 AM	15	19.399	15.1	0.238
26	10:57:27 AM	16	19.371	15.1	0.21
27	10:57:28 AM	17	19.348	15.1	0.187
28	10:57:29 AM	18	19.332	15.1	0.171
29	10:57:30 AM	19	19.313	15.1	0.152
30	10:57:31 AM	20	19.297	15.1	0.136
31	10:57:32 AM	21	19.286	15.1	
32	10:57:33 AM	22	19.274	15.1	
33	10:57:34 AM	23	19.262	15.1	
34	10:57:35 AM	24	19.251	15.1	
35	10:57:36 AM	25	19.243	15.1	
36	10:57:37 AM	26	19.235	15.1	
37	10:57:38 AM	27	19.227	15.1	
38	10:57:39 AM	28	19.223	15.1	
39	10:57:40 AM	29	19.215	15.1	
40	10:57:41 AM	30	19.211	15.1	
41	10:57:42 AM	31	19.204	15.1	
42	10:57:43 AM	32	19.204	15.1	
43	10:57:44 AM	33	19.2	15.1	
44	10:57:45 AM	34	19.196	15.1	
45	10:57:46 AM	35	19.192	15.1	
46	10:57:47 AM	36	19.188	15.1	
47	10:57:48 AM	37	19.188	15.1	
48	10:57:49 AM	38	19.184	15.1	
49	10:57:50 AM	39	19.184	15.1	
50	10:57:51 AM	40	19.18	15.1	
51	10:57:52 AM	41	19.18	15.1	
52	10:57:53 AM	42	19.176	15.1	
53	10:57:54 AM	43	19.176	15.1	
54	10:57:55 AM	44	19.176	15.1	
55	10:57:56 AM	45	19.172	15.1	
56	10:57:57 AM	46	19.172	15.1	
57	10:57:58 AM	47	19.172	15.1	
58	10:57:59 AM	48	19.172	15.1	
59	10:58:00 AM	49	19.172	15.1	
60	10:58:01 AM	50	19.169	15.1	
61	10:58:02 AM	51	19.169	15.1	
62	10:58:03 AM	52	19.169	15.1	
63	10:58:04 AM	53	19.169	15.1	

64	10:58:05 AM	54	19.169	15.1
65	10:58:06 AM	55	19.169	15.1
66	10:58:07 AM	56	19.169	15.1
67	10:58:08 AM	57	19.169	15.1
68	10:58:09 AM	58	19.165	15.1
69	10:58:10 AM	59	19.165	15.1
70	10:58:11 AM	60	19.169	15.1
71	10:58:12 AM	61	19.165	15.1
72	10:58:13 AM	62	19.165	15.1
73	10:58:14 AM	63	19.165	15.1
74	10:58:15 AM	64	19.165	15.1
75	10:58:16 AM	65	19.165	15.1
76	10:58:17 AM	66	19.165	15.1
77	10:58:18 AM	67	19.165	15.1
78	10:58:19 AM	68	19.165	15.1
79	10:58:20 AM	69	19.165	15.1
80	10:58:21 AM	70	19.165	15.1
81	10:58:22 AM	71	19.165	15.1
82	10:58:23 AM	72	19.165	15.1
83	10:58:24 AM	73	19.165	15.1
84	10:58:25 AM	74	19.165	15.1
85	10:58:26 AM	75	19.165	15.1
86	10:58:27 AM	76	19.165	15.1
87	10:58:28 AM	77	19.165	15.1
88	10:58:29 AM	78	19.165	15.1
89	10:58:30 AM	79	19.165	15.1
90	10:58:31 AM	80	19.165	15.1
91	10:58:32 AM	81	19.165	15.1
92	10:58:33 AM	82	19.165	15.1
93	10:58:34 AM	83	19.161	15.1
94	10:58:35 AM	84	19.161	15.1
95	10:58:36 AM	85	19.161	15.1
96	10:58:37 AM	86	19.165	15.1
97	10:58:38 AM	87	19.165	15.1
98	10:58:39 AM	88	19.165	15.1
99	10:58:40 AM	89	19.165	15.1
100	10:58:41 AM	90	19.161	15.1

301slugin2.csv

Advanced Calibration

Data

Block	Cal Date	m2	m1	m0	b3	b2	b1	b0
Block 0	6/1/2007 10:40	1.00E-06	-2.40E-05	1.00326	-0.166016	8.80E-05	-3.71E-03	0.110421
Block 1	unknown	0	0	0	0	0	0	100

Field Calibration Data

Pressure	m	b	Cal Date
Temperature	1	1	6/4/2007 14:58
	1	0	unknown

SensorSN 2549026  
 Sensor Type PT2X  
 Sensor Name aquistar  
 Session Name 301slugin2  
 # Records 100

Statistical Data

Sensor Range Pressure(Ft H2C Temperature(degC)  
 -40 - +125 degC

Minimum 19.138 14.9  
 Maximum 20.879 15.1  
 Mean 19.229 15  
 Variance 0.0661 0.01  
 Std Deviation 0.2572 0.07

Date/Time Pressure(Ft H2C Temperature(degC)

Rec #	Date/Time	Pressure(Ft H2C	Temperature(degC)
1	11:01:41 AM	19.161	14.9
2	11:01:42 AM	19.161	14.9
3	11:01:43 AM	19.161	14.9
4	11:01:44 AM	19.161	14.9
5	11:01:45 AM	19.165	14.9
6	11:01:46 AM	19.165	14.9
7	11:01:47 AM	19.177	14.9
8	11:01:48 AM	20.56	14.9
9	11:01:49 AM	20.879	14.9
10	11:01:50 AM	20.416	14.9
11	11:01:51 AM	19.563	14.9
12	11:01:52 AM	19.582	14.9
13	11:01:53 AM	19.469	14.9
14	11:01:54 AM	19.403	14.9

1.718 1.2026  
 1.255 19.6764  
 0.402  
 0.421  
 0.308  
 0.242

15	11:01:55 AM	6	19.348	14.9	0.187
16	11:01:56 AM	7	19.309	14.9	0.148
17	11:01:57 AM	8	19.278	14.9	0.117
18	11:01:58 AM	9	19.255	14.9	0.094
19	11:01:59 AM	10	19.235	14.9	0.074
20	11:02:00 AM	11	19.224	14.9	0.063
21	11:02:01 AM	12	19.212	14.9	0.051
22	11:02:02 AM	13	19.204	14.9	0.043
23	11:02:03 AM	14	19.196	14.9	0.035
24	11:02:04 AM	15	19.189	14.9	0.028
25	11:02:05 AM	16	19.185	14.9	0.024
26	11:02:06 AM		19.184	15	
27	11:02:07 AM		19.177	14.9	
28	11:02:08 AM		19.177	15	
29	11:02:09 AM		19.173	15	
30	11:02:10 AM		19.173	14.9	
31	11:02:11 AM		19.169	15	
32	11:02:12 AM		19.169	15	
33	11:02:13 AM		19.169	15	
34	11:02:14 AM		19.169	15	
35	11:02:15 AM		19.169	15	
36	11:02:16 AM		19.169	15	
37	11:02:17 AM		19.165	15	
38	11:02:18 AM		19.165	15	
39	11:02:19 AM		19.165	15	
40	11:02:20 AM		19.165	15	
41	11:02:21 AM		19.165	15	
42	11:02:22 AM		19.165	15	
43	11:02:23 AM		19.165	15	
44	11:02:24 AM		19.157	15	
45	11:02:25 AM		19.165	15	
46	11:02:26 AM		19.165	15	
47	11:02:27 AM		19.165	15	
48	11:02:28 AM		19.165	15	
49	11:02:29 AM		19.165	15	
50	11:02:30 AM		19.161	15	
51	11:02:31 AM		19.165	15	

52	11:02:32 AM	19.165	15
53	11:02:33 AM	19.165	15
54	11:02:34 AM	19.165	15
55	11:02:35 AM	19.165	15
56	11:02:36 AM	19.165	15
57	11:02:37 AM	19.161	15
58	11:02:38 AM	19.161	15
59	11:02:39 AM	19.165	15
60	11:02:40 AM	19.161	15
61	11:02:41 AM	19.165	15
62	11:02:42 AM	19.165	15
63	11:02:43 AM	19.165	15
64	11:02:44 AM	19.165	15
65	11:02:45 AM	19.161	15
66	11:02:46 AM	19.161	15
67	11:02:47 AM	19.161	15.1
68	11:02:48 AM	19.161	15.1
69	11:02:49 AM	19.161	15
70	11:02:50 AM	19.161	15
71	11:02:51 AM	19.161	15
72	11:02:52 AM	19.161	15
73	11:02:53 AM	19.138	15
74	11:02:54 AM	19.157	15.1
75	11:02:55 AM	19.161	15
76	11:02:56 AM	19.161	15.1
77	11:02:57 AM	19.161	15
78	11:02:58 AM	19.161	15.1
79	11:02:59 AM	19.161	15.1
80	11:03:00 AM	19.161	15.1
81	11:03:01 AM	19.161	15.1
82	11:03:02 AM	19.161	15.1
83	11:03:03 AM	19.161	15
84	11:03:04 AM	19.161	15.1
85	11:03:05 AM	19.161	15.1
86	11:03:06 AM	19.161	15.1
87	11:03:07 AM	19.153	15.1
88	11:03:08 AM	19.157	15.1



89	11:03:09 AM	19.161	15.1
90	11:03:10 AM	19.161	15.1
91	11:03:11 AM	19.161	15.1
92	11:03:12 AM	19.161	15.1
93	11:03:13 AM	19.161	15.1
94	11:03:14 AM	19.161	15.1
95	11:03:15 AM	19.161	15
96	11:03:16 AM	19.149	15.1
97	11:03:17 AM	19.161	15.1
98	11:03:18 AM	19.161	15.1
99	11:03:19 AM	19.161	15.1
100	11:03:20 AM	19.161	15.1

301slugout1.csv

Advanced

Calibration Data

Block	Cal Date	m2	m1	m0	b3	b2	b1	b0
Block 0	6/1/2007 10:40	1.00E-06	0	-2.40E-05	1.00326	-0.166016	8.80E-05	-3.71E-03
Block 1	unknown	0	0	0	0	0	0	0.110421

Field Calibration

Data

Pressure	m	b	Cal Date
Pressure	1	0	6/4/2007 14:58
Temperature	1	0	unknown

SensorsSN 2549026

Sensor Type PT2X

Sensor Name aquistar

Session Name 301slugout1

# Records 100

Statistical Data

Sensor Range	Pressure(Ft H2O)	Temperature(degC)
Minimum	50 psig	-40 - +125 degC
Maximum	17.988	14.9
Mean	19.165	15.1
Variance	19.124	15.1
Std Deviation	0.0247	0
	0.1573	0.05

Rec #

Rec #	Date/Time	Pressure(Ft H2O)	Temperature(degC)
1	10:59:17 AM	19.161	14.9
2	10:59:18 AM	19.161	14.9
3	10:59:19 AM	18.951	14.9
4	10:59:20 AM	18.471	15
5	10:59:21 AM	17.988	15
6	10:59:22 AM	18.433	15
7	10:59:23 AM	18.803	15
8	10:59:24 AM	18.97	15
9	10:59:25 AM	19.048	15
10	10:59:26 AM	19.091	15
11	10:59:27 AM	19.114	15
12	10:59:28 AM	19.13	15
13	10:59:29 AM	19.138	15

1.173 0.8211  
0.728 0.3519

0.358  
0.191  
0.113  
0.07  
0.047  
0.031  
0.023

14	10:59:30 AM	9	19.142	15	0.019
15	10:59:31 AM	10	19.146	15	0.015
16	10:59:32 AM	11	19.149	15	0.012
17	10:59:33 AM	12	19.153	15	0.008
18	10:59:34 AM	13	19.153	15	0.008
19	10:59:35 AM	14	19.153	15	0.008
20	10:59:36 AM	15	19.157	15	0.004
21	10:59:37 AM		19.157	15	
22	10:59:38 AM		19.157	15	
23	10:59:39 AM		19.157	15	
24	10:59:40 AM		19.157	15.1	
25	10:59:41 AM		19.157	15	
26	10:59:42 AM		19.157	15.1	
27	10:59:43 AM		19.157	15	
28	10:59:44 AM		19.157	15	
29	10:59:45 AM		19.157	15.1	
30	10:59:46 AM		19.161	15.1	
31	10:59:47 AM		19.161	15.1	
32	10:59:48 AM		19.161	15.1	
33	10:59:49 AM		19.161	15.1	
34	10:59:50 AM		19.161	15.1	
35	10:59:51 AM		19.161	15.1	
36	10:59:52 AM		19.161	15.1	
37	10:59:53 AM		19.161	15.1	
38	10:59:54 AM		19.161	15.1	
39	10:59:55 AM		19.161	15.1	
40	10:59:56 AM		19.161	15.1	
41	10:59:57 AM		19.161	15.1	
42	10:59:58 AM		19.161	15.1	
43	10:59:59 AM		19.161	15.1	
44	11:00:00 AM		19.161	15.1	
45	11:00:01 AM		19.161	15.1	
46	11:00:02 AM		19.161	15.1	
47	11:00:03 AM		19.161	15.1	
48	11:00:04 AM		19.161	15.1	
49	11:00:05 AM		19.161	15.1	
50	11:00:06 AM		19.161	15.1	

51	11:00:07 AM	19.161	15.1
52	11:00:08 AM	19.161	15.1
53	11:00:09 AM	19.161	15.1
54	11:00:10 AM	19.161	15.1
55	11:00:11 AM	19.161	15.1
56	11:00:12 AM	19.161	15.1
57	11:00:13 AM	19.161	15.1
58	11:00:14 AM	19.161	15.1
59	11:00:15 AM	19.161	15.1
60	11:00:16 AM	19.161	15.1
61	11:00:17 AM	19.161	15.1
62	11:00:18 AM	19.161	15.1
63	11:00:19 AM	19.161	15.1
64	11:00:20 AM	19.161	15.1
65	11:00:21 AM	19.161	15.1
66	11:00:22 AM	19.161	15.1
67	11:00:23 AM	19.165	15.1
68	11:00:24 AM	19.161	15.1
69	11:00:25 AM	19.161	15.1
70	11:00:26 AM	19.161	15.1
71	11:00:27 AM	19.161	15.1
72	11:00:28 AM	19.161	15.1
73	11:00:29 AM	19.161	15.1
74	11:00:30 AM	19.161	15.1
75	11:00:31 AM	19.161	15.1
76	11:00:32 AM	19.161	15.1
77	11:00:33 AM	19.161	15.1
78	11:00:34 AM	19.161	15.1
79	11:00:35 AM	19.161	15.1
80	11:00:36 AM	19.161	15.1
81	11:00:37 AM	19.161	15.1
82	11:00:38 AM	19.161	15.1
83	11:00:39 AM	19.161	15.1
84	11:00:40 AM	19.161	15.1
85	11:00:41 AM	19.161	15.1
86	11:00:42 AM	19.161	15.1
87	11:00:43 AM	19.161	15.1

88	11:00:44 AM	19.161	15.1
89	11:00:45 AM	19.161	15.1
90	11:00:46 AM	19.161	15.1
91	11:00:47 AM	19.161	15.1
92	11:00:48 AM	19.161	15.1
93	11:00:49 AM	19.161	15.1
94	11:00:50 AM	19.161	15.1
95	11:00:51 AM	19.161	15.1
96	11:00:52 AM	19.161	15.1
97	11:00:53 AM	19.165	15.1
98	11:00:54 AM	19.161	15.1
99	11:00:55 AM	19.161	15.1
100	11:00:56 AM	19.161	15.1

301slugout2.csv

Advanced

Calibration Data

Block	Cal Date	m2	m1	m0	b3	b2	b1	b0
Block 0	6/1/2007 10:40	1.00E-06	-2.40E-05	1.00326	-0.166016	8.80E-05	-3.71E-03	0.110421
Block 1	unknown	0	0	0	0	0	0	100

Field Calibration

Data	m	b	Cal Date
Pressure	1	1	0 6/4/2007 14:58
Temperature	1	1	0 unknown

SensorSN 2549026

Sensor Type PT2X

Sensor Name aquistar

Session Name 301slugout2

# Records 100

Statistical Data

Rec #	Date/Time	Pressure(Ft H2O)	Temperature(degC)
1	11:04:14 AM	19.162	14.8
2	11:04:15 AM	19.162	14.8
3	11:04:16 AM	18.947	14.9
4	11:04:17 AM	18.3	14.9
5	11:04:18 AM	18.02	14.9
6	11:04:19 AM	18.643	14.9
7	11:04:20 AM	18.928	14.9
8	11:04:21 AM	19.045	14.9
9	11:04:22 AM	19.103	14.9
10	11:04:23 AM	19.119	14.9
11	11:04:24 AM	19.134	14.9
12	11:04:25 AM	19.142	14.9
13	11:04:26 AM	19.146	14.9

Pressure(Ft H2O) Temperature(degC)  
50 psig -40 - +125 degC

Minimum 18.02 14.8  
Maximum 19.162 15  
Mean 19.128 15  
Variance 0.0232 0  
Std Deviation 0.1523 0.05

Pressure(Ft H2O) Temperature(degC)

1.142 0.76514  
0.519 0.37686  
0.234  
0.117  
0.059  
0.043  
0.028  
0.02  
0.016

14	11:04:27 AM	9	19.15	14.9	0.012
15	11:04:28 AM		19.154	14.9	
16	11:04:29 AM		19.153	14.9	
17	11:04:30 AM		19.153	14.9	
18	11:04:31 AM		19.153	14.9	
19	11:04:32 AM		19.157	14.9	
20	11:04:33 AM		19.157	14.9	
21	11:04:34 AM		19.157	14.9	
22	11:04:35 AM		19.157	14.9	
23	11:04:36 AM		19.157	14.9	
24	11:04:37 AM		19.157	14.9	
25	11:04:38 AM		19.157	14.9	
26	11:04:39 AM		19.157	14.9	
27	11:04:40 AM		19.157	14.9	
28	11:04:41 AM		19.157	14.9	
29	11:04:42 AM		19.161	14.9	
30	11:04:43 AM		19.157	14.9	
31	11:04:44 AM		19.157	15	
32	11:04:45 AM		19.161	14.9	
33	11:04:46 AM		19.157	15	
34	11:04:47 AM		19.161	14.9	
35	11:04:48 AM		19.161	14.9	
36	11:04:49 AM		19.161	14.9	
37	11:04:50 AM		19.161	14.9	
38	11:04:51 AM		19.161	14.9	
39	11:04:52 AM		19.161	14.9	
40	11:04:53 AM		19.161	15	
41	11:04:54 AM		19.161	15	
42	11:04:55 AM		19.161	14.9	
43	11:04:56 AM		19.161	15	
44	11:04:57 AM		19.161	15	
45	11:04:58 AM		19.161	14.9	
46	11:04:59 AM		19.161	15	
47	11:05:00 AM		19.161	15	
48	11:05:01 AM		19.161	15	
49	11:05:02 AM		19.161	15	
50	11:05:03 AM		19.161	15	

51	11:05:04 AM	19.161	15
52	11:05:05 AM	19.161	15
53	11:05:06 AM	19.161	15
54	11:05:07 AM	19.161	15
55	11:05:08 AM	19.161	15
56	11:05:09 AM	19.161	15
57	11:05:10 AM	19.161	15
58	11:05:11 AM	19.161	15
59	11:05:12 AM	19.161	15
60	11:05:13 AM	19.161	15
61	11:05:14 AM	19.161	15
62	11:05:15 AM	19.161	15
63	11:05:16 AM	19.161	15
64	11:05:17 AM	19.161	15
65	11:05:18 AM	19.161	15
66	11:05:19 AM	19.161	15
67	11:05:20 AM	19.157	15
68	11:05:21 AM	19.161	15
69	11:05:22 AM	19.161	15
70	11:05:23 AM	19.161	15
71	11:05:24 AM	19.161	15
72	11:05:25 AM	19.161	15
73	11:05:26 AM	19.161	15
74	11:05:27 AM	19.161	15
75	11:05:28 AM	19.161	15
76	11:05:29 AM	19.161	15
77	11:05:30 AM	19.161	15
78	11:05:31 AM	19.161	15
79	11:05:32 AM	19.161	15
80	11:05:33 AM	19.161	15
81	11:05:34 AM	19.161	15
82	11:05:35 AM	19.161	15
83	11:05:36 AM	19.161	15
84	11:05:37 AM	19.161	15
85	11:05:38 AM	19.161	15
86	11:05:39 AM	19.161	15
87	11:05:40 AM	19.161	15



88	11:05:41 AM	19.161	15
89	11:05:42 AM	19.161	15
90	11:05:43 AM	19.161	15
91	11:05:44 AM	19.161	15
92	11:05:45 AM	19.161	15
93	11:05:46 AM	19.161	15
94	11:05:47 AM	19.161	15
95	11:05:48 AM	19.161	15
96	11:05:49 AM	19.161	15
97	11:05:50 AM	19.161	15
98	11:05:51 AM	19.161	15
99	11:05:52 AM	19.161	15
100	11:05:53 AM	19.161	15

302slugin1.csv

Advanced

Calibration Data

Block	Cal Date	m2	m1	m0	b3	b2	b1	b0
Block 0	6/1/2007 10:40	1.00E-06	-2.40E-05	1.00326	-0.166016	8.80E-05	-3.71E-03	0.110421
Block 1	unknown	0	0	0	0	0	0	100

Field Calibration

Data	m	b	Cal Date
Pressure	1	1	6/4/2007 14:58
Temperature	1	0	unknown

SensorSN 2549026

Sensor Type PT2X

Sensor Name aquistar

Session Name 302slugin1

# Records 100

Statistical Data

Sensor Range	Pressure(Ft H2O)	Temperature(degC)
50 psig	-40 - +125 degC	
Minimum	16.571	14.5
Maximum	18.192	14.8
Mean	16.639	14.7
Variance	0.0609	0.01
Std Deviation	0.2467	0.09

Rec #	Date/Time	Pressure(Ft H2O)	Temperature(degC)
1	9:18:57 AM	16.903	14.5
2	9:18:58 AM	18.192	14.5
3	9:18:59 AM	18.184	14.6
4	9:19:00 AM	17.315	14.6
5	9:19:01 AM	17.14	14.6
6	9:19:02 AM	16.965	14.6
7	9:19:03 AM	16.856	14.6
8	9:19:04 AM	16.778	14.6
9	9:19:05 AM	16.719	14.6
10	9:19:06 AM	16.68	14.6
11	9:19:07 AM	16.653	14.6
12	9:19:08 AM	16.634	14.6
13	9:19:09 AM	16.618	14.6
14	9:19:10 AM	16.606	14.6

15	9:19:11 AM	13	16.598	14.6	0.027
16	9:19:12 AM	14	16.595	14.6	0.024
17	9:19:13 AM	15	16.591	14.6	0.02
18	9:19:14 AM		16.587	14.6	
19	9:19:15 AM		16.587	14.6	
20	9:19:16 AM		16.587	14.6	
21	9:19:17 AM		16.583	14.6	
22	9:19:18 AM		16.583	14.6	
23	9:19:19 AM		16.583	14.6	
24	9:19:20 AM		16.583	14.6	
25	9:19:21 AM		16.579	14.6	
26	9:19:22 AM		16.579	14.6	
27	9:19:23 AM		16.579	14.7	
28	9:19:24 AM		16.579	14.7	
29	9:19:25 AM		16.579	14.7	
30	9:19:26 AM		16.579	14.7	
31	9:19:27 AM		16.579	14.7	
32	9:19:28 AM		16.579	14.7	
33	9:19:29 AM		16.579	14.7	
34	9:19:30 AM		16.579	14.7	
35	9:19:31 AM		16.579	14.7	
36	9:19:32 AM		16.579	14.7	
37	9:19:33 AM		16.579	14.7	
38	9:19:34 AM		16.579	14.7	
39	9:19:35 AM		16.579	14.7	
40	9:19:36 AM		16.575	14.7	
41	9:19:37 AM		16.579	14.7	
42	9:19:38 AM		16.579	14.7	
43	9:19:39 AM		16.579	14.7	
44	9:19:40 AM		16.575	14.8	
45	9:19:41 AM		16.579	14.7	
46	9:19:42 AM		16.575	14.8	
47	9:19:43 AM		16.575	14.8	
48	9:19:44 AM		16.575	14.8	
49	9:19:45 AM		16.575	14.8	
50	9:19:46 AM		16.575	14.8	
51	9:19:47 AM		16.575	14.8	
52	9:19:48 AM		16.575	14.8	

53	9:19:49 AM	16.575	14.8
54	9:19:50 AM	16.575	14.8
55	9:19:51 AM	16.575	14.8
56	9:19:52 AM	16.575	14.8
57	9:19:53 AM	16.579	14.8
58	9:19:54 AM	16.571	14.8
59	9:19:55 AM	16.575	14.8
60	9:19:56 AM	16.579	14.8
61	9:19:57 AM	16.575	14.8
62	9:19:58 AM	16.575	14.8
63	9:19:59 AM	16.575	14.8
64	9:20:00 AM	16.575	14.8
65	9:20:01 AM	16.575	14.8
66	9:20:02 AM	16.575	14.8
67	9:20:03 AM	16.575	14.8
68	9:20:04 AM	16.579	14.8
69	9:20:05 AM	16.575	14.8
70	9:20:06 AM	16.579	14.8
71	9:20:07 AM	16.575	14.8
72	9:20:08 AM	16.575	14.8
73	9:20:09 AM	16.575	14.8
74	9:20:10 AM	16.575	14.8
75	9:20:11 AM	16.575	14.8
76	9:20:12 AM	16.575	14.8
77	9:20:13 AM	16.575	14.8
78	9:20:14 AM	16.575	14.8
79	9:20:15 AM	16.575	14.8
80	9:20:16 AM	16.575	14.8
81	9:20:17 AM	16.575	14.8
82	9:20:18 AM	16.575	14.8
83	9:20:19 AM	16.575	14.8
84	9:20:20 AM	16.575	14.8
85	9:20:21 AM	16.575	14.8
86	9:20:22 AM	16.575	14.8
87	9:20:23 AM	16.575	14.8
88	9:20:24 AM	16.575	14.8
89	9:20:25 AM	16.571	14.8
90	9:20:26 AM	16.575	14.8

91	9:20:27 AM	16:575	14.8
92	9:20:28 AM	16:575	14.8
93	9:20:29 AM	16:575	14.8
94	9:20:30 AM	16:575	14.8
95	9:20:31 AM	16:575	14.8
96	9:20:32 AM	16:575	14.8
97	9:20:33 AM	16:575	14.8
98	9:20:34 AM	16:575	14.8
99	9:20:35 AM	16:579	14.8
100	9:20:36 AM	16:575	14.8

302slugin2.csv

Advanced Calibration

Data	Cal Date	m2	m1	m0	b3	b2	b1	b0
Block 0	6/1/2007 10:40	1.00E-06	-2.40E-05	1.00326	-0.166016	8.80E-05	-3.71E-03	0.110421
Block 1	unknown	0	0	0	0	0	0	100

Field Calibration Data

Field	m	b	Cal Date
Pressure	1	0	6/4/2007 14:58
Temperature	1	0	unknown

SensorSN 2549026

Sensor Type PT2X

Sensor Name aquisitar

Session Name 302slugin2

# Records 100

Statistical Data

Sensor Range	Pressure(Ft H2O)	Temperature(degC)
Minimum	16.575	14.6
Maximum	18.215	14.8
Mean	16.62	14.8
Variance	0.0394	0.01
Std Deviation	0.1985	0.07

Rec #	Date/Time	Pressure(Ft H2O)	Temperature(degC)
1	9:28:00 AM	16.579	14.6
2	9:28:01 AM	16.579	14.6
3	9:28:02 AM	16.583	14.6
4	9:28:03 AM	16.591	14.6
5	9:28:04 AM	17.537	14.6
6	9:28:05 AM	18.215	14.6
7	9:28:06 AM	17.14	14.6
8	9:28:07 AM	16.934	14.6
9	9:28:08 AM	16.805	14.6
10	9:28:09 AM	16.696	14.6
11	9:28:10 AM	16.641	14.6
12	9:28:11 AM	16.618	14.6
13	9:28:12 AM	16.602	14.6

14	9:28:13 AM	8	16.598	14.6
15	9:28:14 AM	9	16.594	14.7
16	9:28:15 AM	10	16.587	14.6
17	9:28:16 AM	11	16.591	14.7
18	9:28:17 AM	12	16.587	14.7
19	9:28:18 AM	13	16.587	14.7
20	9:28:19 AM	14	16.587	14.7
21	9:28:20 AM	15	16.587	14.7
22	9:28:21 AM		16.583	14.7
23	9:28:22 AM		16.583	14.7
24	9:28:23 AM		16.583	14.7
25	9:28:24 AM		16.583	14.7
26	9:28:25 AM		16.583	14.7
27	9:28:26 AM		16.583	14.7
28	9:28:27 AM		16.583	14.7
29	9:28:28 AM		16.583	14.7
30	9:28:29 AM		16.579	14.7
31	9:28:30 AM		16.583	14.7
32	9:28:31 AM		16.579	14.7
33	9:28:32 AM		16.583	14.8
34	9:28:33 AM		16.583	14.8
35	9:28:34 AM		16.583	14.7
36	9:28:35 AM		16.579	14.7
37	9:28:36 AM		16.579	14.8
38	9:28:37 AM		16.579	14.8
39	9:28:38 AM		16.579	14.8
40	9:28:39 AM		16.579	14.8
41	9:28:40 AM		16.579	14.8
42	9:28:41 AM		16.579	14.8
43	9:28:42 AM		16.579	14.8
44	9:28:43 AM		16.579	14.8
45	9:28:44 AM		16.579	14.8
46	9:28:45 AM		16.579	14.8
47	9:28:46 AM		16.579	14.8
48	9:28:47 AM		16.579	14.8
49	9:28:48 AM		16.579	14.8
50	9:28:49 AM		16.579	14.8

51	9:28:50 AM	16.579	14.8
52	9:28:51 AM	16.579	14.8
53	9:28:52 AM	16.579	14.8
54	9:28:53 AM	16.575	14.8
55	9:28:54 AM	16.579	14.8
56	9:28:55 AM	16.579	14.8
57	9:28:56 AM	16.579	14.8
58	9:28:57 AM	16.579	14.8
59	9:28:58 AM	16.579	14.8
60	9:28:59 AM	16.579	14.8
61	9:29:00 AM	16.579	14.8
62	9:29:01 AM	16.579	14.8
63	9:29:02 AM	16.579	14.8
64	9:29:03 AM	16.579	14.8
65	9:29:04 AM	16.579	14.8
66	9:29:05 AM	16.579	14.8
67	9:29:06 AM	16.579	14.8
68	9:29:07 AM	16.579	14.8
69	9:29:08 AM	16.579	14.8
70	9:29:09 AM	16.579	14.8
71	9:29:10 AM	16.579	14.8
72	9:29:11 AM	16.579	14.8
73	9:29:12 AM	16.579	14.8
74	9:29:13 AM	16.579	14.8
75	9:29:14 AM	16.579	14.8
76	9:29:15 AM	16.579	14.8
77	9:29:16 AM	16.579	14.8
78	9:29:17 AM	16.579	14.8
79	9:29:18 AM	16.579	14.8
80	9:29:19 AM	16.579	14.8
81	9:29:20 AM	16.579	14.8
82	9:29:21 AM	16.575	14.8
83	9:29:22 AM	16.579	14.8
84	9:29:23 AM	16.579	14.8
85	9:29:24 AM	16.575	14.8
86	9:29:25 AM	16.579	14.8
87	9:29:26 AM	16.575	14.8



88	9:29:27 AM	16.579	14.8
89	9:29:28 AM	16.579	14.8
90	9:29:29 AM	16.579	14.8
91	9:29:30 AM	16.579	14.8
92	9:29:31 AM	16.579	14.8
93	9:29:32 AM	16.579	14.8
94	9:29:33 AM	16.579	14.8
95	9:29:34 AM	16.575	14.8
96	9:29:35 AM	16.575	14.8
97	9:29:36 AM	16.575	14.8
98	9:29:37 AM	16.579	14.8
99	9:29:38 AM	16.579	14.8
100	9:29:39 AM	16.579	14.8

302slugout3.csv

Advanced

Calibration Data	Cal Date	m2	m1	m0	b3	b2	b1	b0
Block 0	6/1/2007 10:40	1.00E-06	-2.40E-05	1.00326	-0.166016	8.80E-05	-3.71E-03	0.110421
Block 1	unknown	0	0	0	0	0	0	100

Field

Calibration Data	m	b	Cal Date
Pressure	1	1	6/4/2007 14:58
Temperature	1	0	unknown

SensorSN 2549026  
 Sensor Type PT2X  
 Sensor Name aquistar  
 Session Name 302slugout3  
 # Records 100

Statistical Data

Sensor Range	Pressure(Ft H2O)	Temperature(degC)
Minimum	15.632	14.5
Maximum	16.579	14.8
Mean	16.551	14.7
Variance	0.0158	0.01
Std Deviation	0.1256	0.08

Rec #	Date/Time	Pressure(Ft H2O)	Temperature(degC)	Pressure(Ft H2O)	Temperature(degC)	Pressure(Ft H2O)	Temperature(degC)
1	9:35:42 AM	16.575	14.5	16.575	14.5	16.575	14.5
2	9:35:43 AM	16.575	14.6	16.575	14.6	16.575	14.6
3	9:35:44 AM	16.501	14.6	16.501	14.6	16.501	14.6
4	9:35:45 AM	16.205	14.6	16.205	14.6	16.205	14.6
5	9:35:46 AM	15.632	14.6	15.632	14.6	15.632	14.6
6	9:35:47 AM	15.858	14.6	15.858	14.6	15.858	14.6
7	9:35:48 AM	16.295	14.6	16.295	14.6	16.295	14.6
8	9:35:49 AM	16.482	14.6	16.482	14.6	16.482	14.6
9	9:35:50 AM	16.54	14.6	16.54	14.6	16.54	14.6
10	9:35:51 AM	16.556	14.6	16.556	14.6	16.556	14.6
11	9:35:52 AM	16.563	14.6	16.563	14.6	16.563	14.6

12	9:35:53 AM	7	16.567	14.6	0.008
13	9:35:54 AM	8	16.567	14.6	0.008
14	9:35:55 AM	9	16.567	14.6	0.008
15	9:35:56 AM	10	16.571	14.6	0.004
16	9:35:57 AM	11	16.571	14.6	0.004
17	9:35:58 AM	12	16.571	14.6	0.004
18	9:35:59 AM	13	16.571	14.6	0.004
19	9:36:00 AM	14	16.575	14.6	0
20	9:36:01 AM	15	16.575	14.6	
21	9:36:02 AM	16	16.575	14.6	
22	9:36:03 AM	17	16.575	14.6	
23	9:36:04 AM	18	16.575	14.7	
24	9:36:05 AM	19	16.575	14.7	
25	9:36:06 AM	20	16.575	14.7	
26	9:36:07 AM	21	16.575	14.7	
27	9:36:08 AM	22	16.575	14.7	
28	9:36:09 AM	23	16.579	14.7	
29	9:36:10 AM	24	16.579	14.7	
30	9:36:11 AM	25	16.575	14.7	
31	9:36:12 AM	26	16.579	14.7	
32	9:36:13 AM	27	16.579	14.7	
33	9:36:14 AM	28	16.579	14.7	
34	9:36:15 AM	29	16.579	14.7	
35	9:36:16 AM	30	16.579	14.7	
36	9:36:17 AM	31	16.579	14.7	
37	9:36:18 AM	32	16.555	14.7	
38	9:36:19 AM	33	16.575	14.8	
39	9:36:20 AM	34	16.579	14.8	
40	9:36:21 AM	35	16.579	14.7	
41	9:36:22 AM	36	16.579	14.8	
42	9:36:23 AM	37	16.579	14.8	
43	9:36:24 AM	38	16.579	14.8	
44	9:36:25 AM	39	16.579	14.8	
45	9:36:26 AM	40	16.579	14.8	
46	9:36:27 AM	41	16.579	14.8	
47	9:36:28 AM	42	16.571	14.8	
48	9:36:29 AM	43	16.575	14.8	

49	9:36:30 AM	16.575	14.8
50	9:36:31 AM	16.575	14.8
51	9:36:32 AM	16.579	14.8
52	9:36:33 AM	16.579	14.8
53	9:36:34 AM	16.579	14.8
54	9:36:35 AM	16.579	14.8
55	9:36:36 AM	16.579	14.8
56	9:36:37 AM	16.579	14.8
57	9:36:38 AM	16.579	14.8
58	9:36:39 AM	16.579	14.8
59	9:36:40 AM	16.579	14.8
60	9:36:41 AM	16.579	14.8
61	9:36:42 AM	16.579	14.8
62	9:36:43 AM	16.579	14.8
63	9:36:44 AM	16.571	14.8
64	9:36:45 AM	16.579	14.8
65	9:36:46 AM	16.579	14.8
66	9:36:47 AM	16.579	14.8
67	9:36:48 AM	16.579	14.8
68	9:36:49 AM	16.579	14.8
69	9:36:50 AM	16.579	14.8
70	9:36:51 AM	16.579	14.8
71	9:36:52 AM	16.579	14.8
72	9:36:53 AM	16.579	14.8
73	9:36:54 AM	16.579	14.8
74	9:36:55 AM	16.579	14.8
75	9:36:56 AM	16.579	14.8
76	9:36:57 AM	16.579	14.8
77	9:36:58 AM	16.579	14.8
78	9:36:59 AM	16.579	14.8
79	9:37:00 AM	16.579	14.8
80	9:37:01 AM	16.579	14.8
81	9:37:02 AM	16.579	14.8
82	9:37:03 AM	16.579	14.8
83	9:37:04 AM	16.579	14.8
84	9:37:05 AM	16.579	14.8
85	9:37:06 AM	16.579	14.8

86	9:37:07 AM	16.563	14.8
87	9:37:08 AM	16.571	14.8
88	9:37:09 AM	16.575	14.8
89	9:37:10 AM	16.575	14.8
90	9:37:11 AM	16.579	14.8
91	9:37:12 AM	16.579	14.8
92	9:37:13 AM	16.579	14.8
93	9:37:14 AM	16.579	14.8
94	9:37:15 AM	16.579	14.8
95	9:37:16 AM	16.579	14.8
96	9:37:17 AM	16.579	14.8
97	9:37:18 AM	16.579	14.8
98	9:37:19 AM	16.579	14.8
99	9:37:20 AM	16.547	14.8
100	9:37:21 AM	16.571	14.8

303slugin3.csv

Advanced

Calibration Data

Block	Cal Date	m2	m1	m0	b3	b2	b1	b0
Block 0	6/1/2007 10:40	1.00E-06	-2.40E-05	1.00326	-0.166016	8.80E-05	-3.71E-03	0.110421
Block 1	unknown	0	0	0	0	0	0	100

Field Calibration

Data

Pressure	m	b	Cal Date
1	1	0	6/4/2007 14:58
1	1	0	unknown

SensorSN

Sensor Type

Sensor Name

Session Name

# Records

Statistical Data

2549026  
PT2X  
aquistar  
slugin3  
100

Pressure(Ft H2O) 50 psig  
Temperature(degC) -40 - +125 degC

Rec #	Date/Time	Pressure(Ft H2O)	Temperature(degC)	Pressure(Ft H2O)	Temperature(degC)
1	8:21:13 AM	15.452	14.9	15.452	14.9
2	8:21:14 AM	15.449	14.9	15.449	14.9
3	8:21:15 AM	15.449	14.9	15.449	14.9
4	8:21:16 AM	15.448	14.9	15.448	14.9
5	8:21:17 AM	15.452	14.9	15.452	14.9
6	8:21:18 AM	15.452	14.9	15.452	14.9
7	8:21:19 AM	15.46	14.9	15.46	14.9
8	8:21:20 AM	15.46	14.9	15.46	14.9
9	8:21:21 AM	15.456	14.9	15.456	14.9
10	8:21:22 AM	16.157	14.9	16.157	14.9
11	8:21:23 AM	17.603	14.9	17.603	14.9
12	8:21:24 AM	17.541	14.9	17.541	14.9
13	8:21:25 AM	16.625	14.9	16.625	14.9

2.155 1.44385  
2.093 16.16  
1.177

14	8:21:26 AM	3	16.434	14.9	0.986
15	8:21:27 AM	4	16.298	15	0.85
16	8:21:28 AM	5	16.188	15	0.74
17	8:21:29 AM	6	16.095	15	0.647
18	8:21:30 AM	7	16.013	15	0.565
19	8:21:31 AM	8	15.943	15	0.495
20	8:21:32 AM	9	15.885	15	0.437
21	8:21:33 AM	10	15.83	15	0.382
22	8:21:34 AM		15.783	15	
23	8:21:35 AM		15.74	15	
24	8:21:36 AM		15.705	15	
25	8:21:37 AM		15.674	15	
26	8:21:38 AM		15.651	15	
27	8:21:39 AM		15.624	15	
28	8:21:40 AM		15.604	15.1	
29	8:21:41 AM		15.588	15	
30	8:21:42 AM		15.573	15.1	
31	8:21:43 AM		15.557	15	
32	8:21:44 AM		15.545	15.1	
33	8:21:45 AM		15.534	15.1	
34	8:21:46 AM		15.526	15.1	
35	8:21:47 AM		15.518	15.1	
36	8:21:48 AM		15.51	15.1	
37	8:21:49 AM		15.507	15.1	
38	8:21:50 AM		15.499	15.1	
39	8:21:51 AM		15.495	15.1	
40	8:21:52 AM		15.487	15.1	
41	8:21:53 AM		15.487	15.1	
42	8:21:54 AM		15.483	15.1	
43	8:21:55 AM		15.479	15.1	
44	8:21:56 AM		15.475	15.1	
45	8:21:57 AM		15.475	15.1	
46	8:21:58 AM		15.471	15.1	
47	8:21:59 AM		15.471	15.1	
48	8:22:00 AM		15.468	15.1	
49	8:22:01 AM		15.468	15.1	
50	8:22:02 AM		15.467	15.1	

51	8:22:03 AM	15.464	15.1
52	8:22:04 AM	15.464	15.1
53	8:22:05 AM	15.464	15.1
54	8:22:06 AM	15.46	15.1
55	8:22:07 AM	15.46	15.1
56	8:22:08 AM	15.46	15.1
57	8:22:09 AM	15.46	15.1
58	8:22:10 AM	15.46	15.1
59	8:22:11 AM	15.46	15.1
60	8:22:12 AM	15.46	15.1
61	8:22:13 AM	15.46	15.1
62	8:22:14 AM	15.456	15.1
63	8:22:15 AM	15.456	15.1
64	8:22:16 AM	15.456	15.1
65	8:22:17 AM	15.456	15.1
66	8:22:18 AM	15.456	15.1
67	8:22:19 AM	15.456	15.1
68	8:22:20 AM	15.456	15.1
69	8:22:21 AM	15.456	15.1
70	8:22:22 AM	15.456	15.1
71	8:22:23 AM	15.456	15.1
72	8:22:24 AM	15.456	15.1
73	8:22:25 AM	15.456	15.1
74	8:22:26 AM	15.456	15.1
75	8:22:27 AM	15.456	15.1
76	8:22:28 AM	15.456	15.1
77	8:22:29 AM	15.456	15.1
78	8:22:30 AM	15.456	15.1
79	8:22:31 AM	15.452	15.1
80	8:22:32 AM	15.456	15.1
81	8:22:33 AM	15.456	15.2
82	8:22:34 AM	15.456	15.2
83	8:22:35 AM	15.452	15.1
84	8:22:36 AM	15.456	15.1
85	8:22:37 AM	15.456	15.1
86	8:22:38 AM	15.456	15.1
87	8:22:39 AM	15.456	15.2



88	8:22:40 AM	15.448	15.1
89	8:22:41 AM	15.456	15.1
90	8:22:42 AM	15.456	15.2
91	8:22:43 AM	15.456	15.1
92	8:22:44 AM	15.456	15.2
93	8:22:45 AM	15.456	15.2
94	8:22:46 AM	15.452	15.2
95	8:22:47 AM	15.456	15.2
96	8:22:48 AM	15.452	15.2
97	8:22:49 AM	15.456	15.2
98	8:22:50 AM	15.456	15.2
99	8:22:51 AM	15.456	15.2
100	8:22:52 AM	15.456	15.2

APPENDIX B

Groundwater Sampling Field Data Sheets



Well Number 300

Development  
 Purging

# WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1

Project Name Champaign FMGP Off-Site Investigation  
Client Company AmerenIP  
Site Name Champaign FMGP

Project Manager Derek Ingram  
Site Address \_\_\_\_\_

Project No. \_\_\_\_\_  
Cost Code \_\_\_\_\_

### Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

### Water Volume Calculation

1"=0.041, 1.5"=0.092  
 Initial Depth of Well (feet) 44.65  
 Initial Depth to Water (feet) 34.85  
 Height of Water Column in Well (feet) 19.80  
 Diameter (inches): Well 2 " Grovel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>3.2</u>	<u>9.7</u>
Grovel Pack			
Drilling Fluids			
<b>Total</b>			<b><u>9.7</u></b>

- ### Instruments
- Temperature Meter \_\_\_\_\_ Serial No. (if applicable) \_\_\_\_\_
  - Conductivity Meter \_\_\_\_\_
  - DO Meter \_\_\_\_\_
  - pH Meter \_\_\_\_\_
  - ORP Meter \_\_\_\_\_
  - Turbidity Meter \_\_\_\_\_

Water Disposal: Polystyrene tank at site w/ vent pipe

gallon to liter conversion (x3.8) = \_\_\_\_\_ Liters

### Water Removal Data

Date	Time	Development Method	Removal Rate (Liter/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (Liters)		Product Volume Removed (Liters)		Temp (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/l)	pH	ORP (mVolts)	Turbidity (<10 NTUs)	Comments
						Increment	Cumulative	Increment	Cumulative							
5/14/08	0758	<input checked="" type="checkbox"/> Pump <input checked="" type="checkbox"/> Boiler	X	N/A	-	0	0			-	-	-	-	-	-	Start development
	0803		X	N/A	-	1.0	1.0			14.1	0.288	-	-	-	-	Clean
	0813		X			1.5	2.5			14.8	0.299	-	-	-	-	
	0822		X			1.0	3.5			14.8	0.330	-	-	-	-	Dark grey clayey
	0832		X			5.0	8.5			14.8	0.353	-	-	-	-	SAW
	0837		X			1.5	10.0			15.0	0.346	-	-	-	-	SAW
	0852		X			2.0	12.0			15.2	0.371	-	-	-	-	SAW, some fine sand
	0910					-	-			-	-	-	-	-	-	Recovery water held

Circle the date and time that the development criteria are met.  
Comments: Final well depth = 44.64 + 0.07' = 44.71' (N/C)

Developer's Signature(s) [Signature] Date 5/14/08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 11°C Clear

Well ID UMW - 300

Sampler(s) 1000-001

Date 10/26/08

Sampler Type/EQ 1000-001

Well Depth 45.00

Notes Dedicated Bladder Pump

Water Level 25.58

Notes Water level was 25.58

Product Thickness 11/1

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									Temp (C)	pH	Cond. (uS/cm)	Turbidity (NTU)	ORP	DO (%)
17:18	25.68	17:18							18.56	8.00	0.607	7.6	109	97.9
17:25	30.95	17:25							16.54	7.84	0.481	4.5	124	84.9
17:30	34.96	17:30							15.59	7.58	0.463	ERR	132	61.9
5-23-08														
08:00	BEFORE SAMPLE							08:00	14.46	7.97	0.379	2.3	184	61.8
08:08	AFTER SAMPLE							7.0	14.53	7.81	0.389	8.5	189	60.6
								17:08						

Sample Time 08:00 Signature [Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 65° Clear

Well ID UMW - 117

Sampler(s) TR

Date 4-21-08

Sampler Type/EQ DED CONTROL TRD

Well Depth 15.00

Notes Dedicated Bladder Pump

Water Level 6.77

## Water Quality Parameters

Product W/M

Thickness

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
14:50	6.77	15:00		5	35	2	0		14.40	7.95	0.219	35	165	52.0
15:17	6.98			4	40		1		16.05	7.62	0.214	26	170	28.8
15:37	7.02			4	40		2		16.05	7.56	0.215	23	178	18.9
16:57	7.05			4	40		2		16.08	7.52	0.218	12	186	8.7
16:19	7.05						4		16.08	7.53	0.218	8.1	192	7.6
16:42	7.05						5		16.11	7.51	0.218	7.8	190	7.4
							5.5							
								16:45						
								70						
								17:29						

Sample Time 16:45

Signature [Signature]



# Groundwater Sampling Record

Site Name: Champaign Former MGP

Weather Conditions: 60° P-Cloudy

Sampler(s): 3" PVC

Sampler Type/EQ: Cell (Manual) PPS

Dedicated Bladder Pump

Notes:

Well ID: UMW - 116

Date: 4-20-08

Well Depth: 19.70

Water Level: 4.84

Product Thickness: N/A

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
16:30	4.94	16:36	17	30	6		0	16:40	14.22	7.40	0.554	30	91	15.6
16:50	5.25		17	30	6		1		13.95	7.81	0.544	50	106	10.7
16:56	6.10		17	35	6		2		14.19	7.18	0.533	40	121	8.3
16:01	6.20		16	35	5		3		13.18	7.12	0.532	21	125	5.7
16:09	6.20		17	36	6		4		13.31	7.17	0.524	9.2	132	4.8
16:16	6.86		17	37	6		5		13.15	7.16	0.520	6.5	138	4.8
16:22	6.40		17	40	6		6		13.15	7.16	0.519	4.6	141	4.5
16:29	6.50		17	40	6		7		13.15	7.16	0.516	3.3	144	4.6
16:48	6.51		17	40	6		8		13.14	7.16	0.514	3.2	147	4.7
								16:40						
								70						

Sample Time: 16:40 Signature: [Signature]

C:\Documents and Settings\lmemery\Desktop\Champaign GW Sample Forms.xls



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 50% Cloudy

Well ID UMW - 115

Sampler(s) 1 1/2" 5" N

Date 7/28/09

Sampler Type/EQ Dedicated Bladder Pump

Well Depth 21.50

Notes

Water Level 11.68

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
08:10	6.06	08:17	14	10	5		0		11.74	6.65	0499	45	194	8.0
08:11	7.18		14	20	5		1		11.74	6.70	0475	85	195	7.0
08:11	7.88		14	40	5		3		12.16	6.68	0469	10	192	6.2
08:12	7.61		14	32	5		4		12.17	6.64	0469	85	192	6.2
09:01	7.61		14	41	5		5	08:35	12.19	6.65	0469	16	192	5.2
09:14	7.61		14	35	5		6	09:00	12.20	6.66	0462	11	185	3.0
09:21	7.61		14	35	5		7	09:05	12.22	6.66	0468	09	186	2.9
								09:20						
								09:25						
								09:30						
								09:35						
								09:40						
								09:45						
								09:50						
								09:55						
								10:00						
								10:05						
								10:10						
								10:15						
								10:20						
								10:25						
								10:30						
								10:35						
								10:40						
								10:45						
								10:50						
								10:55						
								11:00						
								11:05						
								11:10						
								11:15						
								11:20						
								11:25						
								11:30						
								11:35						
								11:40						
								11:45						
								11:50						
								11:55						
								12:00						

Sample Time 09:50 Signature [Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 52° - 60°

Well ID UMW - 114

Sampler(s) 114-115

Date 6-20-09

Sampler Type/EQ Dedicated Bladder Pump

Well Depth 22.40

Notes

Water Level 47.2

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
11:00	6.19	0:00	14	35	5	2.0	0		16.3	7.6	0.336	5.9	99	21.5
11:05	6.19		14	40	5		1		16.0	7.46	0.336	6.2	101	19.4
11:10	6.20		14	37	5		2		16.5	7.49	0.369	6.3	102	19.1
11:15	6.22		14	37	5		3		16.7	7.47	0.365	5.7	104	19.8
11:20	6.22		14	37	5		4		16.8	7.47	0.363	6.4	104	19.5
11:25	6.22		14	37	5		5		16.7	7.47	0.358	6.3	102	19.4
11:30	6.22		14	37	5		6		16.7	7.47	0.356	6.1	102	19.2
11:35	6.22		14	37	5		7		16.7	7.46	0.355	5.9	102	19.2

Sample Time 11:00 Signature [Signature]





# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions Partly Cloudy

Well ID UMW - 113

Sampler(s) 100-009

Date 08-17-08

Sampler Type/EQ Dedicated Bladder Pump

Well Depth 22.00

Notes

Water Level

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
14:00	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:01	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:02	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:03	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:04	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:05	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:06	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:07	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:08	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:09	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:10	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:11	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:12	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:13	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:14	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:15	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:16	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:17	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:18	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:19	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:20	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:21	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:22	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:23	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:24	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:25	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:26	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:27	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:28	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:29	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:30	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:31	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:32	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:33	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:34	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:35	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:36	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:37	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:38	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:39	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:40	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:41	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:42	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:43	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:44	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:45	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:46	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:47	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:48	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:49	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:50	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:51	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:52	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:53	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:54	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:55	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:56	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:57	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:58	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
14:59	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8
15:00	416	14:16		76	1	1	0	14:16	17.8	7.2	9200	1	21	17.8

Sample Time 14:10 Signature [Signature]

# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 60° Clear

Well ID UMW - 108

Sampler(s) JW

Date 5-21-08

Sampler Type/EQ Geo Central Tool

Well Depth 14.80

Notes Dedicated Bladder Pump

Water Level 4.85

Product

Thickness N/A

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									Temp (C)	pH	Cond. (us/cm)	Turbidity (NTU)	ORP	DO (%)
11:50	4.95	12:00		30	6	0	0	13:40	14.48	7.94	0.333	26	206	40.6
12:09	5.41			30	6	1	1	13:40	13.40	7.51	0.315	18	208	32.6
12:16	5.54			40	6	2	2	13:40	14.51	7.25	0.308	18	206	20.6
12:28	5.80			45	6	3	3	13:40	14.78	7.02	0.306	2.3	206	30.1
12:47	5.91			55	5	2	2	13:40	14.95	7.02	0.311	6.9	207	44.1
12:59	6.03			60	5	4.5	4.5	13:40	15.83	7.07	0.306	4.9	210	41.8
13:19	6.18			60	5	5.0	5.0	13:40	15.80	7.07	0.306	4.1	214	40.3
13:26	6.18			60	5	6.5	6.5	13:40	15.99	7.07	0.306	4.1	215	40.3
13:29	6.30			60	5	6	6	13:40	16.02	7.07	0.306	3.9	215	40.3
								13:40						
								13:40						
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								13:40						

Sample Time 13:40 Signature [Signature]

# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 60° F Clear

Well ID UMW - 107

Date 5-22-08

Well Depth 19.20

Water Level 7.91

Product 10A

Thickness 10A

Sampler(s) 10A-3779

Sampler Type/EQ 600 Filter Pump 190

Type/EQ Dedicated Bladder Pump

Notes

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
17:45	5.01	13:58	17	30	5	1	0	15:05	13.94	7.04	0.1705	1.5	92	2.0
17:52			17	30	5	1	0	15:05	14.16	7.09	0.1471	1.5	105	2.0
18:00			17	30	5	1	0	15:25	13.5	7.14	0.173	1.5	105	2.0
18:07	4.33		17	30	5	1	0	15:05	13.07	7.14	0.1451	5.5	149	2.0
18:10	5.92		17	28	5	1	0	15:05	13.07	7.14	0.1451	5.5	149	2.0
18:40	5.96		17	28	5	1	0	15:05	13.85	7.14	0.1460	4.6	149	2.0
18:48	5.96		17	29	5	1	0	15:05	13.58	7.14	0.1464	4.3	146	1.9
18:56	5.98		17	30	5	1	0	15:05	13.60	7.14	0.1464	3.4	139	1.9
19:02	5.98		17	30	5	1	0	15:05	13.98	7.14	0.1466	3.8	137	1.9
								15:05						
								15:25						

Sample Time 15:05 Signature [Signature]

# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 50° Clear

Well ID MMW - 106

Sampler(s) SVI

Date 5-21-08

Well Depth 19.50

Sampler Type/EQ Dedicated Bladder Pump

Water Level 7.39

Notes

Product None

Thickness None

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									Temp (C)	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
08:43	7.39	09:01	16	20	5		0	10/14/0	18.92	7.68	0.410	3.8	150	670
09:14	8.05		16				1	7/0	18.86	7.19	0.595	3.3	178	170
09:23	8.06		16	33	1		2	18/85	18.85	7.15	0.598	2.8	189	8.1
09:42	8.29		16	25	5		3	18/59	18.59	7.14	0.606	3.1	196	7.2
09:47	8.56		16	45	5		4	18/57	18.57	7.15	0.606	2.2	208	11.5
10:07	8.57		16	53	5		4.5	14/06	14.06	7.15	0.609	2.3	211	13.6
10:15	8.58		16	55	5		5.0	14.24	14.24	7.15	0.610	2.0	214	13.6
10:36	8.58		16	55	5		5.5	14.24	14.24	7.15	0.612	2.7	217	14.0
								7/0						
								11/27						

Sample Time 10:40 Signature [Signature]

# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 50° Clear

Well ID UMW - 102

Sampler(s) JWL

Date 5-22-08

Sampler Type/EQ Dedicated Bladder Pump

Well Depth 21.60

Notes 08:48+09:00 TEMP RISE ONE TO SEVEN INVERT. (SAMPLE)

Water Level 4.71

Product None

Thickness None

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters						
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO	
07:40	4.71	07:50		35	6	L	0		11.96	7.38	0.234	10	148	23.9	
08:02	5.38			35	5		1		12.32	7.31	0.234	15	170	21.5	
08:14	5.38			35	5		2		12.32	7.28	0.234	6.4	188	21.3	
08:44	5.38			35	5		3		14.06	7.29	0.235	5.2	194	21.9	
08:48	6.28			35	5		4		14.71	7.30	0.237	4.4	199	21.7	
09:02	5.38			35	5		5		13.54	7.24	0.233	4.2	204	21.3	
09:14	5.38			35	5		6		13.49	7.25	0.232	4.1	207	21.2	
09:43	5.38			35	5		7		13.49	7.24	0.232	3.9	208	21.2	
								09:45							
								10:15							

Sample Time 09:45 Signature [Handwritten Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions Cloudy ~ 72°F, mild

4.5 mph

Well ID UMW - 118

Date 5-22-08

Well Depth 15.00

Water Level 6.53' msp

Product 1

Thickness

Sampler(s) Brinell/Cavers

Sampler Type/EQ Hydrolyb Quanta

Dedicated Bladder Pump

Notes 1x well vol. = 107 gal.

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters							
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO		
1458	6.60		14	5	30		0		~	~	~	~	~	~	~	~
1508	6.82		14	5	30		0		17.32	8.52	7.3	368	~	~	64.8	
1514	7.01		14	5	30		1L		13.02	7.79	6.59	327	6	30.4		
1520	<del>7.24</del>		14	5	30		2L		13.04	7.65	6.48	191	14	33.3		
1530	7.40		14	5	30		3L		13.04	7.59	6.44	274	20	33.4		
1535	7.55		14	5	30		4L		12.78	7.54	6.42	228	35	30.3		
1531	7.75		14	5	30		5L		12.83	7.48	6.39	294	29	25.4		
1538	7.81		14	5	35		6L		13.22	7.42	6.40	327	22.2	33		
								1552								

Sample Time 1539 Signature [Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions Clear 27°C

Well ID UMW-304

Sampler(s) Birnall/CN VENS

Date 5-22-08

Well Depth 45.00

Sampler Type/EQ Hakebach Quanta

Water Level 27.41 m

Product

Notes Well volume = 2.9 gals; slight tan-like odor

Thickness

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	(C) Temp	pH	(us/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
<del>1406</del>	<del>27.48</del>		<del>26</del>	<del>10</del>	<del>15</del>									
1407	27.48		26	10	15		Ø		14.72	8.38	693	11.1	-62	14.2
1410	27.48		"	"	"		1 L		14.72	8.26	689	7.9	-74	9.1
1413	27.50		26	10	15		2 L		14.63	8.13	687	5.1	-99	5.1
1416	27.50		"	"	"		3 L		14.67	8.07	686	2.6	-125	4.0
1419	27.50		26	10	15		4 L		14.70	8.03	687	3.2	-144	-
1421	27.50		26	10	15		5 L		14.75	8.03	688	2.1	-154	3.0
1423	27.50		26	10	15		6 L		14.67	8.01	690	2.2	-165	2.8
1426	27.50		26	10	15		7 L		14.73	8.00	693	2.2	-176	2.5
1428	27.50		26	10	15		8 L		14.72	8.00	696	2.2	-182	2.3
1431	27.50		26	10	15		9 L		14.80	8.00	698	1.9	-188	2.2
1434	27.50		26	10	15		10 L		14.70	8.00	702	1.6	-195	2.2
1437	27.50		26	10	15		11 L	1438	14.73	7.99	704	1.9	-199	2.1
								1446						

Sample Time 1438 Signature [Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions cloud ~ 68°F, wind ~ 5 mph

Well ID UMW - 303

Sampler(s) Hand/Screen

Date 5-22-08

Sampler Type/EQ Dedicated Bladder Pump

Well Depth 45.00

Notes 1st purge volume = 3.2 gal. Heavy H<sub>2</sub>S odor

Water Level 25.64

Product

Thickness

Sample Type: UMW 303 D @ 133M

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters						
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO	
1249	25.73		26	10	15	0	0		-	-	-	-	-	-	-
1252	25.73		26	10	15	0	0		16.58	9.01	332	37.4	-40	31.7	
1254	25.73		26	10	15	0	1.6		15.24	8.54	843	93.8	-54	12.8	
1257	25.73		26	10	15	0	2.1		15.20	8.24	795	60.8	-67	5.9	
1300	25.73		26	10	15	0	3.6		15.21	8.04	770	36.7	-73	44.6	
1306	25.73		26	10	15	0	5.6		15.14	7.94	743	13.3	-74	3.4	
1310	25.73		26	10	15	0	6.1		15.14	7.85	732	13.3	-84	2.7	
1312	25.73		26	10	15	0	7.1		15.12	7.82	725	7.74	-85	2.4	
1314	25.73		26	10	15	0	8.1		15.07	7.80	720	6.63	-86	2.5	
1317	"		"	"	"	"	9.1		15.08	7.77	715	6.55	-87	2.9	
1320	"		"	"	"	"	10.1		15.04	7.76	711	5.78	-89	2.2	
1323	"		"	"	"	"	11.1		15.10	7.73	709	4.27	-90	2.0	
1326	25.73		26	10	15	0	12.1		15.09	7.72	704	4.07	-90	2.1	
									1338						

Sample Time 1327/1331 Signature [Signature]





# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions wind & sun clear ~ 60°F

Well ID UMMW - 119

Sampler(s) Bigwell / Carver's

Date 5-22-08

Sampler Type/EQ Handheld / Carver's

Well Depth 15.00

Notes Dedicated Bladder Pump

Water Level 3.59 m

1x well volume = 10 gals.

Product Thickness

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters							
									Temp (C)	pH	Cond. (uS/cm)	Turbidity (NTU)	ORP	DO (%)		
1030	3.68															
1031	4.02		14	5	30		0			14.92	7.86	512	249	156	44.1	
1036	4.14		14	5	30		1.6			13.45	7.65	526	136	157	20.2	
1043	4.20		14	5	30		2.4			13.54	7.61	524	136	148	10.8	
1050	4.20		14	5	30		3.6			13.54	7.61	523	111	143	12.1	
1056	4.20		14	5	30		4.6			13.49	7.60	522	90	141	12.3	
1103	4.20		14	5	30		5.6			13.51	7.58	521	59	137	14.4	
1110	4.20		14	5	30		6.6			13.49	7.58	520	48	135	16.2	
								1123								

Sample Time 11:11 Signature [Signature]



# Groundwater Sampling Record

Site Name: Champaign Former MGP

Weather Conditions: Clear ~ 60°F, Wind S-10 mph

Well ID: UMW - 120

Sampler(s): Binnacle / Crown's

Date: 5-22-08

Sampler Type/EQ: Hydraulic Over-Drain

Well Depth: 15.00

Notes: Dedicated Bladder Pump

Water Level: 4.34 mg

Notes: 1x well volume = 18 gal.

Product Thickness

### Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Temp (C)	pH	Cond. (uS/cm)	Turbidity (NTU)	ORP	DO (%)
0938	4.44	-	-	-	-	-	-	-	-	-	-	-	-	-
0942	4.44	-	← 14	14	5	30/35	0	-	17.72	7.99	511	4.1	171	90.2
0948	4.60	-	← 20	20	8	25	16	-	16.93	7.55	605	130	176	26.4
0951	4.72	-	20	20	8	25	16	-	11.75	7.58	519	36.1	172	47.0
0953	4.74	-	20	20	8	25	16	-	11.99	7.58	520	43.4	168	57.9
0954	4.86	-	18	20	7	27	54	-	12.01	7.56	521	93.8	168	58.1
0956	4.86	-	16	20	6	30	64	-	12.35	7.55	521	-	164	58.2
0958	4.86	-	17	20	7	27	74	-	12.39	7.55	521	127	162	57.7
1002	4.86	-	17	20	7	27	94	1001 1010	-	-	-	-	-	-

Sample Time: 1001 Signature: [Signature]

# Groundwater Sampling Record

Site Name Champaign Former MGP  
 Sampler(s) Borewell/Chambers  
 Sampler Type/EQ Hydraulic Monitor  
 Notes 1X wellhead = 2.8 gals.

Weather Conditions Clear, 25-60°F  
Wind < 5 mph

Well ID UMW - 104  
 Date 5-22-08  
 Well Depth 19.50  
 Water Level 2.60 m  
 Product   
 Thickness

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters										
									(C) Temp	pH	(us/cm) Cond.	(NTU) Turbidity	ORP	(%) DO					
<del>07:30</del>	<del>2.43</del>		<del>13</del>	<del>5</del>	<del>30</del>		<del>0</del>												
07:54	2.90		13	5	25		0		16.33	8.58	661	26.4	221	45.7					
08:03	3.06/3.18		13	5	25		1.4		16.66	7.93	633	34.7	215	18.3					
08:14	3.80		13	5	25		3.4		11.73	7.69	684	23.2	204	8.7					
08:22	3.43		13	5	25		3.4		11.77	7.58	680	14.1	195	6.6					
08:30	3.43		13	5	25		4.6		11.77	7.58	679	11.5	187	4.1					
08:40	3.43		13	5	25		5.4		11.74	7.46	675	8.6	178	3.4					
08:44	3.44		13	5	25		6.4		11.81	7.42	673	7.9	170	3.0					
08:58	3.44		13	5	25		7.4		11.86	7.39	673	7.4	164	2.6					

Sample Time 08:02 Signature [Handwritten Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 25 mph

Clear, 20-80 F

Well ID UMW - 301

Date 5-21-08

Well Depth 45.00

Water Level 25.48 m

Product

Thickness

Sampler(s)

Sampler

Type/EQ

Notes

Hydram Water  
Dedicated Bladder Pump

Well vol. = 300 gal's ; slight foamy color.

M/S/M/D sample (2 sets samples)

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
1624	25.57		14	7/10	20/15		0		15.78	7.086	669	32.4	-31	21.4
1630	25.57		26	10	15		14		14.75	7.54	683	38.5	-55	8.4
1634	25.57		26	10	15		24		14.71	7.44	683	18.4	-66	4.4
1636	25.57		26	10	15		34		14.73	7.34	682	12.4	-72	3.4
1638	25.57		26	10	15		44		14.71	7.35	681	8.2	-76	2.8
1641	25.57		26	10	15		54		14.69	7.24	679	4.5	-81	2.6
1644	25.57		26	10	15		64		14.70	7.27	678	4.5	-84	2.4
1647	25.57		26	10	15		74		14.61	7.24	677	3.7	-88	2.0
1650	25.57		26	10	15		84		14.60	7.22	675	3.4	-90	2.0
1652	25.57		26	10	15		94		14.59	7.20	676	3.3	-92	1.9
1655	25.57		26	10	15		104		14.60	7.19	675	3.2	-94	1.8
1658	25.57		26	10	15		112		17.08	7.17	674	3.0	-95	1.9

Sample Time 1700 Signature [Signature]

(M/S/M/D)

# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions Wind < 5 mph Clear in 68°F

Well ID UMW-110

Sampler(s) Camco / Blywell

Date 5-21-03

Well Depth 20.50

Sampler Type/EQ Hydrolic Quarter Dedicated Bladder Pump

Water Level 1.03 mp

Notes 1x well volume = 1.75 gal.

Product Thickness

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
1444	1.52		16	77	35		0		18.43	8.11	668	778	-33	32.1
1456	1.72		14	67	30				16.15	7.20	655	512	-33	32.1
1459	1.72		14	7	30				16.15	7.54	639	33.7	-34	6.4
1506	1.79		14	7	33		2 L	14.46	15.05	7.46	643	20.5	-36	4.3
1517	1.80		14	7	33		3 L		15.43	7.48	619	15.0	-37	2.2
1528	1.80		14	7	33		4 L		15.06	7.49	604	13.3	-38	2.3
1537	1.80		14	7	33		5 L		15.07	7.44	610	11.9	-38	2.3
1548	1.82		14	7	33		6 L		15.10	7.45	609	9.9	-37	2.3
1554	1.82		14	7	33		6.5 L		15.53					
								16.15						

Sample Time 1555 Signature [Handwritten Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions Wind S mph, Cloudy 65°F

Well ID MMW-302

Sampler(s) Bigwell/Cavers

Date 5-21-08

Sampler Type/EQ Handy Built Dedicated Bladder Pump

Well Depth 45.00

Notes 1X well volume = 2.8 gals

Water Level 27.97

MMW = VMW3020 Job 1351

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
1300	<del>28.05</del>	28.05	-	20.5	25	-	-		-	-	-	-	-	-
1302	28.05		27	10	25				14.87	7.63	828	25.5	-24	25.8
1305	28.06		27	10	25	1.6			14.78	7.40	814	15.9	-51	9.6
1310	28.06		27	10	25	2.4			14.65	7.37	802	7.7	-69	5.7
1313	28.06		27	10	25	3.4			14.68	7.37	794	7.1	-76	4.5
1317	28.06		27	10	25	4.4			14.54	7.39	786	7.6	-82	3.8
1322	28.06		27	10	25	5.4			14.63	7.43	780	7.3	-85	3.3
1325	28.06		27	10	25	6.4			14.63	7.45	776	5.7	-94	2.7
1330	28.06		27	10	25	7.4			14.61	7.47	773	5.1	-97	2.7
1333	28.06		27	10	25	8.4			14.54	7.49	769	3.9	-99	2.3
1337	28.06		27	10	25	9.4			14.60	7.50	766	4.3	-100	2.6
1341	28.06		27	10	25	10.4			1343 14.61	7.51	763	4.5	-102	2.2
								1358						

Sample Time 1343/1351 Signature [Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions Clear, ~65°F,

Well ID UMW-121

Sampler(s) Bigwell/Chavers

mbd < 5 mgh

Date 5-21-05

Sampler Type/EQ Hickok Lab WAKR

Dedicated Bladder Pump

Well Depth 15.00

Notes IX well vol. = 1.5 gal

Water Level 6.29 m

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
<del>1122</del>	<del>6.63</del>	<del>6.55'</del>	<del>14</del>	<del>5</del>	<del>45</del>	<del>0</del>								
1122	6.63		14	5	45	0		15.82	7.96	6.24	12.7	16.7	5.94	
1138	6.73		14	5	45	1		14.44	7.29	6.21	5.81	16.3	33.2	
1155	6.79		14	5	45	2		14.83	7.16	6.19	20.9	15.5	30.1	
1206	6.90		14	5	30	3		14.39	7.13	6.22	13.6	15.2	30.3	
1214	6.90		14	5	30	4		14.31	7.12	6.21	9.8	14.8	28.6	
1222	6.91		14	5	30	5		14.31	7.11	6.20	8.1	14.1	28.2	
1228	7.00		14	5	25	6		13.11	7.12	6.18	5.7	12.1	26.2	
1234	7.02		14	5	25	7		12.40	7.09	6.14	5.4	9.5	24.3	
								12.56						

Sample Time 1240 Signature [Signature]

\* Adjusted fill time to 30 after readings  
\*\* " " fill time to 25

# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions Clear, 25-69F

Well ID UMW - 105

Sampler(s) Brnell / Carvers

held me 12-13 m/h

Date 5-21-08

Sampler Type/EQ Hydro Probe

Dedicated Bladder Pump

Well Depth 19.30

Notes 1x well vol. = 2 gals.

\*impler turned on for 2.0; changed some parameter values.

Water Level 6.91 m

## Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Temp (C)	pH	Cond. (us/cm)	Turbidity (NTU)	ORP	DO (%)
0844	6.96		14	5	35				14.82	8.37	102	3.98	228	5.63
0853	7.28		14	5	35				14.64	7.57	931	3.84	214	18.6
0908	8.21		14	5	40/50		1.6		14.36	7.44	906	3.16	206	14.4
0920	9.21		14	5	55		3.6		15.81	7.42	900	3.50	196	12.0
0933	9.20		14	5	55		4.2		15.65	7.44	891	3.04	189	10.7
0954	9.33		14	5	55		5.2		15.90	7.45	888	3.26	181	10.3
1016	9.39		14	5	60		5.5		15.17	7.44	887	8.9	170	13.1
1030	9.39		14	5	60		6.2		15.07	7.46	885	3.95	137	13.0
1031	4.34		14	5	60			11/9						

Sample Time 1041 Signature [Signature]



# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions 55° Clear

Well ID UMW - 111A

Sampler(s) JFK  
 Sampler Type/EQ DED Control Pks  
 Notes Dedicated Bladder Pump

Date 4-22-08  
 Well Depth 22.50  
 Water Level 8.445  
 Product M/P  
 Thickness

### Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Temp (C)	pH	(uS/cm) Cond.	Turbidity (NTU)	ORP	DO (%)
10:25	8.445	10:35		7	35	1	0	11:50	19.56	7.55	0.445	2.5	101	35.4
11:00	10.44			5	60	2	1.2	11:40	18.86	7.62	0.426	2.2	160	28.1
11:30	10.89			5	60	2	1.5		18.06	7.50	0.428	2.0	186	27.9
11:44	11.33													

Sample Time <u>11:50</u>	Signature
--------------------------	-----------

# Groundwater Sampling Record

Site Name Champaign Former MGP

Weather Conditions Partly Cloudy

Well ID UMW - 109

Sampler(s) JPL

Date 5-22-07

Sampler Type/E/Q Dedicated Bladder Pump

Well Depth 14.60

Notes Sample Time was 70 water level

Product N/A

Thickness N/A

### Water Quality Parameters

Time	Water Level	Begin Removal	Pressure (psi)	Fill (sec)	Pump (sec)	Removal Rate	Removal Volume	Sample Start/End	Water Quality Parameters					
									(C) Temp	pH	(uS/cm) Cond.	(NTU) Turbidity	ORP	(%) DO
15:15	0.72	14:25	14	40	5	1	0	15:40	12.50	7.81	0.539	15	89	15.2
15:16	0.75		14	40	5	1	1	15:40	12.50	7.80	0.537	18	100	16.0
15:17	0.73		14	60	5	1	0.75	15:45	12.50	7.33	0.526	13	146	17.5
								16:40						
								17:00						
								17:20						
								17:40						
								18:00						
								18:20						
								18:40						
								19:00						
								19:20						
								19:40						
								20:00						
								20:20						
								20:40						
								21:00						
								21:20						
								21:40						
								22:00						

Sample Time 15:40 Signature [Signature]

## APPENDIX C

### Well Construction and Development Logs

Well Number UMW-117

# WELL INSTALLATION RECORD

Serial No. WIR-Borehole Number (if different) B-840Project Name AmerenIP ChampaignProject No. 62403053Client Company AmerenIPCost Code. 024521

Site Name \_\_\_\_\_

Site Address 308 N. 5<sup>th</sup>, Champaign ILWell Diameter 2 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- Monitoring Well  
 Piezometer  
 Recovery Well  
 Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

Seal Material \_\_\_\_\_

**Permit**

Number \_\_\_\_\_

Date \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10	15	5
Riser (Blank Casing above Screen)	X				5	Same as top of screen.	0.33

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ↗

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag) <u>50 lb.</u>	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack						
Sand Pack	Unimin FilterSil WG1	6			15	6
Bentonite Seal	Pure Gold Medium Chips	2			6	2
Grout Seal	Cement/Bentonite Mix					
Backfill (if any)	Sand	1			2	0.5
Surface Seal	Concrete	6			0.5	0

**Well Cover**

- Finish  
 Stick-up  
 Flush  
 Vault
- Material  
 Steel  
 Aluminum

**Lock**

- Yes  
 Lock Number 2532  
 No

**Measuring Point**

- Top of Riser  
 Top of Cover

**Well Collision Protectors Installed?**

- Yes  
 Quantity \_\_\_\_\_  
 No

Comments Well placed in backyard of W. Claiborne's rental house at 5<sup>th</sup> and Hill.

Recorded by (print name) L. HoosierSignature Leslie HoosierDate 4-15-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number UMW-118

# WELL INSTALLATION RECORD

Serial No. WIR-Borehole Number (if different) B-800Project Name AmerenIP ChampaignProject No. 62403053Client Company AmerenIPCost Code. 024501

Site Name \_\_\_\_\_

Site Address 308 N 5th, Champaign ILWell Diameter 2 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

Seal Material \_\_\_\_\_

**Permit**

Number \_\_\_\_\_

Date \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X					15	5
Riser (Blank Casing above Screen)	X				5	Same as top of screen	0.33

**Annular Fill Materials**Use minus sign if top of riser is above ground. 

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack		50 lb				
Sand Pack	Unimin FilterSil WG1	7			15	4
Bentonite Seal	Pure Gold Medium Chips	1/2			4	2.5
Grout Seal	Cement/Bentonite Mix	---				
Backfill (if any)		---				
Surface Seal	Concrete	7			2.5	0

**Well Cover**

- Finish
- Stick-up
  - Flush
  - Vault
- Material
- Steel
  - Aluminum

**Lock**

- Yes
  - No
- Lock Number 2532

**Measuring Point**

- Top of Riser
- Top of Cover

**Well Collision**

- Protectors Installed?
- Yes
  - No
- Quantity \_\_\_\_\_

Comments Well placed in yard at 408 N. 5thRecorded by (print name) L. HoosierSignature Leslie HoosierDate 4-14-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number UW-119

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_

Borehole Number (if different) B-849Project Name Ameren IP ChampaignProject No. 162403053Client Company Ameren IPCost Code. 024501

Site Name \_\_\_\_\_

Site Address 308 N. 5th, Champaign, ILWell Diameter 2 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

**Permit**

Number \_\_\_\_\_

Date \_\_\_\_\_

Seal Material \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)							Same as bottom of screen.
Screen [Slot Size: <u>0.010</u> in.]	X				10	15	5
Riser (Blank Casing above Screen)	X				5	Same as top of screen.	0

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ↗

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack		50 lb.				
Sand Pack	Unimin FilterSil WG1	8			15	4
Bentonite Seal	Pure Gold Medium Chips	2			4	2.5
Grout Seal	Cement/Bentonite Mix					
Backfill (if any)	Sand				2.5	2.0
Surface Seal	Concrete	10			2	0

**Well Cover**

- Finish
- Stick-up
  - Flush
  - Vault
- Material
- Steel
  - Aluminum

**Lock**

- Yes
  - No
- Lock Number 2532

**Measuring Point**

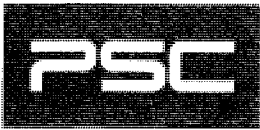
- Top of Riser
- Top of Cover

**Well Collision**

- Protectors Installed?
- Yes
  - No
- Quantity \_\_\_\_\_

Comments \_\_\_\_\_

Recorded by (print name) L. HoosierSignature Leslie HoosierDate 5-7-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number UMW-120

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_

Borehole Number (if different) B-805Project Name Ameren IP ChampaignProject No. 02403053Client Company Ameren IPCost Code. 024501

Site Name \_\_\_\_\_

Site Address 308 N. 5<sup>th</sup>, Champaign ILWell Diameter 2 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

**Permit**

Number \_\_\_\_\_

Date \_\_\_\_\_

Seal Material \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10	15	5
Riser (Blank Casing above Screen)	X				5	Same as top of screen	0.33

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ☞

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack		50 lb				
Sand Pack	Unimin FilterSil WG1	8			15	4
Bentonite Seal	Pure Gold Medium Chips	1			4	2.5
Grout Seal	Cement/Bentonite Mix					
Backfill (if any)	Sand				2.5	2
Surface Seal	Concrete				2	0

**Well Cover**

- Finish  
 Stick-up  
 Flush  
 Vault
- Material  
 Steel  
 Aluminum

**Lock**

- Yes  
 No  
 Lock Number 2532

**Measuring Point**

- Top of Riser  
 Top of Cover

**Well Collision**

- Protectors Installed?**  
 Yes  
 Quantity \_\_\_\_\_  
 No

Comments Well in backyard of house at 6<sup>th</sup> + Washington.Drilled to 16 ft; Sand from 16' to 15' (1.5 bags); Screen from 15 to 5.Recorded by (print name) L. HoosierSignature Leslie HoosierDate 4-9-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number UMW-121

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_

Borehole Number (if different) \_\_\_\_\_

Project Name Ameren IP ChampaignProject No. 62403053Client Company Ameren IPCost Code 024501

Site Name \_\_\_\_\_

Site Address 308 N. 5th, Champaign ILWell Diameter 2 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

**Permit**Number \_\_\_\_\_  
Date \_\_\_\_\_

Seal Material \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug							
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10	15	5
Riser (Blank Casing above Screen)	X				5	Same as top of screen.	0

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ☑

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack		50 lb				
Sand Pack	Unimin FilterSil WG1	8			15	4
Bentonite Seal	Pure Gold Medium Chips	1			4	2
Grout Seal	Cement/Bentonite Mix					
Backfill (if any)	Sand					
Surface Seal	Concrete	6			2	0

**Well Cover**

- Finish
- Stick-up
  - Flush
  - Vault
- Material
- Steel
  - Aluminum

**Lock**

- Yes
  - No
- Lock Number 2532

**Measuring Point**

- Top of Riser
- Top of Cover

**Well Collision****Protectors Installed?**

- Yes
  - No
- Quantity \_\_\_\_\_

Comments Surged sand pack 10 min.Recorded by (print name) L. HoosierSignature Leslie HoosierDate 4-16-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_



Well Number UMW-30

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_

Borehole Number (if different) B-851Project Name AmerenIP ChampaignProject No. 02403053Client Company AmerenIPCost Code. 024501

Site Name \_\_\_\_\_

Site Address 308 N 5<sup>th</sup>, Champaign, ILWell Diameter 2 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- 
- Monitoring Well
- 
- 
- Piezometer
- 
- 
- Recovery Well
- 
- 
- Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

Seal Material \_\_\_\_\_

**Permit**

Number \_\_\_\_\_

Date \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug							
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10.0'	45.0'	35.0'
Riser (Blank Casing above Screen)	X				35.0'	Same as top of screen.	0.0

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ↗

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack	N/A					
Sand Pack	Unimin FilterSil WG1	4	X		45.0'	33.0'
Bentonite Seal	Pure Gold Medium Chips	2		X	33.0'	28.0'
Grout Seal	Cement/Bentonite Mix	5 bentonite egg		X	28.0'	1.0'
Backfill (if any)						
Surface Seal	Concrete	6			1.0'	0

**Well Cover**

- Finish**
- 
- 
- Stick-up
- 
- 
- Flush
- 
- 
- Vault
- 
- Material**
- 
- 
- Steel
- 
- 
- Aluminum

**Lock**

- 
- Yes
- 
- 
- No
- 
- Lock Number
- 2532

**Measuring Point**

- 
- Top of Riser
- 
- 
- Top of Cover

**Well Collision Protectors Installed?**

- 
- Yes
- 
- 
- No
- 
- Quantity \_\_\_\_\_

Comments well set @ 45.0' - no casing. 10 ft screenRecorded by (print name) L. HoosierSignature Leslie HoosierDate 5-8-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number UMW301

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_

Borehole Number (if different) \_\_\_\_\_

Project Name AmerantIP ChampaignProject No. 62403553Client Company AmerantIPCost Code. 024501

Site Name \_\_\_\_\_

Site Address 308 N. 5th, Champaign, ILWell Diameter 2 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter 6 inchesMaterial PVCLength 29.5' feetDepth to Bottom of Casing 29.5' feet**Permit**

Number \_\_\_\_\_

Date \_\_\_\_\_

Seal Material Grout w/ bentonite plug @ bottom**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug							
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10.0'	45.0'	35.0'
Riser (Blank Casing above Screen)	X				35.0'	Same as top of screen.	0.0

**Annular Fill Materials**Use minus sign if top of riser is above ground. 

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack	NA					
Sand Pack	Unimin FilterSil WG1	3 1/2	X		45.0'	33.0'
Bentonite Seal	Pure Gold Medium Chips	1		X	33.0'	28.0'
Grout Seal	Cement/Bentonite Mix	4 1/2 <sup>bentonite</sup> gal		X	28.0'	1.0'
Backfill (if any)						
Surface Seal	Concrete	6			1.0'	0.0

**Well Cover**

- Finish
- Stick-up
  - Flush
  - Vault
- Material
- Steel
  - Aluminum

**Lock**

- Yes
  - No
- Lock Number 2532

**Measuring Point**

- Top of Riser
- Top of Cover

**Well Collision****Protectors Installed?**

- Yes
  - No
- Quantity \_\_\_\_\_

Comments \_\_\_\_\_

Recorded by (print name) L. HousierSignature Leslie HousierDate 5-6-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number Umw-302

# WELL INSTALLATION RECORD

Serial No. WIR-

Borehole Number (if different) \_\_\_\_\_

Project Name Ameren IP CampaignProject No. 62403053Client Company AmerenCost Code. 024501

Site Name \_\_\_\_\_

Site Address \_\_\_\_\_

Well Diameter \_\_\_\_\_ inches

Conductor Casing  None

(To seal off upper water-bearing zones)

**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter 6 inchesMaterial PVCLength 29.5' feetDepth to Bottom of Casing 29.5' feet**Permit**
 Number \_\_\_\_\_  
 Date \_\_\_\_\_
Seal Material Grout w/ bentonite plug @ bottom**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug							
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10.0'	45.0'	35.0'
Riser (Blank Casing above Screen)	X					Same as top of screen.	0.0'

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ↗

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack	<u>NA</u>					
Sand Pack	Unimin FilterSil WG1	3 1/2	X		45.0'	33.0'
Bentonite Seal	Pure Gold Medium Chips			X	33.0'	28.0'
Grout Seal	Cement/Bentonite Mix	<u>4 1/2 - bentonite</u>		X	28.0'	1.0'
Backfill (if any)						<u>-1.0'</u>
Surface Seal	Concrete	6			1.0	0

**Well Cover**

- Finish
- 
- 
- Stick-up
- 
- 
- Flush
- 
- 
- Vault
- 
- Material
- 
- 
- Steel
- 
- 
- Aluminum

**Lock**

- 
- Yes
- 
- 
- No
- 
- Lock Number
- 2532

**Measuring Point**

- 
- Top of Riser
- 
- 
- Top of Cover

**Well Collision****Protectors Installed?**

- 
- Yes
- 
- 
- No
- 
- Quantity \_\_\_\_\_

Comments Grout completed @ 1600 on 4/15/08, will complete seal on 4/16/08Seal completed 4/16/08

Recorded by (print name) \_\_\_\_\_

Signature Michael HansenDate 4/15/08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number MMW-303

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_

Borehole Number (if different) \_\_\_\_\_

Project Name AmerenIP ChampaignProject No. 62403053Client Company AmerenIPCost Code. 024501

Site Name \_\_\_\_\_

Site Address 358 N. 5<sup>th</sup> Champaign ILWell Diameter 2 inchesConductor Casing  None

(To seal off upper water-bearing zones)

**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter 6 inchesMaterial PVC

Length \_\_\_\_\_ feet

Depth to Bottom of Casing 29.5 feet

Seal Material \_\_\_\_\_

**Permit**

Number \_\_\_\_\_

Date \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10	45	35
Riser (Blank Casing above Screen)	X				35	Same as top of screen.	0

**Annular Fill Materials**Use minus sign if top of riser is above ground. 

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack						
Sand Pack	Unimin FilterSil WG1	4			45	33
Bentonite Seal	Pure Gold Medium Chips	1			33	28.1
Grout Seal	Cement/Bentonite Mix	4 1/2			28.1	1.0
Backfill (if any)						
Surface Seal	Concrete	6				

**Well Cover**

- Finish
- Stick-up
  - Flush
  - Vault
- Material
- Steel
  - Aluminum

**Lock**

- Yes
  - No
- Lock Number 2532

**Measuring Point**

- Top of Riser
- Top of Cover

**Well Collision**

- Protectors Installed?**
- Yes
  - No
- Quantity \_\_\_\_\_

Comments \_\_\_\_\_

Recorded by (print name) L. HoosierSignature Leslie HoosierDate 4-17-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number UMW-304

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_

Borehole Number (if different) \_\_\_\_\_

Project Name Ameren IP ChampaignProject No. 62403053Client Company Ameren IPCost Code. 024501

Site Name \_\_\_\_\_

Site Address 308 N 5th, Champaign ILWell Diameter 2 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter 6 inchesMaterial PVCLength 29.5 feetDepth to Bottom of Casing 29.5 feet**Permit**

Number \_\_\_\_\_

Date \_\_\_\_\_

Seal Material \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole							
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)							Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10	45	35
Riser (Blank Casing above Screen)	X				35	Same as top of screen.	0

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ☑

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack						
Sand Pack	Unimin FilterSil WG1	4			45	33
Bentonite Seal	Pure Gold Medium Chips	1			33	28.8
Grout Seal	Cement/Bentonite Mix	4 1/2 bags			28.8	1.0
Backfill (if any)						
Surface Seal	Concrete	6				

**Well Cover**

- Finish
- Stick-up
  - Flush
  - Vault
- Material
- Steel
  - Aluminum

**Lock**

- Yes
  - No
- Lock Number 2532

**Measuring Point**

- Top of Riser
- Top of Cover

**Well Collision****Protectors Installed?**

- Yes
  - No
- Quantity \_\_\_\_\_

Comments \_\_\_\_\_

Recorded by (print name) L. HoosierSignature L. HoosierDate 4-16-08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_



date 6/24/08  
Well Number UMW-305

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_

Borehole Number (if different) B-853

Project Name Amaren IP Campaign

Project No. 60243053

Client Company Amaren

Cost Code. 024501

Site Name Champaign

Site Address \_\_\_\_\_

Well Diameter 2.0 inches

Conductor Casing  None  
(To seal off upper water-bearing zones)

**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

**Permit**

Number NA  
Date NA

Seal Material \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole						45.0'	
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)	—		R-4		0.0		Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10.0'	45.0'	35.0'
Riser (Blank Casing above Screen)	X				35.0'	Same as top of screen	~0.5'

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ☞

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack	NA	—	—	—	—	—
Sand Pack #11	Unimin FilterSil WG1	6	X		45.0'	33.0'
Bentonite Seal #2	Pure Gold Medium Chips	0.5		X	33.0'	31.0'
Grout Seal	Cement/Bentonite Mix <sup>7 layers</sup> <sub>0.5 gal</sub>	7.5		X	31.0'	0.5'
Backfill (if any)	NA	—	—	—	—	—
Surface Seal	Concrete	4.5		X	0.5'	0.0'

**Well Cover**

- Finish
- Stick-up
  - Flush
  - Vault
- Material
- Steel
  - Aluminum

**Lock**

- Yes
  - No
- Lock Number 2532

**Measuring Point**

- Top of Riser
- Top of Cover

**Well Collision**

- Protectors Installed?**
- Yes
  - No
- Quantity \_\_\_\_\_

Comments well cover completed on 6/25/08  
well installed on 6/24/08

Recorded by (print name) Rachael Huser

Signature Rachael Huser

Date 6/25/08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_



date 6/25/08  
 Well Number UMW-306  
 Serial No. WIR-

# WELL INSTALLATION RECORD

Borehole Number (if different) B-854

Project Name Ameren IP Champaign

Project No. 60243053

Client Company Ameren

Cost Code. 024501

Site Name Champaign

Site Address \_\_\_\_\_

Well Diameter 2.0 inches

Conductor Casing  None  
 (To seal off upper water-bearing zones)

**Well Type**

- Monitoring Well
- Piezometer
- Recovery Well
- Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

**Permit**

Number NA  
 Date NA

Seal Material \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole						47.0'	
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)	-		ReLU		0.0'		Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10.0'	47.0'	37.0'
Riser (Blank Casing above Screen)	X				36.5'	Same as top of casing	~0.5'

**Annular Fill Materials**

Use minus sign if top of riser is above ground. ☺

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack	NA	-	-	-	-	-
Sand Pack <u>    </u>	Unimin FilterSil WG1	6	X		47.0'	35.0'
Bentonite Seal <u>1/2</u>	Pure Gold Medium Chips	0.5		X	35.0'	33.0'
Grout Seal <u>    </u>	Cement/Bentonite Mix <u>CEMENT to gel 1/4"</u>	6		X	33.0'	0.5'
Backfill (if any)	NA	-	-	-	-	-
Surface Seal	Concrete	4.5		X	0.5'	0.0'

**Well Cover**

- Finish
- Stick-up
  - Flush
  - Vault
- Material
- Steel
  - Aluminum

**Lock**

- Yes
  - No
- Lock Number 2532

**Measuring Point**

- Top of Riser
- Top of Cover

**Well Collision**

- Protectors Installed?**
- Yes
  - No
- Quantity \_\_\_\_\_

Comments well cover completed on 6/25/08  
well installed on 6/25/08

Recorded by (print name) Rachael Huson

Signature Rachael Huson

Date 6/25/08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Well Number UMW-307

# WELL INSTALLATION RECORD

Serial No. WIR- \_\_\_\_\_Borehole Number (if different) B-055Project Name Ameren TP ChampaignProject No. 60243053Client Company AmerenCost Code. 024501Site Name Champaign

Site Address \_\_\_\_\_

Well Diameter 2.0 inchesConductor Casing  None  
(To seal off upper water-bearing zones)**Well Type**

- Monitoring Well  
 Piezometer  
 Recovery Well  
 Other \_\_\_\_\_

Diameter \_\_\_\_\_ inches

Material \_\_\_\_\_

Length \_\_\_\_\_ feet

Depth to Bottom of Casing \_\_\_\_\_ feet

**Permit**Number NA

Date \_\_\_\_\_

Seal Material \_\_\_\_\_

**Well Construction Details**

Well Component	Material (specify type)				Length (feet)	Depth Below Grade (feet)	
	PVC	Stainless Steel	Teflon	Other		Bottom	Top
Borehole						47.0'	
Bottom Cap/Plug	X						
Sump (Tailpipe below screen)	-		Pell		0	-	Same as bottom of screen
Screen [Slot Size: <u>0.010</u> in.]	X				10.0	47.0'	37.0'
Riser (Blank Casing above Screen)	X				36.5	Same as top of screen	0.5'

**Annular Fill Materials**Use minus sign if top of riser is above ground. <sup>o</sup>

Component	Material Name/Description	Quantity (No. of Bags/ Volume per Bag)	Tremied		Depth Below Grade (feet)	
			Yes	No	Bottom	Top
Plug beneath sand pack			-	-		
Sand Pack	Unimin FilterSil WG1	4.0	X		47.0'	35.0'
Bentonite Seal <0.5	Pure Gold Medium Chips	<0.5		X	35.0'	33.0'
Grout Seal	Cement/Bentonite Mix	6 cement + 20.5 seal		X	33.0	0.5'
Backfill (if any)						
Surface Seal	Concrete			X	0.5'	0.0'

**Well Cover**

- Finish  
 Stick-up  
 Flush  
 Vault
- Material  
 Steel  
 Aluminum

**Lock**  
 Yes  
 No  
 Lock Number 2532

**Measuring Point**

- Top of Riser  
 Top of Cover

**Well Collision****Protectors Installed?**

- Yes  
 No  
 Quantity \_\_\_\_\_

Comments well installed on 6/26/08well cover installed on 6/26/08Recorded by (print name) Rachael HusanSignature Rachael HusanDate 6/26/08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_





Project: <b>Ameren IP Campaign</b>	Boring No.: <b>UJW-302</b>	Page(s): <b>1 of 1</b>
Client: <b>AmerenCIPS (Ameren Services)</b>	Project #:	Date: <b>4/9/08</b>
Location:	Coordinates: <b>N E</b>	Elevation (datum):

**BORING/WELL CONSTRUCTION LOG**

Drilling Company: <b>PSC</b>	Driller: <b>J. Bignall</b>	Logger: <b>R. Huser</b>
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**WELL CONSTRUCTION SUMMARY**

Depth (ft)	Casing	Depth (ft)	Annulus	Surface Completion
to		to		
to		to		
to		to		
to		to		

**Description**

Modifier and Main Soil; color; impact; consistency/density; odor; moisture; USCS  
(Refer to Ameren Standard Descriptions)

Depth (ft)	SAMPLE TYPE	SAMPLE NUMBER	1ST 6"	2ND 6"	3RD 6"	4TH 6"	SAMPLE RECOVERY	PID (ppm)
1-								
2-								
3-								
4-								
5-								
6-								
7-								
8-								
9-								
0-								
1-								
2-								
3-								
4-								
5-								
6-								
7-								
8-								
9-								
0-								

Time started: 1000

~~5.0-10.0'~~ 10-15' yellowish brown to gray silty clay  
cuttings @ auger depth of 20-40' casing  
up wet ~130

@ depth (~29.5) @ 1130 (w/cleanup)

Notes:



Project: Ameren IP Campaign Boring No.: 0111JMW-303 Page(s): 1 of 1  
 Client: AmerenCIPS (Ameren Services) Project #: 62403053 0240 Date: 4/14/08  
 Location: \_\_\_\_\_ Coordinates: N E Elevation (datum): \_\_\_\_\_

**BORING/WELL CONSTRUCTION LOG**

Drilling Company: PSC Driller: J. Bigmill Logger: R. Huson

Depth (ft)	SAMPLE TYPE	SAMPLE NUMBER	1ST 6"	2ND 6"	3RD 6"	4TH 6"	SAMPLE RECOVERY	PID (ppm)	WELL CONSTRUCTION SUMMARY				Surface Completion
									Depth (ft)	Casing	Depth (ft)	Annulus	
1-									<p><b>Description</b>            Modifier and Main Soil; color; impact; consistency/density; odor; moisture; USCS            (Refer to Ameren Standard Descriptions)</p>				
2-									<p>- drilling to depth + setting casing            logging cuttings start Drilling start time 1040            Top ~1-2' Topsoil</p>				
3-									<p>0-5' - no cuttings brought to surface            5-10.0' no cuttings brought to surface            10.0' Augers @ 10.0' cuttings yellowish brown,            silty clay, wet sandy</p>				
4-									<p>- placed 5X bags of bentonite chips around auger            for plug.</p>				
5-									<p>10.0' - 15.0' same color <sup>coal tar</sup> hydrocarbon like odor            using drilling fluid (Pure <del>oil</del> gel)</p>				
6-									<p>15' - 20.0' - Augers at 20.0' - cuttings yellowish            gray silty clay w/ sand; coal tar like            odor <del>at 20.0'</del> but moderate odor</p>				
7-									<p>20.0' - light gray silty clay w/ gravel (TLL),            coal tar-like odor, wet (due to drilling fluid)</p>				
8-									<p>25.0' - slight coal tar like odor</p>				
9-									<p>1451345 - Boring terminated @ 30.0', mixing            grout for well. Grout mixture 10 bags cement,            1 bag Pure gold gel, Grouting @ 1430</p>				
0-									<p>1515 - set casing            1520 - pulling augers            4/15 R11</p>				

Notes: \_\_\_\_\_



Project: <b>AmerenIP Champaign MGP</b>	Boring No.: <b>UMW-303</b>	Page(s): <b>1 of 1</b>
Client: <b>AmerenCIPS (Ameren Services)</b>	Project #: <b>102403053</b>	Date: <b>4-17-08</b>
Location: <b>Champaign, IL</b>	Coordinates: <b>N E</b>	Elevation (datum):

**BORING/WELL CONSTRUCTION LOG**

Drilling Company:

**PSC**

Driller:

**Biggall / Crank**

Logger:

**L. Hoosier**

Depth (ft)	SAMPLE TYPE	SAMPLE NUMBER	1ST 6"	2ND 6"	3RD 6"	4TH 6"	SAMPLE RECOVERY	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD	PID (ppm)
30															
33															
34	SS	1	8	15	16	17	18"								
35															
38															
39	SS	2	4	5	8	10	20"								
40															
43															
44	SS	3	7	11	14	16	8"								
45															

**WELL CONSTRUCTION SUMMARY**

Depth (ft)	Casing	Depth (ft)	Annulus	Surface Completion
to		to		
to		to		
to		to		

**Description**

Modifier and Main Soil; color; impact; consistency/density; odor; moisture; USCS (Refer to Ameren Standard Descriptions)

Silty clay with gravel; (TLL) gray; no odor; damp (CL)  
Sand @ 34.0' - Med. to coarse grained - wet (SP)

Silty clay with trace gravel and f.g. sand; (TLL) Lt. brownish gray; no odor; moist (CL)

Silty clay with trace gravel; (TLL) gray; no odor; damp (CL)

**TOB @ 45.0'**

- See well Installation Record -  
**UMW-303**

*Leslie Hoosier*

Notes: **Mud rotary 29.5' to 45.0'**



Project: Ameren EP Champaign	Boring No.: UMW-304	Page(s): of
Client: AmerenCIPS (Ameren Services)	Project #: 62403053024501	Date: 4/7/08
Location: Champaign, IL	Coordinates: N E	Elevation (datum):

**BORING/WELL CONSTRUCTION LOG**

Drilling Company:

PSC

Driller:

J. Crank

Logger:

R. Wilson

**WELL CONSTRUCTION SUMMARY**

Depth (ft)	Casing	Depth (ft)	Annulus	Surface Completion
to		to		
to		to		
to		to		
to		to		

**Description**

Modifier and Main Soil; color; impact; consistency/density; odor; moisture; USCS  
(Refer to Ameren Standard Descriptions)

Depth (ft)	SAMPLE TYPE	SAMPLE NUMBER	1ST 6"	2ND 6"	3RD 6"	4TH 6"	SAMPLE RECOVERY	PID (ppm)
	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD	
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

Logged Auger cuttings: (12" ID)

- Auger depth 10.0', cuttings on surface are silty clay, dark brown to black, stiff, moderate odor (mgp-like)  
15.0' - drilling fluid added (PVM-6oid-6E)  
18.0' (Auger depth) - color change to light brownish gray, wet

20.0' (Auger depth) same as above; moderate odor (mgp-like), wet

23.0' (Auger depth) color change to light gray, material stiff (no odor)

25.0' - (Auger depth) cuttings silty clay w/ gravel (GW); light gray; stiff, no odor, damp

30.0' - Auger depth, same as above, bottom of boring @ 1400

1500 - mixing concrete

1520 - grating - bottom of casing @ 29.5'

1632 - finish grating

PLH  
29.47'

Notes:



Project:

Champaign M&P

Boring No.:

UMW-304

Page(s):

1 of 1

Client:

AmerenCIPS (Ameren Services)

Project #:

62403053

Date:

4-16-08

BORING/WELL CONSTRUCTION LOG

Location:

Champaign IL

Coordinates:

N E

Elevation (datum):

Drilling Company:

PSC

Driller:

Bignall (Crank)

Logger:

L. Hoosier

WELL CONSTRUCTION SUMMARY

Depth (ft)	Casing	Depth (ft)	Annulus	Surface Completion
— to —	—	— to —	—	—
— to —	—	— to —	—	—
— to —	—	— to —	—	—
— to —	—	— to —	—	—

Description

Modifier and Main Soil; color; impact; consistency/density; odor; moisture; USCS (Refer to Ameren Standard Descriptions)

Depth (ft)	SAMPLE TYPE	SAMPLE NUMBER	1ST 6"	2ND 6"	3RD 6"	4TH 6"	SAMPLE RECOVERY	PID (ppm)	Description
30									
31									
32									
33									
34	SS	1	4	7	10	18	22"		Silty clay with gravel; (TILL); gray; no visible impact; stiff; no odor; damp (CL)
35									Sand @ 35' med to coarse grained; no visible impact; dense; no odor; wet (SP)
36									
37									
38									
39	SS	2	10	14	18	22	20"		Sand; med. to coarse grained; no visible impact; dense; no odor; wet (SP)
40									
41									
42									
43									
44	SS	3	5	8	11	15	24"		Silty clay with gravel and sand; (TILL); gray; no visible impact; very stiff; no odor; damp (CL)
45									
46									
47									
48									
49									
50									

TOR @ 45.0'

— See well installation Record —  
UMW-304

Leslie Hoosier

Notes: Mud rotary 29.5' to 45.0'

0-29.5' - casing (bottom of casing @ 29.5')



Well Number MMW-117

Serial No. WDPD-

# WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1

Project Name Champaign MGP

Project Manager Perell Ingram

Project No. 62403053

Client Company AmericalP

Site Address 308 N 5<sup>th</sup> Champaign

Cost Code 024501

Serial No. (if applicable) \_\_\_\_\_

## Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other 10 well volumes max.

## Water Volume Calculation

Initial Depth of Well (feet) 15.0  
 Initial Depth to Water (feet) 7.0  
 Height of Water Column in Well (feet) 8.0  
 Diameter (inches): Well 2" Gravel Pack \_\_\_\_\_

## Methods of Development

- Pump
- Bailor
- Centrifugal
- Bottom Valve
- Submersible
- Double Check Valve
- Peristaltic
- Stainless-steel Kemmerer
- Other Whale

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>0.214</u>	<u>1.31</u>	<u>5.24</u>
Gravel Pack			
Drilling Fluids			
Total			

## Water Removal Data

$ft \times 0.1632 gal/ft = 1.31$  gal  $\times 4 = 5.24$  gal

Date	Time	Development Method	Pump/Bailor	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
							Incremental	Cumulative					
<u>4-29-08</u>	<u>1507</u>	<u>X</u>			<u>15'</u>		<u>2</u>	<u>N/A</u>					<u>Very turbid, silty brown</u>
<u>4-30-08</u>	<u>1007</u>	<u>X</u>					<u>2.5</u>		<u>11.1</u>	<u>7.06</u>			
<u>4-30-08</u>	<u>1009</u>	<u>X</u>					<u>3.0</u>		<u>11.2</u>	<u>7.01</u>			
<u>4-29-08</u>	<u>1041</u>	<u>✓</u>					<u>14</u>						<u>Very turbid</u>

Circle the date and time that the development criteria are met.

Comments Returned 4/30 after well recharged. Pumped 6 gal. - still turbid. A total of 10

well volumes were pumped out + still turbid. Closed well @ 1041 on 4/30.

Developer's Signature(s) Keslie Hoover

Date 4-29-08

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

WA  
4-30-08



Well Number UMW-121

Serial No. WDPD-

# WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1

Project Name Champaign M&P

Project Manager Derek Ingram

Project No. 02403053

Client Company AmerenIP

Site Address 208 N. 5th, Champaign IL

Cost Code 024501

Site Name \_\_\_\_\_

### Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other 10 well volumes max.

### Methods of Development

- Pump
- Centrifugal
- Submersible
- Peristaltic
- Other Whale
- Bailor
- Bottom Valve
- Double Check Valve
- Stainless-steel Kemmerer

### Water Volume Calculation

Initial Depth of Well (feet) 15.0'  
 Initial Depth to Water (feet) 6.86'  
 Height of Water Column in Well (feet) 8.14  
 Diameter (inches): Well Z Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
<b>Total</b>			<u>6.6</u>

### Instruments

- pH Meter Myron
- DO Monitor N/A
- Conductivity Meter Myron
- Temperature Meter Myron
- Quanta N/A
- Turbidity LaMotte
- Water Disposal Poly Tank on site

Serial No. (if applicable) \_\_\_\_\_

### Water Removal Data

$\text{ft} \times 0.1632 \text{ gal/ft} = 1.32 \text{ gal} \times 5 = 6.6 \text{ gal}$

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative					
<u>4/30/08</u>	<u>0955</u>	<u>X</u>		<u>15'</u>		<u>16</u>	<u>N/A</u>					<u>Very turbid - no readings</u>
												<u>Silty, brown</u>

Circle the date and time that the development criteria are met.

Comments Pumped 16 gallons + still very turbid. Unable to get any readings. Closed well @ 1115.

Developer's Signature(s) Leslie Hoosier

Date 4-30-08

Reviewer \_\_\_\_\_ Date \_\_\_\_\_



Well Number 11W-118  
 Serial No. WDPD-

# WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1  
 Project No. 6240363  
 Cost Code 024501

Project Name Champaign MGP  
 Client Company Ameren IP  
 Project Manager Derek Ingram

Site Name \_\_\_\_\_  
 Site Address \_\_\_\_\_

## Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other 10 casing volumes max.

## Methods of Development

- Pump
- Centrifugal
- Submersible
- Peristaltic
- Other Whale
- Bailor
- Bottom Valve
- Double Check Valve
- Stainless-steel Kemmerer

## Water Volume Calculation

Initial Depth of Well (feet) 15.00  
 Initial Depth to Water (feet) 2.09  
 Height of Water Column in Well (feet) 7.91  
 Diameter (inches): Well 2 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>0.16</u>	<u>1.29</u>	<u>5.16</u>
Gravel Pack	-	-	-
Drilling Fluids	-	-	-
Total	-	-	-

- Instruments
- pH Meter
  - DO Monitor
  - Conductivity Meter
  - Temperature Meter
  - Quanta
- Serial No. (if applicable)  
 pH Meter MYRON  
 DO Monitor NA  
 Conductivity Meter MYRON  
 Temperature Meter MYRON  
 Quanta NA

Water Disposal Stored on site

## Water Removal Data

$\text{ft} \times 0.1632 \text{ gal/ft} = \text{gal}$   $\times 5 = 5.20 \text{ gal}$

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Incremental	Cumulative					
<u>4/30/08</u>	<u>07:57</u>	<u>X</u>		<u>15'</u>		<u>2</u>	<u>NA</u>	<u>NA</u>				<u>Very turbid, Grey</u>
						<u>4</u>						
						<u>6</u>						
						<u>8</u>						<u>Silty, Sandy</u>
						<u>10</u>						<u>Silty, Sandy</u>
<u>4/30/08</u>												

Circle the date and time that the development criteria are met.

Comments \_\_\_\_\_

Developer's Signature(s) John D. Rade

Date 4/30/08

Reviewer \_\_\_\_\_ Date \_\_\_\_\_





Well Number UMW-120

# WELL DEVELOPMENT AND PURGING DATA

Serial No. WDPD-

Page 1 of 1

Project Name Champaign M&P

Project Manager Derek Ingram

Project No. 62403053

Client Company Amerent

Cost Code 024501

Site Name

Site Address 308 N. 5th, Champaign

### Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other 10 well volumes max.

Instruments

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Quanta

Serial No. (if applicable)

Myon  
Myon  
Myon

### Methods of Development

- Pump
- Centrifugal
- Submersible
- Peristaltic
- Other W/axe
- Bailor
- Bottom Valve
- Double Check Valve
- Stainless-steel Kemmerer

### Water Volume Calculation

Initial Depth of Well (feet) 15.0'  
 Initial Depth to Water (feet) 5.065  
 Height of Water Column in Well (feet) 9.93  
 Diameter (inches): Well 2" Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

### Water Disposal

Poly Tank - on site

### Water Removal Data

$ft \times 0.1632 gal/ft = 1.62 gal \times 5 = 8.11 gal$

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative					
4-30-08	15:40	X		15			NA	NA				Very turbid
4-30-08												

Circle the date and time that the development criteria are met.

Comments Purged 10 well volumes - very turbid. Closed well @ 1613

Developer's Signature(s) Jessie Harris

Date 4-30-08

Reviewer

Date



Well Number UMW-30Z

Serial No. WDPD-

# WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1

Project Name Ameren P Campaign

Project Manager Derek Ingram

Project No. 62403053

Client Company Ameren P

Cost Code 024501

Site Name \_\_\_\_\_

Site Address 308 N 5<sup>th</sup> Campaign

### Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

### Water Volume Calculation

Initial Depth of Well (feet) 45.0'  
 Initial Depth to Water (feet) 28.36'  
 Height of Water Column in Well (feet) 16.64  
 Diameter (inches): Well 2" Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

### Methods of Development

- Pump
- Bailor
- Centrifugal
- Bottom Valve
- Submersible
- Double Check Valve
- Peristaltic
- Stainless-steel Kemmerer
- Other Whale

Instruments

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Quanta N/A

Serial No. (if applicable)  
 pH Meter Myron  
 DO Monitor N/A  
 Conductivity Meter Myron  
 Temperature Meter Myron  
 Quanta N/A

Water Disposal Poly tank on site

### Water Removal Data

ft X 0.1632 gal/ft = 2.71 gal X 4 = 10.84 gal

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative					
<u>4/30/08</u>	<u>1138</u>	<u>X</u>				<u>2</u>	<u>N/A</u>	<u>14.5</u>	<u>7.32</u>	<u>1241</u>	<u>-</u>	<u>Turbidity - 200 mpc</u>
	<u>1140</u>	<u> </u>				<u>5</u>	<u> </u>	<u>14.4</u>	<u>7.07</u>	<u>1187</u>	<u>-</u>	<u>Turbidity - 20</u>
	<u>1149</u>	<u> </u>				<u>8</u>	<u> </u>	<u>14.5</u>	<u>7.12</u>	<u>1140</u>	<u>-</u>	<u>" 14</u>
	<u>1153</u>	<u> </u>				<u>11</u>	<u> </u>	<u>14.5</u>	<u>7.13</u>	<u>1123</u>	<u>-</u>	<u>" 8.2</u>
	<u>1157</u>	<u> </u>				<u>14</u>	<u> </u>	<u>14.5</u>	<u>7.10</u>	<u>1106</u>	<u>-</u>	<u>" 7.3</u>
	<u>1202</u>	<u> </u>				<u>17</u>	<u> </u>	<u>14.4</u>	<u>7.09</u>	<u>1089</u>	<u>-</u>	<u>" 6.5</u>
	<u>1208</u>	<u> </u>				<u>20</u>	<u> </u>	<u>14.4</u>	<u>7.14</u>	<u>1086</u>	<u>-</u>	<u>" 6.3</u>
		<u> </u>					<u> </u>					
		<u> </u>					<u> </u>					

Circle the date and time that the development criteria are met.

Comments Arrived @ UMW-30Z at 11:21. Odor observed - Sewer type odor  
at MGP like odor observed.

Developer's Signature(s) Debbie Hoesler

Date 4-30-08

Reviewer \_\_\_\_\_

Date \_\_\_\_\_



# WELL DEVELOPMENT AND PURGING DATA

Well Number MMW-303  
 Serial No. WDPD-

Page 1 of 1

Project Name Champaign MGP Project Manager Derek Ingram Project No. 02408053  
 Client Company AmerenLP Cost Code 024562

Site Name \_\_\_\_\_ Site Address 308 N. 5th, Champaign

**Development Criteria**  
 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Methods of Development**  
 Pump \_\_\_\_\_  
 Bailor \_\_\_\_\_  
 Centrifugal  Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
 Other Whale

**Instruments**  
 pH Meter Myron  
 DO Monitor \_\_\_\_\_  
 Conductivity Meter Myron  
 Temperature Meter Myron  
 Quanta \_\_\_\_\_  
Turbidity - La Motte  
Water Disposal  
Rely tank - on site

**Water Volume Calculation**

Initial Depth of Well (feet) 45.0  
 Initial Depth to Water (feet) 26.06  
 Height of Water Column in Well (feet) 18.94  
 Diameter (inches): Well 2" Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>0.395</u>	<u>3.09</u>	<u>12.40</u>
Gravel Pack	—	—	—
Drilling Fluids	—	—	—
Total	—	—	<u>12.40</u>

**Water Removal Data** ft X 0.1632 gal/ft = gal X 3 = gal

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative					
4/29/08	14:08	X				2	0	NA	NA	—	—	Very turbid, No odor
	14:14	X					2		7.25	1114	—	Turbidity = 100 NTU
	14:20	X					4		7.30	1102	—	" = 26 NTU
	14:26	X		26.435			6		7.49	1028	—	" = 24 NTU
	14:34	X					8		7.57	1045	—	" = 39 NTU
	14:37	X		26.433			10		7.59	1033	—	" = 16.5 NTU
	14:45	X		26.37			12		7.64	1032	—	" = 3.0 NTU
	14:52	X		26.36			14		7.65	1032	—	" = 2.5 NTU
4/29/08												

Circle the date and time that the development criteria are met.

Comments \_\_\_\_\_

Developer's Signature(s) John D. Dobb Date 4/29/08 Reviewer \_\_\_\_\_ Date \_\_\_\_\_



Well Number UMW-304

Serial No. WDPD-

# WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1

Project Name Champaign MGP

Project Manager Derek Ingram

Project No. 62403053

Client Company Amerent

Site Name \_\_\_\_\_

Site Address 308 N. 5th St. Champaign IL

Cost Code 024501

### Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

### Water Volume Calculation

Initial Depth of Well (feet) 45.00  
 Initial Depth to Water (feet) 27.81  
 Height of Water Column in Well (feet) 17.19  
 Diameter (inches): Well 2" Gravel Pack

### Methods of Development

- Pump
- Bailor
- Centrifugal
- Bottom Valve
- Submersible
- Double Check Valve
- Peristaltic
- Stainless-steel Kemmerer
- Other Whale

### Instruments

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Quanta

Serial No. (if applicable) \_\_\_\_\_

MYRON

MYRON

MYRON

Turbidity - LaMotte

Water Disposal \_\_\_\_\_

### Water Removal Data

ft X 0.1632 gal/ft = gal X ft = 11.2 gal

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative					
4/29/08	12:26	X				2	2	15.1	7.17	1115		Turbidity = 100 NTU
4/29/08	12:31	X				4	4	14.5	7.55	1130		" 25
4/29/08	12:36	X			<del>28.50</del>	6	6	14.3	7.57	1121		" 230
4/29/08	12:42	X			28.03	8	8	14.6	7.45	1120		" 80
4/29/08	12:46	X			28.03	10	10	14.4	7.56	1127		" 73
4/29/08	12:50	X			<del>28.50</del>	12	12	14.6	7.59	1124		" 63
4/29/08	12:54	X			28.04	14	14	14.6	7.62	1126		" 5.4

Circle the date and time that the development criteria are met.

Comments Coal tar like odor observed

Developer's Signature(s) \_\_\_\_\_

Leslie Hoover

Date \_\_\_\_\_

4-29-08

Reviewer \_\_\_\_\_

Date \_\_\_\_\_

APPENDIX D

Soil Analytical Data

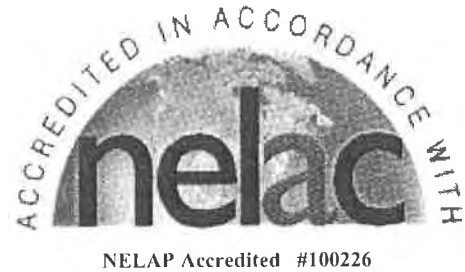
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 09, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign

**WorkOrder:** 08040184

Dear Derek Ingram:

TEKLAB, INC received 6 samples on 4/3/2008 5:30:00 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 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. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040184

**Report Date:** 09-Apr-08

## SAMPLE SUMMARY

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Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040184-001	B-822 @ 7-8 FT	2	4/1/2008 4:11:00 PM
08040184-002	B-822 @ 13-15 FT	4	4/1/2008 5:00:00 PM
08040184-003	B-822 @ 27-28 FT	4	4/1/2008 5:27:00 PM
08040184-004	B-823 @ 3-4 FT	4	4/1/2008 5:35:00 PM
08040184-005	B-823 @ 9-10 FT	4	4/1/2008 5:58:00 PM
08040184-006	B-823 @ 13-15 FT	4	4/1/2008 6:07:00 PM

---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**LabOrder:** 08040184

**Report Date:** 09-Apr-08

## CASE NARRATIVE

**Cooler Receipt Temp:** 2.4 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040184

Lab ID: 08040184-001

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-822 @ 7-8 FT

Collection Date: 4/1/2008 4:11:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		26.6	%	1	4/4/2008	TWV
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		73.4	%	1	4/4/2008	TWV
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.005		ND	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Acenaphthylene	NELAP	0.005		0.213	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Anthracene	NELAP	0.005		0.010	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Benzo(a)anthracene	NELAP	0.005		0.018	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Benzo(a)pyrene	NELAP	0.005		0.029	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.005		0.053	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.005		0.054	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.005		0.018	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Chrysene	NELAP	0.005		0.017	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.005		0.015	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Fluoranthene	NELAP	0.005		0.019	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Fluorene	NELAP	0.005		0.007	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.005		0.045	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Naphthalene	NELAP	0.005		0.012	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Phenanthrene	NELAP	0.005		0.008	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Pyrene	NELAP	0.005		0.030	mg/Kg-dry	1	4/9/2008 5:21:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		50.7	%REC	1	4/9/2008 5:21:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		61.9	%REC	1	4/9/2008 5:21:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.7	%REC	1	4/9/2008 5:21:00 AM	TDN
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	6.4		ND	µg/Kg-dry	1	4/9/2008 4:40:00 AM	GEK
Ethylbenzene	NELAP	32.1		ND	µg/Kg-dry	1	4/9/2008 4:40:00 AM	GEK
Toluene	NELAP	32.1		ND	µg/Kg-dry	1	4/9/2008 4:40:00 AM	GEK
Xylenes, Total	NELAP	32.1		ND	µg/Kg-dry	1	4/9/2008 4:40:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		99.3	%REC	1	4/9/2008 4:40:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		97.6	%REC	1	4/9/2008 4:40:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		102.3	%REC	1	4/9/2008 4:40:00 AM	GEK
Surr: Toluene-d8		80.1-122		97.6	%REC	1	4/9/2008 4:40:00 AM	GEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040184

Lab ID: 08040184-002

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-822 @ 13-15 FT

Collection Date: 4/1/2008 5:00:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.8	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.2	%	1	4/4/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.45		9.99	mg/Kg-dry	1	4/7/2008 8:23:17 PM	LAL
Chromium	NELAP	0.98		18.5	mg/Kg-dry	1	4/7/2008 8:23:17 PM	LAL
Lead	NELAP	3.92		12.8	mg/Kg-dry	1	4/7/2008 8:23:17 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Naphthalene	NELAP	0.004		0.007	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:44:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		57.3	%REC	1	4/7/2008 6:44:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		62.1	%REC	1	4/7/2008 6:44:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.3	%REC	1	4/7/2008 6:44:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		3.8	µg/Kg-dry	1	4/9/2008 4:17:00 AM	JSA
Ethylbenzene	NELAP	3.9	J	2.6	µg/Kg-dry	1	4/9/2008 4:17:00 AM	JSA
Toluene	NELAP	3.9	J	3.2	µg/Kg-dry	1	4/9/2008 4:17:00 AM	JSA
Xylenes, Total	NELAP	3.9		4.9	µg/Kg-dry	1	4/9/2008 4:17:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		74.7	%REC	1	4/9/2008 4:17:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		107.7	%REC	1	4/9/2008 4:17:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		76.2	%REC	1	4/9/2008 4:17:00 AM	JSA
Surr: Toluene-d8		80.1-122		101.4	%REC	1	4/9/2008 4:17:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.48	J	0.25	mg/Kg-dry	1	4/7/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040184

**Lab ID:** 08040184-002

**Report Date:** 09-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-822 @ 13-15 FT

**Collection Date:** 4/1/2008 5:00:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.52		<b>Interference</b>	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040184  
**Lab ID:** 08040184-003  
**Report Date:** 09-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-822 @ 27-28 FT  
**Collection Date:** 4/1/2008 5:27:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.3	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.7	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 7:19:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		48.3	%REC	1	4/7/2008 7:19:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		56.5	%REC	1	4/7/2008 7:19:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.7	%REC	1	4/7/2008 7:19:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		2.5	µg/Kg-dry	1	4/8/2008 12:43:00 PM	JSA
Ethylbenzene	NELAP	5.6	J	3.2	µg/Kg-dry	1	4/8/2008 12:43:00 PM	JSA
Toluene	NELAP	5.6	J	2.5	µg/Kg-dry	1	4/8/2008 12:43:00 PM	JSA
Xylenes, Total	NELAP	5.6	J	2.0	µg/Kg-dry	1	4/8/2008 12:43:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		97.6	%REC	1	4/8/2008 12:43:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		89.9	%REC	1	4/8/2008 12:43:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		95.8	%REC	1	4/8/2008 12:43:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.7	%REC	1	4/8/2008 12:43:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040184  
**Lab ID:** 08040184-004  
**Report Date:** 09-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-823 @ 3-4 FT  
**Collection Date:** 4/1/2008 5:35:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		26.8	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		73.2	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.005		ND	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Acenaphthylene	NELAP	0.005		0.045	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Anthracene	NELAP	0.005		0.010	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Benzo(a)anthracene	NELAP	0.005		0.057	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Benzo(a)pyrene	NELAP	0.005		0.067	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.005		0.065	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.005		0.059	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.005		0.060	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Chrysene	NELAP	0.005		0.058	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.005		0.018	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Fluoranthene	NELAP	0.005		0.063	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Fluorene	NELAP	0.005		ND	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.005		0.057	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Naphthalene	NELAP	0.005		0.008	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Phenanthrene	NELAP	0.005		0.032	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Pyrene	NELAP	0.005		0.072	mg/Kg-dry	1	4/7/2008 2:43:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	1	4/7/2008 2:43:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		49.9	%REC	1	4/7/2008 2:43:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.1	%REC	1	4/7/2008 2:43:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.4		ND	µg/Kg-dry	1	4/8/2008 1:13:00 PM	JSA
Ethylbenzene	NELAP	6.8		ND	µg/Kg-dry	1	4/8/2008 1:13:00 PM	JSA
Toluene	NELAP	6.8	J	1.4	µg/Kg-dry	1	4/8/2008 1:13:00 PM	JSA
Xylenes, Total	NELAP	6.8	J	2.6	µg/Kg-dry	1	4/8/2008 1:13:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		107.5	%REC	1	4/8/2008 1:13:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.0	%REC	1	4/8/2008 1:13:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		100.4	%REC	1	4/8/2008 1:13:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.4	%REC	1	4/8/2008 1:13:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040184

Lab ID: 08040184-005

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-823 @ 9-10 FT

Collection Date: 4/1/2008 5:58:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.3	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.7	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.022		ND	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Acenaphthylene	NELAP	0.022		0.372	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Anthracene	NELAP	0.022		0.060	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Benzo(a)anthracene	NELAP	0.022		0.484	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Benzo(a)pyrene	NELAP	0.022		0.732	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.022		0.350	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.022		0.337	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.022		0.368	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Chrysene	NELAP	0.022		0.494	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.022		0.085	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Fluoranthene	NELAP	0.022		0.467	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Fluorene	NELAP	0.022		0.022	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.022		0.259	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Naphthalene	NELAP	0.022		ND	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Phenanthrene	NELAP	0.022		ND	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Pyrene	NELAP	0.022		1.08	mg/Kg-dry	5	4/7/2008 3:10:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		56.9	%REC	5	4/7/2008 3:10:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		55.9	%REC	5	4/7/2008 3:10:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		77.8	%REC	5	4/7/2008 3:10:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		2.9	µg/Kg-dry	1	4/8/2008 9:15:00 PM	JSA
Ethylbenzene	NELAP	6.2		10.8	µg/Kg-dry	1	4/8/2008 9:15:00 PM	JSA
Toluene	NELAP	6.2	J	5.8	µg/Kg-dry	1	4/8/2008 9:15:00 PM	JSA
Xylenes, Total	NELAP	6.2		32.6	µg/Kg-dry	1	4/8/2008 9:15:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		95.5	%REC	1	4/8/2008 9:15:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		95.1	%REC	1	4/8/2008 9:15:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		102.1	%REC	1	4/8/2008 9:15:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.2	%REC	1	4/8/2008 9:15:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040184

Lab ID: 08040184-006

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-823 @ 13-15 FT

Collection Date: 4/1/2008 6:07:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		14.2	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		85.8	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.020		0.160	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Acenaphthylene	NELAP	0.020		0.471	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Anthracene	NELAP	0.020		0.602	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Benzo(a)anthracene	NELAP	0.020		0.559	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Benzo(a)pyrene	NELAP	0.020		0.570	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.020		0.279	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.020		0.247	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.020		0.297	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Chrysene	NELAP	0.020		0.524	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.020		0.064	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Fluoranthene	NELAP	0.020		0.983	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Fluorene	NELAP	0.020		0.516	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.020		0.193	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Naphthalene	NELAP	0.020		ND	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Phenanthrene	NELAP	0.020		2.48	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Pyrene	NELAP	0.020		1.49	mg/Kg-dry	5	4/7/2008 3:37:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.9	%REC	5	4/7/2008 3:37:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		52.9	%REC	5	4/7/2008 3:37:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.9	%REC	5	4/7/2008 3:37:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.4	µg/Kg-dry	1	4/9/2008 3:08:00 PM	JSA
Ethylbenzene	NELAP	4.4		5.8	µg/Kg-dry	1	4/9/2008 3:08:00 PM	JSA
Toluene	NELAP	4.4		4.9	µg/Kg-dry	1	4/9/2008 3:08:00 PM	JSA
Xylenes, Total	NELAP	4.4		8.7	µg/Kg-dry	1	4/9/2008 3:08:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		81.3	%REC	1	4/9/2008 3:08:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		84.7	%REC	1	4/9/2008 3:08:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		104.8	%REC	1	4/9/2008 3:08:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.1	%REC	1	4/9/2008 3:08:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign  
**Lab Order:** 08040184  
**Report Date:** 09-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040184-001A	B-822 @ 7-8 FT	4/1/2008	Solid	ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/9/2008
08040184-001B				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040184-002A	B-822 @ 13-15 FT			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3050B, 6010B, Metals by ICP	4/4/2008	4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
				SW-846 9010B, 9014	4/4/2008	4/7/2008
				SW-846 9014A	4/4/2008	4/8/2008
08040184-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040184-003A	B-822 @ 27-28 FT			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040184-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040184-004A	B-823 @ 3-4 FT			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign  
**Lab Order:** 08040184  
**Report Date:** 09-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040184-004A	B-823 @ 3-4 FT	4/1/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040184-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040184-005A	B-823 @ 9-10 FT			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040184-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040184-006A	B-823 @ 13-15 FT			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040184-006D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with, and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

		Qualifiers			
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference		
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite		
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range		
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded		
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited		

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign

TestCode: I\_ACN\_S\_MT

Lab Order: 08040184

Report Date: 09-Apr-08

Sample ID: MB-43868	SampType: MBLK	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106511							
Client ID: ZZZZZZ	Batch ID: 43868	SOP2092	Analysis Date: 4/8/2008	SeqNo: 1902016							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Amenable to Chlorination	< 0.50	0.50									

Sample ID: LCS-43868	SampType: LCS	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106511							
Client ID: ZZZZZZ	Batch ID: 43868	SOP2092	Analysis Date: 4/8/2008	SeqNo: 1902017							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Amenable to Chlorination	9.86	0.50	10.00	0	98.6	85	115				

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TCN\_S\_MT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040184      Report Date: 09-Apr-08

Sample ID: MB-43867	SampType: MBLK	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471	
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900925	
Analyte	Result	PQL	SPK value	SPK Ref Val	Qual
Cyanide	< 0.01	0.01			
		%REC	LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit

Sample ID: LCS-43867	SampType: LCS	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471	
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900926	
Analyte	Result	PQL	SPK value	SPK Ref Val	Qual
Cyanide	0.20	0.01	0.2000	0	
		%REC	LowLimit	HighLimit	RPD Ref Val
			85	115	
					%RPD
					RPDLimit

Sample ID: LCSD-43867	SampType: LCSD	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471	
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900927	
Analyte	Result	PQL	SPK value	SPK Ref Val	Qual
Cyanide	0.19	0.01	0.2000	0	
		%REC	LowLimit	HighLimit	RPD Ref Val
			85	115	
					%RPD
					RPDLimit

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040184      Report Date: 09-Apr-08

TestCode: I\_TS\_M\_MT

Sample ID: LCS-R106413	SampType: LCS	Units: %	Prep Date:	RunNo: 106413
Client ID: ZZZZZZ	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899672
Analyte	Result	PQL	SPK value	SPK Ref Val
	1.0	0.1	1.000	0
Total Solids			%REC	HighLimit
			100	90
			%RPD	RPDLimit
				110
				Qual

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 106413
Client ID: ZZZZZZ	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899673
Analyte	Result	PQL	SPK value	SPK Ref Val
	1.0	0.1	1.000	0
Total Solids			%REC	HighLimit
			100	90
			%RPD	RPDLimit
				110
				Qual

Sample ID: 08040184-002ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106413
Client ID: B-822 @ 13-15 FTDU	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899680
Analyte	Result	PQL	SPK value	SPK Ref Val
	89.2	0.1		
Total Solids			%REC	HighLimit
				88.22
			%RPD	RPDLimit
				1.08
				15
				Qual

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040184 Report Date: 09-Apr-08

Sample ID: MB-43839	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/4/2008	RunNo: 106443
Client ID: ZZZZZZ	Batch ID: 43839	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901335

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-43839	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/4/2008	RunNo: 106443
Client ID: ZZZZZZ	Batch ID: 43839	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901336

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	204	2.50	200.0	0	101.9	85	115				
Chromium	20.8	1.00	20.00	0	103.8	85	115				
Lead	52.5	4.00	50.00	0	105.0	85	115				

Sample ID: 08040184-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/4/2008	RunNo: 106443
Client ID: B-822 @ 13-15 FTM	Batch ID: 43839	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901361

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	200	2.45	196.1	9.990	96.9	75	125				
Chromium	38.0	0.98	19.61	18.49	99.6	75	125				
Lead	59.0	3.92	49.02	12.81	94.3	75	125				

Sample ID: 08040184-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/4/2008	RunNo: 106443
Client ID: B-822 @ 13-15 FTM	Batch ID: 43839	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901362

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	197	2.45	196.1	9.990	95.5	75	125	200.0	1.43	20	
Chromium	37.6	0.98	19.61	18.49	97.6	75	125	38.02	1.06	20	
Lead	57.5	3.92	49.02	12.81	91.1	75	125	59.03	2.68	20	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040184 Report Date: 09-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: MB-43881	SampType: MBLK	Units: mg/Kg	RunNo: 106478
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	SeqNo: 1901585
Analyte	Result	PQL	SPK value
			SPK Ref Val
		%REC	LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.123		0.1670		73.9	17.5	123				
Surr: Nitrobenzene-d5	0.114		0.1670		68.1	35	105				
Surr: p-Terphenyl-d14	0.124		0.1670		74.5	53.6	122				

Sample ID: LCS-43881	SampType: LCS	Units: mg/Kg	RunNo: 106478
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	SeqNo: 1901586
Analyte	Result	PQL	SPK value
			SPK Ref Val
		%REC	LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.110	0.003	0.1670	0	66.1	56.3	115				
Acenaphthylene	0.134	0.003	0.1670	0	80.5	60.3	143				
Anthracene	0.106	0.003	0.1670	0	63.2	52.1	109				
Benzo(a)anthracene	0.109	0.003	0.1670	0	65.0	52.8	112				
Benzo(a)pyrene	0.111	0.003	0.1670	0	66.6	40.8	127				
Benzo(b)fluoranthene	0.126	0.003	0.1670	0	75.3	50.1	150				
Benzo(g,h,i)perylene	0.123	0.003	0.1670	0	73.6	52.8	145				

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040184      Report Date: 09-Apr-08

Sample ID: LCS-43881	SampType: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1901586							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.128	0.003	0.1670	0	76.9	52	153				
Chrysene	0.120	0.003	0.1670	0	71.6	60.8	128				
Dibenzo(a,h)anthracene	0.122	0.003	0.1670	0	73.1	54.9	150				
Fluoranthene	0.114	0.003	0.1670	0	68.4	58.7	125				
Fluorene	0.116	0.003	0.1670	0	69.6	57.8	125				
Indeno(1,2,3-cd)pyrene	0.120	0.003	0.1670	0	71.9	52	147				S
Naphthalene	0.091	0.003	0.1670	0	54.7	54.8	113				
Phenanthrene	0.115	0.003	0.1670	0	68.8	60.4	121				
Pyrene	0.117	0.003	0.1670	0	70.2	57.9	129				
Surr: 2-Fluorobiphenyl	0.115		0.1670		69.1	35.3	113				
Surr: Nitrobenzene-d5	0.106		0.1670		63.7	33.9	108				
Surr: p-Terphenyl-d14	0.118		0.1670		70.7	58.4	122				



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040184      Report Date: 09-Apr-08

TestCode: V\_BTEX\_S

Sample ID: LCS-G080408-1	SampType: LCS	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902238							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.2	1.0	50.00	0	100.3	75	123				
Toluene	50.4	5.0	50.00	0	100.7	77.3	117				
Ethylbenzene	51.8	5.0	50.00	0	103.6	80.8	118				
Xylenes, Total	104	5.0	100.0	0	104.4	78.5	121				
Surr: 1,2-Dichloroethane-d4	50.1		50.00		100.1	61	128				
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	78.2	117				
Surr: Dibromofluoromethane	51.7		50.00		103.4	66.6	130				
Surr: Toluene-d8	49.7		50.00		99.4	80.1	122				

Sample ID: LCSD-G080408-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902239							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.2	1.0	50.00	0	100.3	75	123	50.15	0	20	
Toluene	50.2	5.0	50.00	0	100.3	77.3	117	50.35	0.358	20	
Ethylbenzene	52.0	5.0	50.00	0	104.1	80.8	118	51.78	0.482	20	
Xylenes, Total	103	5.0	100.0	0	103.4	78.5	121	104.4	0.963	20	
Surr: 1,2-Dichloroethane-d4	51.1		50.00		102.2	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.1		50.00		98.2	78.2	117		0	0	
Surr: Dibromofluoromethane	50.9		50.00		101.9	66.6	130		0	0	
Surr: Toluene-d8	49.8		50.00		99.6	80.1	122		0	0	

Sample ID: MBLK-G080408-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902241							
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									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040184 Report Date: 09-Apr-08

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-G080408-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106524</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43917</b>	<b>SW5035</b>	Analysis Date: <b>4/8/2008</b>	SeqNo: <b>1902241</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	48.5		50.00		97.1	61	128				
Surr: 4-Bromofluorobenzene	47.9		50.00		95.8	78.2	117				
Surr: Dibromofluoromethane	50.4		50.00		100.9	66.6	130				
Surr: Toluene-d8	49.2		50.00		98.3	80.1	122				

Sample ID: <b>LCS-G080408-2</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903051</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.2	1.0	50.00	0	94.5	75	123				
Toluene	46.8	5.0	50.00	0	93.5	77.3	117				
Ethylbenzene	48.2	5.0	50.00	0	96.4	80.8	118				
Xylenes, Total	95.6	5.0	100.00	0	95.6	78.5	121				
Surr: 1,2-Dichloroethane-d4	48.7		50.00		97.3	61	128				
Surr: 4-Bromofluorobenzene	49.7		50.00		99.4	78.2	117				
Surr: Dibromofluoromethane	49.5		50.00		98.9	66.6	130				
Surr: Toluene-d8	48.8		50.00		97.7	80.1	122				

Sample ID: <b>LCSD-G080408-2</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903052</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.2	1.0	50.00	0	98.4	75	123	47.24	4.02	20	
Toluene	48.0	5.0	50.00	0	95.9	77.3	117	46.77	2.53	20	
Ethylbenzene	49.2	5.0	50.00	0	98.5	80.8	118	48.22	2.09	20	
Xylenes, Total	98.5	5.0	100.00	0	98.5	78.5	121	95.64	2.96	20	
Surr: 1,2-Dichloroethane-d4	47.8		50.00		95.6	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.5		50.00		99.1	78.2	117		0	0	
Surr: Dibromofluoromethane	49.8		50.00		99.5	66.6	130		0	0	
Surr: Toluene-d8	48.7		50.00		97.4	80.1	122		0	0	

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040184      Report Date: 09-Apr-08

Sample ID: <b>MBLK-G080408-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903054</b>							
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	47.0		50.00		93.9	61	128				
Surr: 4-Bromofluorobenzene	48.8		50.00		97.6	78.2	117				
Surr: Dibromofluoromethane	49.2		50.00		98.5	66.6	130				
Surr: Toluene-d8	49.5		50.00		99.0	80.1	122				

Sample ID: <b>LCS-G080409-1</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106598</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43954</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903869</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	48.5	1.0	50.00	0	97.0	75	123				
Toluene	48.3	5.0	50.00	0	96.7	77.3	117				
Ethylbenzene	50.7	5.0	50.00	0	101.4	80.8	118				
Xylenes, Total	101	5.0	100.0	0	100.9	78.5	121				
Surr: 1,2-Dichloroethane-d4	46.7		50.00		93.3	61	128				
Surr: 4-Bromofluorobenzene	49.4		50.00		98.8	78.2	117				
Surr: Dibromofluoromethane	48.8		50.00		97.6	66.6	130				
Surr: Toluene-d8	49.4		50.00		98.9	80.1	122				

Sample ID: <b>LCSD-G080409-1</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106598</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43954</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903870</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	52.0	1.0	50.00	0	103.9	75	123	48.50	6.91	20	
Toluene	51.7	5.0	50.00	0	103.4	77.3	117	48.33	6.74	20	
Ethylbenzene	53.6	5.0	50.00	0	107.2	80.8	118	50.72	5.48	20	
Xylenes, Total	107	5.0	100.0	0	106.7	78.5	121	100.9	5.65	20	

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040184      Report Date: 09-Apr-08

Sample ID: LCSD-G080409-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/9/2008	RunNo: 106598
Client ID: ZZZZZZ	Batch ID: 43954	SW5035	Analysis Date: 4/9/2008	SeqNo: 1903870

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	48.2		50.00		96.5	61	128		0	0	0
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	78.2	117		0	0	0
Surr: Dibromofluoromethane	49.5		50.00		99.0	66.6	130		0	0	0
Surr: Toluene-d8	48.6		50.00		97.2	80.1	122		0	0	0

Sample ID: MBLK-G080409-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/9/2008	RunNo: 106598
Client ID: ZZZZZZ	Batch ID: 43954	SW5035	Analysis Date: 4/9/2008	SeqNo: 1903871

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	46.9		50.00		93.9	61	128				
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	78.2	117				
Surr: Dibromofluoromethane	47.9		50.00		95.8	66.6	130				
Surr: Toluene-d8	49.0		50.00		98.1	80.1	122				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Campaign

Lab Order: 08040184

Report Date: 09-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S\_5030

Sample ID: LCS-F080408-2	SampType: LCS	Units: µg/Kg	Prep Date: 4/9/2008	RunNo: 106560
Client ID: ZZZZZZ	Batch ID: 43939	SW5030	Analysis Date: 4/8/2008	SeqNo: 1903098

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.1	1.0	50.00	0	100.2	75	123				
Toluene	49.3	5.0	50.00	0	98.6	77.3	117				
Ethylbenzene	51.2	5.0	50.00	0	102.5	80.8	118				
Xylenes, Total	103	5.0	100.0	0	103.2	78.5	121				
Surr: 1,2-Dichloroethane-d4	48.0		50.00		96.0	61	128				
Surr: 4-Bromofluorobenzene	50.2		50.00		100.4	78.2	117				
Surr: Dibromofluoromethane	49.6		50.00		99.2	66.6	130				
Surr: Toluene-d8	48.4		50.00		96.8	80.1	122				

Sample ID: LCS-D-F080408-2	SampType: LCS-D	Units: µg/Kg	Prep Date: 4/9/2008	RunNo: 106560
Client ID: ZZZZZZ	Batch ID: 43939	SW5030	Analysis Date: 4/8/2008	SeqNo: 1903099

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.5	1.0	50.00	0	101.0	75	123	50.09	0.835	20	
Toluene	49.4	5.0	50.00	0	98.9	77.3	117	49.32	0.243	20	
Ethylbenzene	50.9	5.0	50.00	0	101.8	80.8	118	51.25	0.666	20	
Xylenes, Total	102	5.0	100.0	0	102.4	78.5	121	103.2	0.827	20	
Surr: 1,2-Dichloroethane-d4	49.8		50.00		99.6	61	128		0	0	
Surr: 4-Bromofluorobenzene	50.2		50.00		100.4	78.2	117		0	0	
Surr: Dibromofluoromethane	49.8		50.00		99.7	66.6	130		0	0	
Surr: Toluene-d8	48.4		50.00		96.9	80.1	122		0	0	

Sample ID: MBLK-F080408-2	SampType: MBLK	Units: µg/Kg	Prep Date: 4/9/2008	RunNo: 106560
Client ID: ZZZZZZ	Batch ID: 43939	SW5030	Analysis Date: 4/9/2008	SeqNo: 1903101

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									

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S\_5030

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040184      Report Date: 09-Apr-08

Sample ID: <b>MBLK-F080408-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106560</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43939</b>	<b>SW5030</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903101</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichloroethane-d4	51.0		50.00		102.0	61	128				
Surr: 4-Bromofluorobenzene	49.6		50.00		99.1	78.2	117				
Surr: Dibromofluoromethane	51.3		50.00		102.6	66.6	130				
Surr: Toluene-d8	48.3		50.00		96.6	80.1	122				

Sample ID: <b>08040184-001BMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106560</b>							
Client ID: <b>B-822 @ 7-8 FTMS</b>	Batch ID: <b>43939</b>	<b>SW5030</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903103</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	302	6.5	324.4	0	93.2	59.8	141				
Toluene	305	32.4	324.4	0	93.9	62.4	138				
Ethylbenzene	306	32.4	324.4	0	94.3	64.8	141				
Xylenes, Total	612	32.4	648.8	0	94.3	51.2	157				
Surr: 1,2-Dichloroethane-d4	339		324.4		104.5	61	128				
Surr: 4-Bromofluorobenzene	325		324.4		100.1	78.2	117				
Surr: Dibromofluoromethane	337		324.4		104.0	66.6	130				
Surr: Toluene-d8	316		324.4		97.4	80.1	122				

Sample ID: <b>08040184-001BMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106560</b>							
Client ID: <b>B-822 @ 7-8 FTMSD</b>	Batch ID: <b>43939</b>	<b>SW5030</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903104</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	309	6.7	333.9	0	92.4	59.8	141	302.5	2.04	20	
Toluene	313	33.4	333.9	0	93.8	62.4	138	304.5	2.86	20	
Ethylbenzene	318	33.4	333.9	0	95.3	64.8	141	305.8	3.97	20	
Xylenes, Total	638	33.4	667.8	0	95.5	51.2	157	611.8	4.20	20	
Surr: 1,2-Dichloroethane-d4	331		333.9		99.2	61	128		0	0	
Surr: 4-Bromofluorobenzene	332		333.9		99.3	78.2	117		0	0	
Surr: Dibromofluoromethane	340		333.9		101.7	66.6	130		0	0	
Surr: Toluene-d8	323		333.9		96.8	80.1	122		0	0	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**RECEIVING CHECK LIST****Project:** A831-735002-012901-225/IP Champaign**Lab Order:** 08040184**Report Date:** 09-Apr-08**Carrier:** Derrek Ingram**Received By:** AMH**Completed by:****On:**

04-Apr-08

Amanda M. Harris

**Reviewed by:****On:**

04-Apr-08

Marvin L. Darling

Pages to follow: Chain of custody Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 2.4
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.

No volatile vials received for B-822 (7-8 ft). Per Derek Ingram, proceed with analysis using method 5030. Combine any samples that have depths within three ft. Round sample ID's to nearest whole foot. AMH 4/3/08



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08040184  
COC Serial No. **B** 08862

Project Name: Ameren IP Campaign Project Mgr.: Derek Ingram  
 Project Number: 62403D53 Cost Code: D24501  
 Sampler(s): L. Hoxier

Laboratory Name: Teklab Location: Collinsville IL

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers	Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
			Soil	Water	Air	Wipes				
B-822 (7.5'-8')	4-1	1611	X			4	BTK 82208 BTK 82209 Metals * Cyanide 9014 For D294-87 PH 9015C	*Metals - arsenic, chromium, 002 lead	001 002	
B-822 (14'-15')	4-1	1700	X			2				
B-822 (13'-13.5')	4-1	1700	X			1				
B-822 (27.5'-28.5')	4-1	1727	X			5			003	
B-823 (3'-3.5')	4-1	1735	X			5			004	
B-823 (9'-9.5')	4-1	1758	X			5			005	
B-823 (13.5'-14.5')	4-1	1807	X			5			006	
<p>per D. Ingram combined samples depths written the name B.T. sub depths to nearest inch 4/3/08 foot.</p>										

Laboratory Temperature upon Receipt: 2.4

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics . . . . . Hydrochloric acid (HCl)
- VOC Soil (5035) . . . . . Sodium Bisulfate/Methanol
- TPH . . . . . Hydrochloric acid and/or Sulfuric acid
- Metals . . . . . Nitric acid (HNO<sub>3</sub>)
- Cyanide . . . . . Sodium hydroxide (NaOH)
- Other (Specify) . . . . .

**Lab Directives:**  Rush  5 Days  STD  Other

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Derek Ingram Date 4-3-08 Time 1400

Signature Derek Ingram Date 4/3/08 Time 1730

**Received by:** Signature Derek Ingram Date 4/3/08 Time 1400

Signature Derek Ingram Date 4/3/08 Time 1730



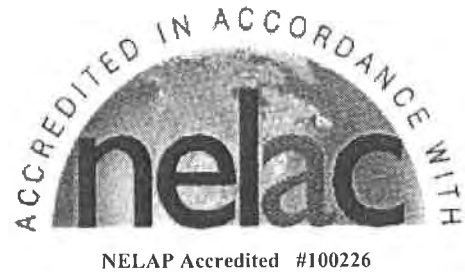
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 09, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign

**WorkOrder:** 08040185

Dear Derek Ingram:

TEKLAB, INC received 9 samples on 4/3/2008 5:30:00 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 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,

A handwritten signature in cursive script that reads "Heather A. White".

Heather A. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**Project:** A831-735002-012901-225/IP Champaign**Lab Order:** 08040185**Report Date:** 09-Apr-08

## SAMPLE SUMMARY

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040185-001	B-829 @ 2-3 ft	4	4/2/2008 1:38:00 PM
08040185-002	B-829 @ 6-7 ft	4	4/2/2008 2:04:00 PM
08040185-003	B-829 @ 21-22 ft	4	4/2/2008 3:24:00 PM
08040185-004	B-833 @ 2-3 ft	4	4/2/2008 4:20:00 PM
08040185-005	B-833 @ 9-10 ft	4	4/2/2008 4:45:00 PM
08040185-006	B-833 @ 10-12 ft	4	4/2/2008 5:20:00 PM
08040185-007	B-833 @ 25-26 ft	4	4/2/2008 6:10:00 PM
08040185-008	B-833 @ 31-32 ft	4	4/2/2008 6:30:00 PM
08040185-009	B-833 @ 10-12ft DUP	4	4/2/2008 5:20:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**LabOrder:** 08040185

**Report Date:** 09-Apr-08

## CASE NARRATIVE

**Cooler Receipt Temp:** 2.8 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040185

Lab ID: 08040185-001

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-829 @ 2-3 ft

Collection Date: 4/2/2008 1:38:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.6	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.4	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.043		0.189	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Acenaphthylene	NELAP	0.043		0.318	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Anthracene	NELAP	0.043		0.331	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Benzo(a)anthracene	NELAP	0.043		2.16	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Benzo(a)pyrene	NELAP	0.043		2.25	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.043		2.80	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.043		1.29	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.043		1.11	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Chrysene	NELAP	0.043		2.12	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.043		0.422	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Fluoranthene	NELAP	0.043		2.92	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Fluorene	NELAP	0.043		0.172	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.043		1.28	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Naphthalene	NELAP	0.043		0.074	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Phenanthrene	NELAP	0.043		1.16	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Pyrene	NELAP	0.043		2.69	mg/Kg-dry	10	4/8/2008 3:45:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.9	%REC	10	4/8/2008 3:45:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		53.9	%REC	10	4/8/2008 3:45:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.9	%REC	10	4/8/2008 3:45:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.3		53.3	µg/Kg-dry	1	4/8/2008 1:42:00 PM	JSA
Ethylbenzene	NELAP	6.5	J	1.3	µg/Kg-dry	1	4/8/2008 1:42:00 PM	JSA
Toluene	NELAP	6.5	J	2.8	µg/Kg-dry	1	4/8/2008 1:42:00 PM	JSA
Xylenes, Total	NELAP	6.5	J	6.0	µg/Kg-dry	1	4/8/2008 1:42:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.9	%REC	1	4/8/2008 1:42:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		84.6	%REC	1	4/8/2008 1:42:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		97.8	%REC	1	4/8/2008 1:42:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.3	%REC	1	4/8/2008 1:42:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040185

Lab ID: 08040185-002

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-829 @ 6-7 ft

Collection Date: 4/2/2008 2:04:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.0	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.0	%	1	4/4/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.36		8.84	mg/Kg-dry	1	4/7/2008 10:29:03 PM	LAL
Chromium	NELAP	0.94		22.9	mg/Kg-dry	1	4/7/2008 10:29:03 PM	LAL
Lead	NELAP	3.77		14.9	mg/Kg-dry	1	4/7/2008 10:29:03 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.008	S	2.00	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Acenaphthylene	NELAP	0.008		0.240	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Anthracene	NELAP	0.008	S	0.975	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Benzo(a)anthracene	NELAP	0.008	S	0.673	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Benzo(a)pyrene	NELAP	0.008		0.545	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.008		0.513	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.008		0.227	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.008		0.179	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Chrysene	NELAP	0.008	S	0.625	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.008		0.071	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Fluoranthene	NELAP	0.008	S	1.68	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Fluorene	NELAP	0.008	S	1.38	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.008		0.194	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Naphthalene	NELAP	0.008		0.063	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Phenanthrene	NELAP	0.008	S	4.10	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Pyrene	NELAP	0.008	S	2.03	mg/Kg-dry	2	4/8/2008 6:44:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		75.4	%REC	2	4/8/2008 6:44:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		72.7	%REC	2	4/8/2008 6:44:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		75.0	%REC	2	4/8/2008 6:44:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	26.5		253	µg/Kg-dry	12.5	4/9/2008 9:52:00 AM	JSA
Ethylbenzene	NELAP	132	J	66	µg/Kg-dry	12.5	4/9/2008 9:52:00 AM	JSA
Toluene	NELAP	132		ND	µg/Kg-dry	12.5	4/9/2008 9:52:00 AM	JSA
Xylenes, Total	NELAP	132	J	61	µg/Kg-dry	12.5	4/9/2008 9:52:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	130.5	%REC	12.5	4/9/2008 9:52:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		106.7	%REC	12.5	4/9/2008 9:52:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130	S	154.7	%REC	12.5	4/9/2008 9:52:00 AM	JSA
Surr: Toluene-d8		80.1-122		121.9	%REC	12.5	4/9/2008 9:52:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.48		1.02	mg/Kg-dry	1	4/7/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040185  
**Lab ID:** 08040185-002  
**Report Date:** 09-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-829 @ 6-7 ft  
**Collection Date:** 4/2/2008 2:04:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.60		Interference	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Matrix spike did not recover within control limits because of sample composition.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040185

Lab ID: 08040185-003

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-829 @ 21-22 ft

Collection Date: 4/2/2008 3:24:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.1	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.9	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:22:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		60.5	%REC	1	4/7/2008 12:22:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		63.5	%REC	1	4/7/2008 12:22:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.5	%REC	1	4/7/2008 12:22:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	87.3		14000	µg/Kg-dry	50	4/9/2008 9:22:00 AM	JSA
Ethylbenzene	NELAP	5.6		ND	µg/Kg-dry	1	4/8/2008 2:13:00 PM	JSA
Toluene	NELAP	5.6	J	2.3	µg/Kg-dry	1	4/8/2008 2:13:00 PM	JSA
Xylenes, Total	NELAP	5.6	J	2.1	µg/Kg-dry	1	4/8/2008 2:13:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	60.0	%REC	1	4/8/2008 2:13:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		81.7	%REC	1	4/8/2008 2:13:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.7	%REC	1	4/8/2008 2:13:00 PM	JSA
Surr: Toluene-d8		80.1-122		91.0	%REC	1	4/8/2008 2:13:00 PM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040185

Client Sample ID: B-833 @ 2-3 ft

Lab ID: 08040185-004

Collection Date: 4/2/2008 4:20:00 PM

Report Date: 09-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		16.6	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		83.4	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.402		ND	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Acenaphthylene	NELAP	0.402		4.15	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Anthracene	NELAP	0.402		1.59	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Benzo(a)anthracene	NELAP	0.402		5.10	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Benzo(a)pyrene	NELAP	0.402		8.10	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.402		9.26	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.402		7.21	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.402		2.63	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Chrysene	NELAP	0.402		6.02	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.402		1.39	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Fluoranthene	NELAP	0.402		7.53	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Fluorene	NELAP	0.402		0.528	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.402		5.23	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Naphthalene	NELAP	0.402	J	0.37	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Phenanthrene	NELAP	0.402		3.80	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Pyrene	NELAP	0.402		12.3	mg/Kg-dry	100	4/8/2008 1:22:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		79.8	%REC	100	4/8/2008 1:22:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		20.0	%REC	100	4/8/2008 1:22:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		59.9	%REC	100	4/8/2008 1:22:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		17.0	µg/Kg-dry	1	4/8/2008 2:43:00 PM	JSA
Ethylbenzene	NELAP	6.0		ND	µg/Kg-dry	1	4/8/2008 2:43:00 PM	JSA
Toluene	NELAP	6.0	J	2.5	µg/Kg-dry	1	4/8/2008 2:43:00 PM	JSA
Xylenes, Total	NELAP	6.0	J	2.1	µg/Kg-dry	1	4/8/2008 2:43:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		108.5	%REC	1	4/8/2008 2:43:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		90.0	%REC	1	4/8/2008 2:43:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		105.3	%REC	1	4/8/2008 2:43:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.1	%REC	1	4/8/2008 2:43:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040185

Lab ID: 08040185-005

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-833 @ 9-10 ft

Collection Date: 4/2/2008 4:45:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.6	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.4	%	1	4/4/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		2.92	mg/Kg-dry	1	4/8/2008 11:41:41 AM	LAL
Chromium	NELAP	1.00		24.2	mg/Kg-dry	1	4/7/2008 10:49:24 PM	LAL
Lead	NELAP	4.00		19.7	mg/Kg-dry	1	4/7/2008 10:49:24 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.439		3.09	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Acenaphthylene	NELAP	0.439		11.7	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Anthracene	NELAP	0.439		11.0	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Benzo(a)anthracene	NELAP	0.439		6.26	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Benzo(a)pyrene	NELAP	0.439		4.38	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.439		4.86	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.439		1.30	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.439		1.93	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Chrysene	NELAP	0.439		5.35	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.439		0.517	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Fluoranthene	NELAP	0.439		17.0	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Fluorene	NELAP	0.439		14.2	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.439		1.43	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Naphthalene	NELAP	0.439		52.2	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Phenanthrene	NELAP	0.439		36.5	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Pyrene	NELAP	0.439		14.3	mg/Kg-dry	100	4/8/2008 1:57:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	100	4/8/2008 1:57:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		39.9	%REC	100	4/8/2008 1:57:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		59.9	%REC	100	4/8/2008 1:57:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1290		13200	µg/Kg-dry	1000	4/8/2008 4:14:00 PM	JSA
Ethylbenzene	NELAP	6460	J	5500	µg/Kg-dry	1000	4/8/2008 4:14:00 PM	JSA
Toluene	NELAP	6460		34900	µg/Kg-dry	1000	4/8/2008 4:14:00 PM	JSA
Xylenes, Total	NELAP	6460		54000	µg/Kg-dry	1000	4/8/2008 4:14:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		96.9	%REC	1000	4/8/2008 4:14:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.0	%REC	1000	4/8/2008 4:14:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.9	%REC	1000	4/8/2008 4:14:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.3	%REC	1000	4/8/2008 4:14:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.46		1.31	mg/Kg-dry	1	4/7/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040185  
**Lab ID:** 08040185-005  
**Report Date:** 09-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-833 @ 9-10 ft  
**Collection Date:** 4/2/2008 4:45:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.63		Interference	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040185

Lab ID: 08040185-006

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-833 @ 10-12 ft

Collection Date: 4/2/2008 5:20:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.2	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.8	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.434		10.1	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Acenaphthylene	NELAP	0.434		41.5	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Anthracene	NELAP	0.434		35.0	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Benzo(a)anthracene	NELAP	0.434		20.5	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Benzo(a)pyrene	NELAP	0.434		14.9	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.434		15.5	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.434		4.68	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.434		6.04	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Chrysene	NELAP	0.434		19.3	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.434		2.20	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Fluoranthene	NELAP	0.434		52.7	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Fluorene	NELAP	0.434		44.9	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.434		5.10	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Naphthalene	NELAP	0.434		201	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Phenanthrene	NELAP	0.434		106	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Pyrene	NELAP	0.434		45.0	mg/Kg-dry	100	4/8/2008 2:32:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		59.9	%REC	100	4/8/2008 2:32:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	100	4/8/2008 2:32:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		99.8	%REC	100	4/8/2008 2:32:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1290		15300	µg/Kg-dry	1000	4/8/2008 4:44:00 PM	JSA
Ethylbenzene	NELAP	6430		6810	µg/Kg-dry	1000	4/8/2008 4:44:00 PM	JSA
Toluene	NELAP	6430		42900	µg/Kg-dry	1000	4/8/2008 4:44:00 PM	JSA
Xylenes, Total	NELAP	6430		68200	µg/Kg-dry	1000	4/8/2008 4:44:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		96.0	%REC	1000	4/8/2008 4:44:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		97.9	%REC	1000	4/8/2008 4:44:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		98.9	%REC	1000	4/8/2008 4:44:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.3	%REC	1000	4/8/2008 4:44:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040185

Lab ID: 08040185-007

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-833 @ 25-26 ft

Collection Date: 4/2/2008 6:10:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.4	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.6	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.091	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.669	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Anthracene	NELAP	0.004		0.078	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.013	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.009	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.010	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.006	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Chrysene	NELAP	0.004		0.012	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Fluoranthene	NELAP	0.004		0.038	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Fluorene	NELAP	0.004		0.299	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Naphthalene	NELAP	0.038		4.64	mg/Kg-dry	10	4/8/2008 7:20:00 PM	TDN
Phenanthrene	NELAP	0.004		0.249	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Pyrene	NELAP	0.004		0.031	mg/Kg-dry	1	4/7/2008 12:56:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.3	%REC	1	4/7/2008 12:56:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		55.7	%REC	1	4/7/2008 12:56:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.7	%REC	1	4/7/2008 12:56:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1120		3190	µg/Kg-dry	1000	4/8/2008 5:14:00 PM	JSA
Ethylbenzene	NELAP	5580		7160	µg/Kg-dry	1000	4/8/2008 5:14:00 PM	JSA
Toluene	NELAP	5580		29400	µg/Kg-dry	1000	4/8/2008 5:14:00 PM	JSA
Xylenes, Total	NELAP	5580		75100	µg/Kg-dry	1000	4/8/2008 5:14:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		94.8	%REC	1000	4/8/2008 5:14:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		97.7	%REC	1000	4/8/2008 5:14:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		96.5	%REC	1000	4/8/2008 5:14:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.2	%REC	1000	4/8/2008 5:14:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040185

Lab ID: 08040185-008

Report Date: 09-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-833 @ 31-32 ft

Collection Date: 4/2/2008 6:30:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		90.0	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.021	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.023	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Anthracene	NELAP	0.004		0.043	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.035	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.027	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.029	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.014	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.011	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Chrysene	NELAP	0.004		0.034	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.004	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Fluoranthene	NELAP	0.004		0.087	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Fluorene	NELAP	0.004		0.036	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Naphthalene	NELAP	0.004		0.072	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Phenanthrene	NELAP	0.004		0.143	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Pyrene	NELAP	0.004		0.083	mg/Kg-dry	1	4/7/2008 2:40:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		42.3	%REC	1	4/7/2008 2:40:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		50.1	%REC	1	4/7/2008 2:40:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.9	%REC	1	4/7/2008 2:40:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		6.0	µg/Kg-dry	1	4/9/2008 10:52:00 AM	JSA
Ethylbenzene	NELAP	4.4	J	1.3	µg/Kg-dry	1	4/9/2008 10:52:00 AM	JSA
Toluene	NELAP	4.4		5.6	µg/Kg-dry	1	4/9/2008 10:52:00 AM	JSA
Xylenes, Total	NELAP	4.4	J	3.7	µg/Kg-dry	1	4/9/2008 10:52:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		70.8	%REC	1	4/9/2008 10:52:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		112.6	%REC	1	4/9/2008 10:52:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		71.2	%REC	1	4/9/2008 10:52:00 AM	JSA
Surr: Toluene-d8		80.1-122		102.7	%REC	1	4/9/2008 10:52:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040185

Client Sample ID: B-833 @ 10-12ft DUP

Lab ID: 08040185-009

Collection Date: 4/2/2008 5:20:00 PM

Report Date: 09-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.5	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.5	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.439		12.9	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Acenaphthylene	NELAP	0.439		57.6	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Anthracene	NELAP	0.439		40.3	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Benzo(a)anthracene	NELAP	0.439		26.5	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Benzo(a)pyrene	NELAP	0.439		19.6	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.439		21.4	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.439		5.74	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.439		8.68	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Chrysene	NELAP	0.439		24.6	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.439		2.69	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Fluoranthene	NELAP	0.439		66.0	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Fluorene	NELAP	0.439		58.9	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.439		6.72	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Naphthalene	NELAP	2.20		325	mg/Kg-dry	500	4/8/2008 7:56:00 PM	TDN
Phenanthrene	NELAP	0.439		117	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Pyrene	NELAP	0.439		50.6	mg/Kg-dry	100	4/8/2008 3:07:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		99.8	%REC	100	4/8/2008 3:07:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	100	4/8/2008 3:07:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		99.8	%REC	100	4/8/2008 3:07:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1290		50700	µg/Kg-dry	1000	4/8/2008 3:44:00 PM	JSA
Ethylbenzene	NELAP	6450		24000	µg/Kg-dry	1000	4/8/2008 3:44:00 PM	JSA
Toluene	NELAP	6450		163000	µg/Kg-dry	1000	4/8/2008 3:44:00 PM	JSA
Xylenes, Total	NELAP	6450		255000	µg/Kg-dry	1000	4/8/2008 3:44:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		96.6	%REC	1000	4/8/2008 3:44:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.7	%REC	1000	4/8/2008 3:44:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.2	%REC	1000	4/8/2008 3:44:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.7	%REC	1000	4/8/2008 3:44:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040185

**Report Date:** 09-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040185-001A	B-829 @ 2-3 ft	4/2/2008	Solid	ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040185-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040185-002A	B-829 @ 6-7 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 9010B, 9014	4/4/2008	4/7/2008
				SW-846 9014A	4/4/2008	4/8/2008
08040185-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040185-003A	B-829 @ 21-22 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040185-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040185

**Report Date:** 09-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040185-003D	B-829 @ 21-22 ft	4/2/2008	Solid	SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040185-004A	B-833 @ 2-3 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040185-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040185-005A	B-833 @ 9-10 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/7/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 9010B, 9014	4/4/2008	4/7/2008
				SW-846 9014A	4/4/2008	4/8/2008
08040185-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040185-006A	B-833 @ 10-12 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040185-006D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040185-007A	B-833 @ 25-26 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040185

**Report Date:** 09-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040185-007A	B-833 @ 25-26 ft	4/2/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040185-007D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040185-008A	B-833 @ 31-32 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040185-008D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040185-009A	B-833 @ 10-12ft DUP			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040185-009D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

		Qualifiers			
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference		
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite		
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range		
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded		
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited		

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185      Report Date: 09-Apr-08

TestCode: I\_ACN\_S\_MT

Sample ID: MB-43868	SampType: MBLK	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106511
Client ID: ZZZZZZ	Batch ID: 43868	SOP2092	Analysis Date: 4/8/2008	SeqNo: 1902016
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide, Amenable to Chlorination	< 0.50	0.50		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
				RPDLimit
				Qual

Sample ID: LCS-43868	SampType: LCS	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106511
Client ID: ZZZZZZ	Batch ID: 43868	SOP2092	Analysis Date: 4/8/2008	SeqNo: 1902017
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide, Amenable to Chlorination	9.86	0.50	10.00	
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
				RPDLimit
				Qual

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185 Report Date: 09-Apr-08

TestCode: I\_TCN\_S\_MT

Sample ID: MB-43867	SampType: MBLK	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900925
Analyte	Result	PQL	SPK value	SPK Ref Val
	< 0.01	0.01		
		%REC	LowLimit	HighLimit
			RPD Ref Val	RPD Limit
				Qual

Sample ID: LCS-43867	SampType: LCS	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900926
Analyte	Result	PQL	SPK value	SPK Ref Val
	0.20	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		98.9	85	115
			RPD Ref Val	RPD Limit
				Qual

Sample ID: LCSD-43867	SampType: LCSD	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900927
Analyte	Result	PQL	SPK value	SPK Ref Val
	0.19	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		97.3	85	115
			RPD Ref Val	RPD Limit
				Qual

Cyanide 0.19 0.01 0.2000 0 97.3 85 115 0.1979 1.72 15

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185 Report Date: 09-Apr-08

TestCode: L\_TS\_M\_MT

Sample ID: LCS-R106413	SampType: LCS	Units: %	Prep Date:	RunNo: 106413							
Client ID: ZZZZZZ	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899672							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 106413							
Client ID: ZZZZZZ	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899673							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: 08040185-005ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106413							
Client ID: B-833 @ 9-10 RDUP	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899690							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	77.9	0.1						77.42	0.669		15

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185      Report Date: 09-Apr-08

Sample ID: MB-43859	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106443							
Client ID: ZZZZZZ	Batch ID: 43859	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901041							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-43859	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106443							
Client ID: ZZZZZZ	Batch ID: 43859	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901042							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	210	2.50	200.0	0	105.1	85	115				
Chromium	21.2	1.00	20.00	0	105.8	85	115				
Lead	52.1	4.00	50.00	0	104.2	85	115				

Sample ID: 08040185-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106443							
Client ID: B-829 @ 6-7 ftMS	Batch ID: 43859	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901380							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	184	2.36	188.7	8.840	92.7	75	125				
Chromium	39.9	0.94	18.87	22.87	90.3	75	125				
Lead	56.1	3.77	47.17	14.87	87.4	75	125				

Sample ID: 08040185-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106443							
Client ID: B-829 @ 6-7 ftMSD	Batch ID: 43859	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901381							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	183	2.36	188.7	8.840	92.4	75	125	183.8	0.308	20	
Chromium	39.7	0.94	18.87	22.87	89.0	75	125	39.91	0.617	20	
Lead	55.6	3.77	47.17	14.87	86.4	75	125	56.11	0.861	20	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185 Report Date: 09-Apr-08

TestCode: M\_SOLIDS\_ICP

Sample ID: MB-43859	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106505							
Client ID: ZZZZZZ	Batch ID: 43859	SOP 3032	Analysis Date: 4/8/2008	SeqNo: 1902519							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-43859	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106505							
Client ID: ZZZZZZ	Batch ID: 43859	SOP 3032	Analysis Date: 4/8/2008	SeqNo: 1902520							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.1	4.00	50.00	0	92.1	85	115				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185 Report Date: 09-Apr-08

Test Code: SV\_8270S\_S\_SIMS

Sample ID: MB-43852	Samp Type: MBLK	Units: mg/Kg	RunNo: 106416
Client ID: ZZZZZZ	Batch ID: 43852	SW3550B	SeqNo: 1899784
Analyte	Result	PQL	SPK value
			SPK Ref Val
		%REC	LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual

Acenaphthene	ND	0.003	
Acenaphthylene	ND	0.003	
Anthracene	ND	0.003	
Benzo(a)anthracene	ND	0.003	
Benzo(a)pyrene	ND	0.003	
Benzo(b)fluoranthene	ND	0.003	
Benzo(g,h,i)perylene	ND	0.003	
Benzo(k)fluoranthene	ND	0.003	
Chrysene	ND	0.003	
Dibenzo(a,h)anthracene	ND	0.003	
Fluoranthene	ND	0.003	
Fluorene	ND	0.003	
Indeno(1,2,3-cd)pyrene	ND	0.003	
Naphthalene	ND	0.003	
Phenanthrene	ND	0.003	
Pyrene	ND	0.003	
Surr: 2-Fluorobiphenyl	0.119		0.1670
Surr: Nitrobenzene-d5	0.111		0.1670
Surr: p-Terphenyl-d14	0.131		0.1670
		71.5	17.5
		66.7	35
		78.2	53.6
			123
			105
			122

Sample ID: MB-43877	Samp Type: MBLK	Units: mg/Kg	RunNo: 106478
Client ID: ZZZZZZ	Batch ID: 43877	SW3550B	SeqNo: 1900968
Analyte	Result	PQL	SPK value
			SPK Ref Val
		%REC	LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual

Acenaphthene	ND	0.003	
Acenaphthylene	ND	0.003	
Anthracene	ND	0.003	
Benzo(a)anthracene	ND	0.003	
Benzo(a)pyrene	ND	0.003	
Benzo(b)fluoranthene	ND	0.003	
Benzo(g,h,i)perylene	ND	0.003	



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185 Report Date: 09-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: MB-43877	SampType: MBLK	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43877	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1900968							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.119		0.1670		71.5	17.5	123				
Surr: Nitrobenzene-d5	0.109		0.1670		65.3	35	105				
Surr: p-Terphenyl-d14	0.127		0.1670		76.0	53.6	122				

Sample ID: LCS-43877	SampType: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43877	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1900969							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.104	0.003	0.1670	0	62.5	56.3	115				
Acenaphthylene	0.122	0.003	0.1670	0	73.3	60.3	143				
Anthracene	0.103	0.003	0.1670	0	61.5	52.1	109				
Benzo(a)anthracene	0.101	0.003	0.1670	0	60.3	52.8	112				
Benzo(a)pyrene	0.107	0.003	0.1670	0	63.8	40.8	127				
Benzo(b)fluoranthene	0.125	0.003	0.1670	0	74.6	50.1	150				
Benzo(g,h,i)perylene	0.123	0.003	0.1670	0	73.6	52.8	145				
Benzo(k)fluoranthene	0.124	0.003	0.1670	0	74.5	52	153				
Chrysene	0.112	0.003	0.1670	0	66.9	60.8	128				
Dibenzo(a,h)anthracene	0.120	0.003	0.1670	0	71.8	54.9	150				
Fluoranthene	0.109	0.003	0.1670	0	65.3	58.7	125				
Fluorene	0.108	0.003	0.1670	0	64.9	57.8	125				
Indeno(1,2,3-cd)pyrene	0.119	0.003	0.1670	0	71.4	52	147				
Naphthalene	0.092	0.003	0.1670	0	55.1	54.8	113				

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040185      Report Date: 09-Apr-08

Sample ID: LCS-43877	Sample Type: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43877	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1900969							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.110	0.003	0.1670	0	65.6	60.4	121				
Pyrene	0.111	0.003	0.1670	0	66.4	57.9	129				
Surr: 2-Fluorobiphenyl	0.115		0.1670		68.7	35.3	113				
Surr: Nitrobenzene-d5	0.099		0.1670		59.5	33.9	108				
Surr: p-Terphenyl-d14	0.118		0.1670		70.5	58.4	122				

Sample ID: 08040185-002AMS	Sample Type: MS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: B-829 @ 6-7 fIMS	Batch ID: 43877	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1901645							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.74	0.008	0.2021	2.003	-128.7	36	135				S
Acenaphthylene	0.356	0.008	0.2021	0.2399	57.5	17.2	167				
Anthracene	0.933	0.008	0.2021	0.9749	-20.7	39.3	124				S
Benzo(a)anthracene	0.657	0.008	0.2021	0.6728	-7.7	10	183				S
Benzo(a)pyrene	0.586	0.008	0.2021	0.5453	20.3	10	204				
Benzo(b)fluoranthene	0.535	0.008	0.2021	0.5128	11.2	10.6	178				
Benzo(g,h,i)perylene	0.330	0.008	0.2021	0.2274	50.7	10	168				
Benzo(k)fluoranthene	0.328	0.008	0.2021	0.1785	74.2	27.6	181				
Chrysene	0.636	0.008	0.2021	0.6253	5.4	10	176				S
Dibenzo(a,h)anthracene	0.208	0.008	0.2021	0.07061	67.8	12.2	156				
Fluoranthene	1.47	0.008	0.2021	1.682	-105.7	10	227				S
Fluorene	1.23	0.008	0.2021	1.384	-76.5	35.2	148				S
Indeno(1,2,3-cd)pyrene	0.314	0.008	0.2021	0.1936	59.6	10	164				
Naphthalene	0.187	0.008	0.2021	0.06295	61.1	14.7	128				
Phenanthrene	3.40	0.008	0.2021	4.095	-343.0	32.8	143				S
Pyrene	1.77	0.008	0.2021	2.031	-130.5	10	180				S
Surr: 2-Fluorobiphenyl	0.152		0.2021		75.4	10	131				
Surr: Nitrobenzene-d5	0.130		0.2021		64.3	10	132				
Surr: p-Terphenyl-d14	0.154		0.2021		76.2	30.6	131				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040185 Report Date: 09-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08040185-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: B-829 @ 6-7 ftMSD	Batch ID: 43877	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1901646							
Analyte	Result	PQL	SPK value	SPK Ref/Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2.16	0.008	0.2074	2.003	74.0	36	135	1.743	21.2	49.7	
Acenaphthylene	0.397	0.008	0.2074	0.2399	75.7	17.2	167	0.3561	10.8	33.3	
Anthracene	1.11	0.008	0.2074	0.9749	63.6	39.3	124	0.9331	17.0	51.1	
Benzo(a)anthracene	0.816	0.008	0.2074	0.6728	69.2	10	183	0.6573	21.6	40.6	
Benzo(a)pyrene	0.699	0.008	0.2074	0.5453	74.0	10	204	0.5864	17.5	56.4	
Benzo(b)fluoranthene	0.687	0.008	0.2074	0.5128	83.9	10.6	178	0.5355	24.8	49.7	
Benzo(g,h,i)perylene	0.373	0.008	0.2074	0.2274	70.0	10	168	0.3298	12.2	36.5	
Benzo(k)fluoranthene	0.351	0.008	0.2074	0.1785	83.0	27.6	181	0.3285	6.56	42.6	
Chrysene	0.742	0.008	0.2074	0.6253	56.4	10	176	0.6362	15.4	45.1	
Dibenzo(a,h)anthracene	0.209	0.008	0.2074	0.07061	66.6	12.2	156	0.2076	0.496	39.9	
Fluoranthene	1.85	0.008	0.2074	1.682	78.9	10	227	1.469	22.8	66.2	
Fluorene	1.44	0.008	0.2074	1.384	24.8	35.2	148	1.230	15.5	65.6	S
Indeno(1,2,3-cd)pyrene	0.342	0.008	0.2074	0.1936	71.7	10	164	0.3140	8.62	36.5	
Naphthalene	0.183	0.008	0.2074	0.06295	58.0	14.7	128	0.1865	1.81	39.6	
Phenanthrene	3.83	0.008	0.2074	4.095	-130.1	32.8	143	3.402	11.7	35.4	S
Pyrene	2.21	0.008	0.2074	2.031	84.1	10	180	1.768	22.1	60.1	
Surr: 2-Fluorobiphenyl	0.140		0.2074		67.5	10	131		0	40	
Surr: Nitrobenzene-d5	0.115		0.2074		55.5	10	132		0	40	
Surr: p-Terphenyl-d14	0.137		0.2074		66.3	30.6	131		0	40	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Campaign

Lab Order: 08040185

Report Date: 09-Apr-08

TestCode: V\_BTEX\_S

Sample ID: LCS-G080408-1	SampType: LCS	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902238							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.2	1.0	50.00	0	100.3	75	123				
Toluene	50.4	5.0	50.00	0	100.7	77.3	117				
Ethylbenzene	51.8	5.0	50.00	0	103.6	80.8	118				
Xylenes, Total	104	5.0	100.0	0	104.4	78.5	121				
Surr: 1,2-Dichloroethane-d4	50.1		50.00		100.1	61	128				
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	78.2	117				
Surr: Dibromofluoromethane	51.7		50.00		103.4	66.6	130				
Surr: Toluene-d8	49.7		50.00		99.4	80.1	122				

Sample ID: LCSD-G080408-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902239							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.2	1.0	50.00	0	100.3	75	123	50.15	0	20	
Toluene	50.2	5.0	50.00	0	100.3	77.3	117	50.35	0.358	20	
Ethylbenzene	52.0	5.0	50.00	0	104.1	80.8	118	51.78	0.482	20	
Xylenes, Total	103	5.0	100.0	0	103.4	78.5	121	104.4	0.963	20	
Surr: 1,2-Dichloroethane-d4	51.1		50.00		102.2	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.1		50.00		98.2	78.2	117		0	0	
Surr: Dibromofluoromethane	50.9		50.00		101.9	66.6	130		0	0	
Surr: Toluene-d8	49.8		50.00		99.6	80.1	122		0	0	

Sample ID: MBLK-G080408-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902241							
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									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185 Report Date: 09-Apr-08

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-G080408-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106524</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43917</b>	<b>SW5035</b>	Analysis Date: <b>4/8/2008</b>	SeqNo: <b>1902241</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichloroethane-d4	48.5	1.0	50.00	61	97.1	61	128				
Surr: 4-Bromofluorobenzene	47.9	5.0	50.00	78.2	95.8	78.2	117				
Surr: Dibromofluoromethane	50.4	5.0	50.00		100.9	66.6	130				
Surr: Toluene-d8	49.2	5.0	50.00		98.3	80.1	122				

Sample ID: <b>LCS-G080408-2</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903051</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	47.2	1.0	50.00	75	94.5	75	123				
Toluene	46.8	5.0	50.00	77.3	93.5	77.3	117				
Ethylbenzene	48.2	5.0	50.00		96.4	80.8	118				
Xylenes, Total	95.6	5.0	100.0		95.6	78.5	121				
Surr: 1,2-Dichloroethane-d4	48.7		50.00	61	97.3	61	128				
Surr: 4-Bromofluorobenzene	49.7		50.00	78.2	99.4	78.2	117				
Surr: Dibromofluoromethane	49.5		50.00	66.6	98.9	66.6	130				
Surr: Toluene-d8	48.8		50.00	80.1	97.7	80.1	122				

Sample ID: <b>LCSD-G080408-2</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903052</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	49.2	1.0	50.00	75	98.4	75	123	47.24	4.02	20	
Toluene	48.0	5.0	50.00	77.3	95.9	77.3	117	46.77	2.53	20	
Ethylbenzene	49.2	5.0	50.00		98.5	80.8	118	48.22	2.09	20	
Xylenes, Total	98.5	5.0	100.0		98.5	78.5	121	95.64	2.96	20	
Surr: 1,2-Dichloroethane-d4	47.8		50.00	61	95.6	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.5		50.00	78.2	99.1	78.2	117		0	0	
Surr: Dibromofluoromethane	49.8		50.00	66.6	99.5	66.6	130		0	0	
Surr: Toluene-d8	48.7		50.00	80.1	97.4	80.1	122		0	0	

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040185      Report Date: 09-Apr-08

Sample ID: <b>MBLK-G080408-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	RunNo: <b>106557</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	SeqNo: <b>1903054</b>
Analyte	Result	PQL	SPK value
			SPK Ref Val
		%REC	LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual

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	47.0		50.00		93.9	61	128				
Surr: 4-Bromofluorobenzene	48.8		50.00		97.6	78.2	117				
Surr: Dibromofluoromethane	49.2		50.00		98.5	66.6	130				
Surr: Toluene-d8	49.5		50.00		99.0	80.1	122				

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## RECEIVING CHECK LIST

**Project:** A831-735002-012901-225/IP Champaign**Lab Order:** 08040185**Report Date:** 09-Apr-08**Carrier:** Derek Ingram**Received By:** AMH**Completed by:****On:**

03-Apr-08

Amanda M. Harris

**Reviewed by:****On:**

04-Apr-08

Marvin L. Darling

Pages to follow: Chain of custody Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 2.8
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<div style="border: 1px solid black; padding: 2px; margin: 5px 0;"><i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i></div>				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.

Per Derek Ingram, combine any samples that have depths within three ft. Round sample ID's to nearest whole foot. AMH 4/3/08



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08040185

COC Serial No. **B** 08864

Project Name: Amren P Campaign Project Mgr.: Deek Ingram  
Project Number: 62403053 Cost Code: 024501

Total Number of Containers

Analyses by Method Name and Number

Laboratory Temperature upon Receipt  
2.8

Sampler(s)	Name: <u>Teklab</u>	Location: <u>Collinsville IL</u>	Sample Number and (depth)		Date	Time	Matrix				Total Number of Containers	Comments (Field PID)	Lab ID #'s
			Soil	Water			Air	Wipes	Other *				
<u>B-829</u>	<u>(2.5'-3')</u>		<u>4-2</u>	<u>1338</u>	<u>4-2</u>	<u>1338</u>	X	X	X	X	X	<u>Metals - arsenic,</u>	<u>001</u>
<u>B-829</u>	<u>(2'-3')</u>		<u>4-2</u>	<u>1338</u>	<u>4-2</u>	<u>1338</u>	X	X	X	X	X	<u>chromium,</u>	
<u>B-829</u>	<u>(6'-6.5')</u>		<u>4-2</u>	<u>1404</u>	<u>4-2</u>	<u>1404</u>	X	X	X	X	X	<u>lead</u>	<u>002</u>
<u>B-829</u>	<u>(6'-7')</u>		<u>4-2</u>	<u>1404</u>	<u>4-2</u>	<u>1404</u>	X	X	X	X	X		
<u>B-829</u>	<u>(21.5'-22')</u>		<u>4-2</u>	<u>1524</u>	<u>4-2</u>	<u>1524</u>	X	X	X	X	X	<u>Cyanide - total</u>	<u>003</u>
<u>B-829</u>	<u>(21'-22')</u>		<u>4-2</u>	<u>1524</u>	<u>4-2</u>	<u>1524</u>	X	X	X	X	X	<u>+ Amenable</u>	<u>004</u>
<u>B-833</u>	<u>(2'-3')</u>		<u>4-2</u>	<u>1620</u>	<u>4-2</u>	<u>1620</u>	X	X	X	X	X		<u>004</u>
<u>B-833</u>	<u>(2'-3')</u>		<u>4-2</u>	<u>1620</u>	<u>4-2</u>	<u>1620</u>	X	X	X	X	X	<u>see D. Ingram combined</u>	
<u>B-833</u>	<u>(9.5'-10')</u>		<u>4-2</u>	<u>1645</u>	<u>4-2</u>	<u>1645</u>	X	X	X	X	X	<u>sample depth within the</u>	<u>005</u>
<u>B-833</u>	<u>(9'-10')</u>		<u>4-2</u>	<u>1645</u>	<u>4-2</u>	<u>1645</u>	X	X	X	X	X	<u>order 34. 4/3/08 AMM</u>	
<u>B-833</u>	<u>(10.5'-11.5')</u>		<u>4-2</u>	<u>1720</u>	<u>4-2</u>	<u>1720</u>	X	X	X	X	X	<u>Label samples + nearest fr.</u>	<u>006</u>
<u>B-833</u>	<u>(25.5'-26')</u>		<u>4-2</u>	<u>1810</u>	<u>4-2</u>	<u>1810</u>	X	X	X	X	X		<u>007</u>

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Deek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Reinquired by:** Signature Deek Ingram Date 4-3-08 Time 8:14 AM

**Received by:** Signature Deek Ingram Date 4-3 Time 1400

Signature Deek Ingram Date 4-3 Time 1730





# Chain of Custody Record

210 West Sand Bank Road (618) 281-7173 Phone  
P.O. Box 230 (800) 733-7173  
Columbia, IL 62236-0230 (618) 281-5120 Fax

COC Serial No. **B** 08865

Project Name: Amesbury Campaign Project Mgr.: Derek Ingram

Project Number: 102403053 Cost Code: 024501

Sampler(s): L. HODSKER

Laboratory Name: Teklab

Location: Collinsville IL

Sample Number and (depth) Date Time

B-833 (31'-31.5') 4-2 1830

B-833 (31'-32') 4-2 1830

B-833 (10.5-11.5) DUP 4-2 1720

Analyses by Method Name and Number		Total Number of Containers	Comments (Field PID)	Lab ID #'s
Method Name and Number	Containers			
PHH 827051M	4	X X		008
Metals *	1	X X		
PHH 82608	5	X X X		009
PHH 827051M				
Cyanide				
PHH 02974-87				
PHH 02450				

Laboratory Temperature upon Receipt  
2.8

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

Volatile Organics ..... Hydrochloric acid (HCl)

VOC Soil (5035) ..... Sodium Bisulfate/Methanol

TPH ..... Hydrochloric acid and/or Sulfuric acid

Metals ..... Nitric acid (HNO<sub>3</sub>)

Cyanide ..... Sodium hydroxide (NaOH)

Other (Specify) .....

**Lab Directives:** Requested TAT:  Flush  5 Days  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature [Signature] Date 4/3/08 Time 1400

**Received by:** Signature [Signature] Date 4/3/08 Time 1730

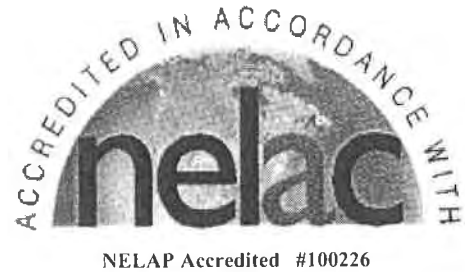
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 10, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign

**WorkOrder:** 08040186

Dear Derek Ingram:

TEKLAB, INC received 12 samples on 4/3/2008 5:30:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**Project:** A831-735002-012901-225/IP Champaign**Lab Order:** 08040186**Report Date:** 10-Apr-08

## SAMPLE SUMMARY

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040186-001	B-814 @ 0-2 ft	4	4/1/2008 9:05:00 AM
08040186-002	B-814 @ 7-8 ft	4	4/1/2008 9:40:00 AM
08040186-003	B-814 @ 17-18 ft	4	4/1/2008 10:30:00 AM
08040186-004	B-816 @ 1-2 ft	4	4/1/2008 11:20:00 AM
08040186-005	B-816 @ 9-10 ft	4	4/1/2008 12:16:00 PM
08040186-006	B-816 @ 19-21 ft	4	4/1/2008 1:30:00 PM
08040186-007	B-818 @ 2-3 ft	4	4/1/2008 1:45:00 PM
08040186-008	B-818 @ 7-9 ft	4	4/1/2008 2:05:00 PM
08040186-009	B-818 @ 13-15 ft	4	4/1/2008 2:38:00 PM
08040186-010	B-818 @ 24-26 ft	4	4/1/2008 3:18:00 PM
08040186-011	B-822 @ 6-8 ft	4	4/1/2008 4:11:00 PM
08040186-012	B-822 @ 1-3 ft	4	4/1/2008 3:35:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**LabOrder:** 08040186

**Report Date:** 10-Apr-08

## CASE NARRATIVE

**Cooler Receipt Temp:** 2.6 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

**DF** - Dilution Factor

**RL** - Reporting Limit

**ND** - Not Detected at the Reporting Limit

**Surr** - Surrogate Standard added by lab

**TNTC** - Too numerous to count (> 200 CFU)

**Q** - QC criteria failed or noncompliant CCV

**NELAP** - IL ELAP and NELAP Accredited Field of Testing

**B** - Analyte detected in the associated Method Blank

**J** - Analyte detected below reporting limits

**R** - RPD outside accepted recovery limits

**S** - Spike Recovery outside accepted recovery limits

**X** - Value exceeds Maximum Contaminant Level

**#** - Unknown hydrocarbon

**IDPH** - IL Dept. of Public Health

**C** - Client requested RL below

**D** - Diluted out of sample

**E** - Value above quantitation range

**H** - Holding time exceeded

**MI** - Matrix interference

**DNI** - Did not ignite

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040186

Lab ID: 08040186-001

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-814 @ 0-2 ft

Collection Date: 4/1/2008 9:05:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		4.55	wt%	1	4/4/2008	TWM
Organic Matter		0.10		7.84	wt%	1	4/4/2008	TWM
Percent Moisture		0.1		46.4	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		53.6	%	1	4/4/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		5.29	mg/Kg-dry	1	4/7/2008 10:56:14 PM	LAL
Chromium	NELAP	0.96		23.4	mg/Kg-dry	1	4/7/2008 10:56:14 PM	LAL
Lead	NELAP	3.85		53.3	mg/Kg-dry	1	4/7/2008 10:56:14 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.063		ND	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Acenaphthylene	NELAP	0.063		0.823	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Anthracene	NELAP	0.063		0.188	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Benzo(a)anthracene	NELAP	0.063		0.770	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Benzo(a)pyrene	NELAP	0.063		1.09	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.063		1.55	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.063		1.04	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.063		0.491	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Chrysene	NELAP	0.063		1.08	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.063		0.244	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Fluoranthene	NELAP	0.063		1.15	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Fluorene	NELAP	0.063		0.081	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.063		0.828	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Naphthalene	NELAP	0.063		0.077	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Phenanthrene	NELAP	0.063		0.549	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Pyrene	NELAP	0.063		1.57	mg/Kg-dry	10	4/8/2008 8:31:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		57.9	%REC	10	4/8/2008 8:31:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		61.9	%REC	10	4/8/2008 8:31:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		77.8	%REC	10	4/8/2008 8:31:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.9		ND	µg/Kg-dry	1	4/8/2008 7:44:00 PM	JSA
Ethylbenzene	NELAP	9.3		ND	µg/Kg-dry	1	4/8/2008 7:44:00 PM	JSA
Toluene	NELAP	9.3		ND	µg/Kg-dry	1	4/8/2008 7:44:00 PM	JSA
Xylenes, Total	NELAP	9.3		ND	µg/Kg-dry	1	4/8/2008 7:44:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		107.6	%REC	1	4/8/2008 7:44:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		95.6	%REC	1	4/8/2008 7:44:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		100	%REC	1	4/8/2008 7:44:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.6	%REC	1	4/8/2008 7:44:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040186  
**Lab ID:** 08040186-001  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-814 @ 0-2 ft  
**Collection Date:** 4/1/2008 9:05:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9010B, 9014</u> Cyanide	NELAP	0.46		6.58	mg/Kg-dry	1	4/7/2008	AET
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.92		Interference	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040186

Client Sample ID: B-814 @ 7-8 ft

Lab ID: 08040186-002

Collection Date: 4/1/2008 9:40:00 AM

Report Date: 10-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		0.50	wt%	1	4/4/2008	TWN
Organic Matter		0.10		0.86	wt%	1	4/4/2008	TWN
Percent Moisture		0.1		18.5	%	1	4/4/2008	TWN
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.5	%	1	4/4/2008	TWN
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.45		10.1	mg/Kg-dry	1	4/7/2008 11:03:02 PM	LAL
Chromium	NELAP	0.98		14.2	mg/Kg-dry	1	4/7/2008 11:03:02 PM	LAL
Lead	NELAP	3.92		10.1	mg/Kg-dry	1	4/7/2008 11:03:02 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:15:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		46.9	%REC	1	4/7/2008 3:15:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		61.3	%REC	1	4/7/2008 3:15:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.1	%REC	1	4/7/2008 3:15:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		1.2	µg/Kg-dry	1	4/8/2008 8:14:00 PM	JSA
Ethylbenzene	NELAP	6.1		ND	µg/Kg-dry	1	4/8/2008 8:14:00 PM	JSA
Toluene	NELAP	6.1	J	1.8	µg/Kg-dry	1	4/8/2008 8:14:00 PM	JSA
Xylenes, Total	NELAP	6.1	J	1.3	µg/Kg-dry	1	4/8/2008 8:14:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		101.0	%REC	1	4/8/2008 8:14:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		91.8	%REC	1	4/8/2008 8:14:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.1	%REC	1	4/8/2008 8:14:00 PM	JSA
Surr: Toluene-d8		80.1-122		96.3	%REC	1	4/8/2008 8:14:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040186

Lab ID: 08040186-002

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-814 @ 7-8 ft

Collection Date: 4/1/2008 9:40:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9010B, 9014</u> Cyanide	NELAP	0.46		11.1	mg/Kg-dry	1	4/7/2008	AET
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.61		< 0.61	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040186  
**Lab ID:** 08040186-003  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-814 @ 17-18 ft  
**Collection Date:** 4/1/2008 10:30:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.1	%	1	4/4/2008	TWN
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.9	%	1	4/4/2008	TWN
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 3:50:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		62.9	%REC	1	4/7/2008 3:50:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		59.1	%REC	1	4/7/2008 3:50:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.7	%REC	1	4/7/2008 3:50:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		2.0	µg/Kg-dry	1	4/8/2008 8:45:00 PM	JSA
Ethylbenzene	NELAP	6.2		ND	µg/Kg-dry	1	4/8/2008 8:45:00 PM	JSA
Toluene	NELAP	6.2	J	2.5	µg/Kg-dry	1	4/8/2008 8:45:00 PM	JSA
Xylenes, Total	NELAP	6.2	J	1.7	µg/Kg-dry	1	4/8/2008 8:45:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		97.1	%REC	1	4/8/2008 8:45:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		93.0	%REC	1	4/8/2008 8:45:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		94.5	%REC	1	4/8/2008 8:45:00 PM	JSA
Surr: Toluene-d8		80.1-122		96.4	%REC	1	4/8/2008 8:45:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040186

**Lab ID:** 08040186-004

**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-816 @ 1-2 ft

**Collection Date:** 4/1/2008 11:20:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.6	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.4	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.009		ND	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Acenaphthylene	NELAP	0.009		0.086	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Anthracene	NELAP	0.009		0.031	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Benzo(a)anthracene	NELAP	0.009		0.086	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Benzo(a)pyrene	NELAP	0.009		0.108	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.009		0.157	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.009		0.124	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.009		0.051	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Chrysene	NELAP	0.009		0.121	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.009		0.028	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Fluoranthene	NELAP	0.009		0.139	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Fluorene	NELAP	0.009		0.009	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.009		0.098	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Naphthalene	NELAP	0.009		0.014	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Phenanthrene	NELAP	0.009		0.088	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Pyrene	NELAP	0.009		0.175	mg/Kg-dry	2	4/9/2008 4:44:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.1	%REC	2	4/9/2008 4:44:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	2	4/9/2008 4:44:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		68.7	%REC	2	4/9/2008 4:44:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.5		ND	µg/Kg-dry	1	4/9/2008 2:15:00 AM	JSA
Ethylbenzene	NELAP	7.3	J	2.7	µg/Kg-dry	1	4/9/2008 2:15:00 AM	JSA
Toluene	NELAP	7.3	J	3.4	µg/Kg-dry	1	4/9/2008 2:15:00 AM	JSA
Xylenes, Total	NELAP	7.3	J	2.2	µg/Kg-dry	1	4/9/2008 2:15:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		106.0	%REC	1	4/9/2008 2:15:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117	S	73.9	%REC	1	4/9/2008 2:15:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		101.8	%REC	1	4/9/2008 2:15:00 AM	JSA
Surr: Toluene-d8		80.1-122		90.8	%REC	1	4/9/2008 2:15:00 AM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040186

Lab ID: 08040186-005

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-816 @ 9-10 ft

Collection Date: 4/1/2008 12:16:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		18.7	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.3	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.013	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.009	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	4/7/2008 4:25:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		52.7	%REC	1	4/7/2008 4:25:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		58.9	%REC	1	4/7/2008 4:25:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		68.1	%REC	1	4/7/2008 4:25:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		1.5	µg/Kg-dry	1	4/8/2008 3:13:00 PM	JSA
Ethylbenzene	NELAP	6.1		ND	µg/Kg-dry	1	4/8/2008 3:13:00 PM	JSA
Toluene	NELAP	6.1		ND	µg/Kg-dry	1	4/8/2008 3:13:00 PM	JSA
Xylenes, Total	NELAP	6.1		ND	µg/Kg-dry	1	4/8/2008 3:13:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		106.6	%REC	1	4/8/2008 3:13:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.3	%REC	1	4/8/2008 3:13:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		101.2	%REC	1	4/8/2008 3:13:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.8	%REC	1	4/8/2008 3:13:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040186

Lab ID: 08040186-006

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-816 @ 19-21 ft

Collection Date: 4/1/2008 1:30:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.2	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.8	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 5:00:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		48.5	%REC	1	4/7/2008 5:00:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		55.3	%REC	1	4/7/2008 5:00:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		68.1	%REC	1	4/7/2008 5:00:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		0.9	µg/Kg-dry	1	4/9/2008 2:46:00 AM	JSA
Ethylbenzene	NELAP	4.2		ND	µg/Kg-dry	1	4/9/2008 2:46:00 AM	JSA
Toluene	NELAP	4.2	J	1.1	µg/Kg-dry	1	4/9/2008 2:46:00 AM	JSA
Xylenes, Total	NELAP	4.2		ND	µg/Kg-dry	1	4/9/2008 2:46:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		82.0	%REC	1	4/9/2008 2:46:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		104.0	%REC	1	4/9/2008 2:46:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		80.3	%REC	1	4/9/2008 2:46:00 AM	JSA
Surr: Toluene-d8		80.1-122		101.1	%REC	1	4/9/2008 2:46:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040186

Lab ID: 08040186-007

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-818 @ 2-3 ft

Collection Date: 4/1/2008 1:45:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.2	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.8	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.422		ND	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Acenaphthylene	NELAP	0.422		6.48	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Anthracene	NELAP	0.422		0.711	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Benzo(a)anthracene	NELAP	0.422		4.13	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Benzo(a)pyrene	NELAP	0.422		11.2	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.422		9.29	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.422		8.03	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.422		2.70	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Chrysene	NELAP	0.422		4.95	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.422		1.83	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Fluoranthene	NELAP	0.422		3.18	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Fluorene	NELAP	0.422	J	0.39	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.422		5.95	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Naphthalene	NELAP	0.422		0.815	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Phenanthrene	NELAP	0.422		0.881	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Pyrene	NELAP	0.422		6.85	mg/Kg-dry	100	4/8/2008 4:52:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	100	4/8/2008 4:52:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		39.9	%REC	100	4/8/2008 4:52:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		59.9	%REC	100	4/8/2008 4:52:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.3		18.3	µg/Kg-dry	1	4/8/2008 7:14:00 PM	JSA
Ethylbenzene	NELAP	6.3		ND	µg/Kg-dry	1	4/8/2008 7:14:00 PM	JSA
Toluene	NELAP	6.3	J	2.5	µg/Kg-dry	1	4/8/2008 7:14:00 PM	JSA
Xylenes, Total	NELAP	6.3		ND	µg/Kg-dry	1	4/8/2008 7:14:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		104.1	%REC	1	4/8/2008 7:14:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.5	%REC	1	4/8/2008 7:14:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		96.8	%REC	1	4/8/2008 7:14:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.5	%REC	1	4/8/2008 7:14:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040186

Lab ID: 08040186-008

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-818 @ 7-9 ft

Collection Date: 4/1/2008 2:05:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.8	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.2	%	1	4/4/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		5.49	mg/Kg-dry	1	4/7/2008 11:23:17 PM	LAL
Chromium	NELAP	0.96		24.1	mg/Kg-dry	1	4/7/2008 11:23:17 PM	LAL
Lead	NELAP	3.85		20.2	mg/Kg-dry	1	4/7/2008 11:23:17 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.021		0.943	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Acenaphthylene	NELAP	0.021		0.613	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Anthracene	NELAP	0.021		1.14	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Benzo(a)anthracene	NELAP	0.021		0.858	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Benzo(a)pyrene	NELAP	0.021		0.921	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.021		0.713	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.021		0.338	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.021		0.227	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Chrysene	NELAP	0.021		0.820	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.021		0.099	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Fluoranthene	NELAP	0.021		1.82	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Fluorene	NELAP	0.021		0.815	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.021		0.293	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Naphthalene	NELAP	0.021		0.082	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Phenanthrene	NELAP	0.021		3.77	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Pyrene	NELAP	0.021		2.64	mg/Kg-dry	5	4/8/2008 5:26:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		64.9	%REC	5	4/8/2008 5:26:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		52.9	%REC	5	4/8/2008 5:26:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		76.8	%REC	5	4/8/2008 5:26:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	40.1		ND	µg/Kg-dry	25	4/9/2008 10:22:00 AM	JSA
Ethylbenzene	NELAP	201		7540	µg/Kg-dry	25	4/9/2008 10:22:00 AM	JSA
Toluene	NELAP	201		ND	µg/Kg-dry	25	4/9/2008 10:22:00 AM	JSA
Xylenes, Total	NELAP	201		3950	µg/Kg-dry	25	4/9/2008 10:22:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.9	%REC	25	4/9/2008 10:22:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		104.8	%REC	25	4/9/2008 10:22:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		100.8	%REC	25	4/9/2008 10:22:00 AM	JSA
Surr: Toluene-d8		80.1-122		109.1	%REC	25	4/9/2008 10:22:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.48		2.12	mg/Kg-dry	1	4/7/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040186  
**Lab ID:** 08040186-008  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-818 @ 7-9 ft  
**Collection Date:** 4/1/2008 2:05:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.62		Interference	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 5035, 8260B. Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental  
WorkOrder: 08040186  
Lab ID: 08040186-009  
Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ  
Client Sample ID: B-818 @ 13-15 ft  
Collection Date: 4/1/2008 2:38:00 PM  
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		14.5	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		85.5	%	1	4/4/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		9.97	mg/Kg-dry	1	4/7/2008 11:42:54 PM	LAL
Chromium	NELAP	1.00		17.3	mg/Kg-dry	1	4/7/2008 11:42:54 PM	LAL
Lead	NELAP	4.00		16.2	mg/Kg-dry	1	4/8/2008 2:27:20 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.040		1.75	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Acenaphthylene	NELAP	0.040		1.06	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Anthracene	NELAP	0.040		1.48	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Benzo(a)anthracene	NELAP	0.040		1.06	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Benzo(a)pyrene	NELAP	0.040		1.42	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.040		1.10	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.040		0.739	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.040		0.350	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Chrysene	NELAP	0.040		1.12	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.040		0.179	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Fluoranthene	NELAP	0.040		2.27	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Fluorene	NELAP	0.040		1.36	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.040		0.564	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Naphthalene	NELAP	0.040		8.10	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Phenanthrene	NELAP	0.040		5.23	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Pyrene	NELAP	0.040		3.34	mg/Kg-dry	10	4/8/2008 6:01:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		61.9	%REC	10	4/8/2008 6:01:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		47.9	%REC	10	4/8/2008 6:01:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.9	%REC	10	4/8/2008 6:01:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	14.6		43.6	µg/Kg-dry	12.5	4/8/2008 6:14:00 PM	JSA
Ethylbenzene	NELAP	73.1		205	µg/Kg-dry	12.5	4/8/2008 6:14:00 PM	JSA
Toluene	NELAP	73.1	J	42	µg/Kg-dry	12.5	4/8/2008 6:14:00 PM	JSA
Xylenes, Total	NELAP	73.1		972	µg/Kg-dry	12.5	4/8/2008 6:14:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	140.6	%REC	12.5	4/8/2008 6:14:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		111.8	%REC	12.5	4/8/2008 6:14:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130	S	175.1	%REC	12.5	4/8/2008 6:14:00 PM	JSA
Surr: Toluene-d8		80.1-122		107.7	%REC	12.5	4/8/2008 6:14:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.48		2.02	mg/Kg-dry	1	4/7/2008	AET



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040186  
**Lab ID:** 08040186-009  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-818 @ 13-15 ft  
**Collection Date:** 4/1/2008 2:38:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.58		Interference	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040186  
**Lab ID:** 08040186-010  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-818 @ 24-26 ft  
**Collection Date:** 4/1/2008 3:18:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.2	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.8	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.038	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.025	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Anthracene	NELAP	0.004		0.037	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.030	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.031	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.024	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.017	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.008	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Chrysene	NELAP	0.004		0.030	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Fluoranthene	NELAP	0.004		0.063	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Fluorene	NELAP	0.004		0.033	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.012	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Naphthalene	NELAP	0.004		0.217	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Phenanthrene	NELAP	0.004		0.144	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Pyrene	NELAP	0.004		0.094	mg/Kg-dry	1	4/7/2008 5:35:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		19.2	%REC	1	4/7/2008 5:35:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		28.9	%REC	1	4/7/2008 5:35:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.3	%REC	1	4/7/2008 5:35:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	56.3		7050	µg/Kg-dry	50	4/8/2008 5:44:00 PM	JSA
Ethylbenzene	NELAP	282	J	58	µg/Kg-dry	50	4/8/2008 5:44:00 PM	JSA
Toluene	NELAP	282		584	µg/Kg-dry	50	4/8/2008 5:44:00 PM	JSA
Xylenes, Total	NELAP	282	J	140	µg/Kg-dry	50	4/8/2008 5:44:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		91.0	%REC	50	4/8/2008 5:44:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		102.1	%REC	50	4/8/2008 5:44:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		95.7	%REC	50	4/8/2008 5:44:00 PM	JSA
Surr: Toluene-d8		80.1-122		102.8	%REC	50	4/8/2008 5:44:00 PM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

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## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040186

Lab ID: 08040186-011

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-822 @ 6-8 ft

Collection Date: 4/1/2008 4:11:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.4	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.6	%	1	4/4/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		9.97	mg/Kg-dry	1	4/7/2008 11:49:42 PM	LAL
Chromium	NELAP	0.96		26.4	mg/Kg-dry	1	4/7/2008 11:49:42 PM	LAL
Lead	NELAP	3.85		15.9	mg/Kg-dry	1	4/8/2008 2:29:37 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.037	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.012	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.014	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.015	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.016	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Chrysene	NELAP	0.004		0.008	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Fluoranthene	NELAP	0.004		0.010	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Fluorene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.013	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Naphthalene	NELAP	0.004		0.010	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Phenanthrene	NELAP	0.004		0.013	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Pyrene	NELAP	0.004		0.029	mg/Kg-dry	1	4/7/2008 6:09:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		36.9	%REC	1	4/7/2008 6:09:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		46.9	%REC	1	4/7/2008 6:09:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.7	%REC	1	4/7/2008 6:09:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	15.9		ND	µg/Kg-dry	12.5	4/8/2008 6:43:00 PM	JSA
Ethylbenzene	NELAP	79.5		ND	µg/Kg-dry	12.5	4/8/2008 6:43:00 PM	JSA
Toluene	NELAP	79.5		ND	µg/Kg-dry	12.5	4/8/2008 6:43:00 PM	JSA
Xylenes, Total	NELAP	79.5	J	25	µg/Kg-dry	12.5	4/8/2008 6:43:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	142.0	%REC	12.5	4/8/2008 6:43:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		106.7	%REC	12.5	4/8/2008 6:43:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130	S	168.7	%REC	12.5	4/8/2008 6:43:00 PM	JSA
Surr: Toluene-d8		80.1-122	S	124.6	%REC	12.5	4/8/2008 6:43:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	6.12	S	33.1	mg/Kg-dry	10	4/8/2008	AET

ENVIRONMENTAL TESTING LABORATORY

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## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040186  
**Lab ID:** 08040186-011  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-822 @ 6-8 ft  
**Collection Date:** 4/1/2008 4:11:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		6.23		Interference	mg/Kg-dry	10	4/8/2008	AET

### Sample Narrative

SW-846 9010B, 9014

Matrix spikes did not recover within control limits because of matrix interference.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

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## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040186

Client Sample ID: B-822 @ 1-3 ft

Lab ID: 08040186-012

Collection Date: 4/1/2008 3:35:00 PM

Report Date: 10-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.5	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.5	%	1	4/4/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.36		3.45	mg/Kg-dry	1	4/7/2008 11:56:30 PM	LAL
Chromium	NELAP	0.94		24.9	mg/Kg-dry	1	4/7/2008 11:56:30 PM	LAL
Lead	NELAP	3.77		17.3	mg/Kg-dry	1	4/8/2008 2:31:53 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.188	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Anthracene	NELAP	0.004		0.011	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.016	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.026	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.052	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.051	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.015	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Chrysene	NELAP	0.004		0.016	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.014	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Fluoranthene	NELAP	0.004		0.017	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Fluorene	NELAP	0.004		0.007	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.043	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Naphthalene	NELAP	0.004		0.010	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Phenanthrene	NELAP	0.004		0.011	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Pyrene	NELAP	0.004		0.027	mg/Kg-dry	1	4/8/2008 9:07:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		69.5	%REC	1	4/8/2008 9:07:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		69.9	%REC	1	4/8/2008 9:07:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.3	%REC	1	4/8/2008 9:07:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		ND	µg/Kg-dry	1	4/9/2008 3:16:00 AM	JSA
Ethylbenzene	NELAP	5.8		ND	µg/Kg-dry	1	4/9/2008 3:16:00 AM	JSA
Toluene	NELAP	5.8		ND	µg/Kg-dry	1	4/9/2008 3:16:00 AM	JSA
Xylenes, Total	NELAP	5.8		ND	µg/Kg-dry	1	4/9/2008 3:16:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.8	%REC	1	4/9/2008 3:16:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.3	%REC	1	4/9/2008 3:16:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		98.9	%REC	1	4/9/2008 3:16:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.9	%REC	1	4/9/2008 3:16:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	4.93		52.4	mg/Kg-dry	10	4/7/2008	AET

ENVIRONMENTAL TESTING LABORATORY

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## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040186  
**Lab ID:** 08040186-012  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-822 @ 1-3 ft  
**Collection Date:** 4/1/2008 3:35:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		6.24		< 6.24	mg/Kg-dry	10	4/8/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

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FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040186

**Report Date:** 10-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date				
08040186-001A	B-814 @ 0-2 ft	4/1/2008	Solid	ASTM D2974		4/4/2008				
				ASTM D2974		4/4/2008				
				Standard Methods 18th Ed. 2540 G		4/4/2008				
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/7/2008				
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008				
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008				
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008				
				SW-846 9010B, 9014	4/4/2008	4/7/2008				
				SW-846 9014A	4/4/2008	4/8/2008				
				08040186-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040186-002A	B-814 @ 7-8 ft			ASTM D2974		4/4/2008				
				ASTM D2974		4/4/2008				
				Standard Methods 18th Ed. 2540 G		4/4/2008				
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/7/2008				
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/4/2008				
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008				
				SW-846 9010B, 9014	4/4/2008	4/7/2008				
				SW-846 9014A	4/4/2008	4/8/2008				
				08040186-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
				08040186-003A	B-814 @ 17-18 ft			ASTM D2974		4/4/2008
Standard Methods 18th Ed. 2540 G		4/4/2008								
SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008								

ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign  
**Lab Order:** 08040186  
**Report Date:** 10-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040186-003A	B-814 @ 17-18 ft	4/1/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040186-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040186-004A	B-816 @ 1-2 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/9/2008
08040186-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040186-005A	B-816 @ 9-10 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040186-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040186-006A	B-816 @ 19-21 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040186-006D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040186-007A	B-818 @ 2-3 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008



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**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign  
**Lab Order:** 08040186  
**Report Date:** 10-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040186-007A	B-818 @ 2-3 ft	4/1/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040186-007D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040186-008A	B-818 @ 7-9 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 9010B, 9014	4/4/2008	4/7/2008
				SW-846 9014A	4/4/2008	4/8/2008
08040186-008D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040186-009A	B-818 @ 13-15 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/7/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/8/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 9010B, 9014	4/4/2008	4/7/2008
				SW-846 9014A	4/4/2008	4/8/2008
08040186-009D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040186-010A	B-818 @ 24-26 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040186

**Report Date:** 10-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040186-010A	B-818 @ 24-26 ft	4/1/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040186-010D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040186-011A	B-822 @ 6-8 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed, 2540 G		4/4/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/7/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/8/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/5/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
				SW-846 9010B, 9014	4/4/2008	4/7/2008
				SW-846 9010B, 9014		4/8/2008
				SW-846 9014A	4/4/2008	4/8/2008
08040186-011D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/8/2008
08040186-012A	B-822 @ 1-3 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/7/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/8/2008
				SW-846 3050B, 6010B, Metals by ICP	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008

ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040186

**Report Date:** 10-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040186-012A	B-822 @ 1-3 ft	4/1/2008	Solid	SW-846 9010B, 9014		4/7/2008
				SW-846 9014A		4/8/2008
08040186-012D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

	Qualifiers			
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference	
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite	
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range	
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded	
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited	

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign

Lab Order: 08040186

Report Date: 10-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_ACN\_S\_MT

Sample ID: MB-43868	SampType: MBLK	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106511
Client ID: ZZZZZZ	Batch ID: 43868	SOP2092	Analysis Date: 4/8/2008	SeqNo: 1902016
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide, Amenable to Chlorination	< 0.50	0.50		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCS-43868	SampType: LCS	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106511
Client ID: ZZZZZZ	Batch ID: 43868	SOP2092	Analysis Date: 4/8/2008	SeqNo: 1902017
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide, Amenable to Chlorination	9.86	0.50	10.00	
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_OM\_D\_M

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040186      Report Date: 10-Apr-08

Sample ID: 08040186-001ADUP	SampType: DUP	Units: wt%	Prep Date:	RunNo: 106489							
Client ID: B-814 @ 0-2 ftDUP	Batch ID: R106489		Analysis Date: 4/4/2008	SeqNo: 1901305							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

FOC (0.58 conversion factor)	5.35	0.10	0.10	4.548	16.2	16.2	25	7.841	16.2	25	25
Organic Matter	9.23	0.10	0.10	7.841	16.2	16.2	25	7.841	16.2	25	25

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TCN\_S\_MT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

Sample ID: MB-43867	SampType: MBLK	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471							
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900925							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.01	0.01	0.2000	0	98.9	85	115				

Sample ID: LCS-43867	SampType: LCS	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471							
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.20	0.01	0.2000	0	98.9	85	115				

Sample ID: LCSD-43867	SampType: LCSD	Units: mg/Kg	Prep Date: 4/4/2008	RunNo: 106471							
Client ID: ZZZZZZ	Batch ID: 43867	SW9010	Analysis Date: 4/7/2008	SeqNo: 1900927							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.19	0.01	0.2000	0	97.3	85	115	0.1979	1.72	15	

Sample ID: 08040186-011AMS	SampType: MS	Units: mg/Kg-dry	Prep Date:	RunNo: 106589							
Client ID: B-822 @ 6-8 ftMS	Batch ID: R106589		Analysis Date: 4/8/2008	SeqNo: 1903736							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	35.4	6.33	6.332	33.07	37.0	80	120				S

Sample ID: 08040186-011AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date:	RunNo: 106589							
Client ID: B-822 @ 6-8 ftMSD	Batch ID: R106589		Analysis Date: 4/8/2008	SeqNo: 1903739							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	32.5	5.91	5.908	33.07	-9.8	80	120	35.41	8.61	20	S

Sample ID: MB-R106589	SampType: MBLK	Units: mg/Kg	Prep Date:	RunNo: 106589							
Client ID: ZZZZZZ	Batch ID: R106589		Analysis Date: 4/8/2008	SeqNo: 1904434							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TCN\_S\_MT

Client: Phillip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040186      Report Date: 10-Apr-08

Sample ID: MB-R106589	SampType: MBLK	Units: mg/Kg	Prep Date:	RunNo: 106589	
Client ID: ZZZZZZ	Batch ID: R106589		Analysis Date: 4/8/2008	SeqNo: 1904434	
Analyte	Result	PQL	SPK value	SPK Ref Val	Qual
Cyanide	< 0.01	0.01			
		%REC	LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit

Sample ID: LCS-R106589	SampType: LCS	Units: mg/Kg	Prep Date:	RunNo: 106589	
Client ID: ZZZZZZ	Batch ID: R106589		Analysis Date: 4/8/2008	SeqNo: 1904435	
Analyte	Result	PQL	SPK value	SPK Ref Val	Qual
Cyanide	0.20	0.01	0.2000	0	
		%REC	LowLimit	HighLimit	RPD Ref Val
			85	115	
					%RPD
					RPDLimit

Sample ID: LCSD-R106589	SampType: LCSD	Units: mg/Kg	Prep Date:	RunNo: 106589	
Client ID: ZZZZZZ	Batch ID: R106589		Analysis Date: 4/8/2008	SeqNo: 1904436	
Analyte	Result	PQL	SPK value	SPK Ref Val	Qual
Cyanide	0.20	0.01	0.2000	0	
		%REC	LowLimit	HighLimit	RPD Ref Val
			85	115	0.2027
					%RPD
					RPDLimit
					15



# ANALYTICAL QC SUMMARY REPORT

TestCode: L\_TS\_M\_MT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040186      Report Date: 10-Apr-08

Sample ID: LCS-R106413	SampType: LCS	Units: %	Prep Date:	RunNo: 106413							
Client ID: ZZZZZZ	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899672							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 106413							
Client ID: ZZZZZZ	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899673							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: 08040186-001ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106413							
Client ID: B-814 @ 0-2 ftDUP	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899719							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	47.2	0.1						53.62	12.7		15

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

Sample ID: MB-43859	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106443							
Client ID: ZZZZZZ	Batch ID: 43859	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901041							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-43859	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106443							
Client ID: ZZZZZZ	Batch ID: 43859	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901042							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	210	2.50	200.0	0	105.1	85	115				
Chromium	21.2	1.00	20.00	0	105.8	85	115				
Lead	52.1	4.00	50.00	0	104.2	85	115				

Sample ID: 08040186-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106443							
Client ID: B-814 @ 7-8 ftMS	Batch ID: 43859	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901385							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	196	2.45	196.1	10.14	94.7	75	125				
Chromium	36.5	0.98	19.61	14.23	113.5	75	125				
Lead	55.6	3.92	49.02	10.12	92.8	75	125				

Sample ID: 08040186-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106443							
Client ID: B-814 @ 7-8 ftMSD	Batch ID: 43859	SOP 3032	Analysis Date: 4/7/2008	SeqNo: 1901386							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	195	2.45	196.1	10.14	94.1	75	125	195.8	0.603	20	
Chromium	34.9	0.98	19.61	14.23	105.5	75	125	36.48	4.39	20	
Lead	54.6	3.92	49.02	10.12	90.8	75	125	55.61	1.76	20	

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040186      Report Date: 10-Apr-08

Sample ID: MB-43859	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106505							
Client ID: ZZZZZZ	Batch ID: 43859	SOP 3032	Analysis Date: 4/8/2008	SeqNo: 1902519							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-43859	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106505							
Client ID: ZZZZZZ	Batch ID: 43859	SOP 3032	Analysis Date: 4/8/2008	SeqNo: 1902520							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.1	4.00	50.00	0	92.1	85	115				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

Test Code: SV\_8270S\_S\_SIMS

Sample ID: <b>MB-43852</b>	Samp Type: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/4/2008</b>	RunNo: <b>106416</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43852</b>	<b>SW3550B</b>	Analysis Date: <b>4/4/2008</b>	SeqNo: <b>1899784</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.119		0.1670		71.5	17.5	123				
Surr: Nitrobenzene-d5	0.111		0.1670		66.7	35	105				
Surr: p-Terphenyl-d14	0.131		0.1670		78.2	53.6	122				

Sample ID: <b>MB-43877</b>	Samp Type: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/7/2008</b>	RunNo: <b>106478</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43877</b>	<b>SW3550B</b>	Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1900968</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>MB-43877</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/7/2008</b>	RunNo: <b>106478</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43877</b>	<b>SW3550B</b>	Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1900968</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.119		0.1670		71.5	17.5	123				
Surr: Nitrobenzene-d5	0.109		0.1670		65.3	35	105				
Surr: p-Terphenyl-d14	0.127		0.1670		76.0	53.6	122				

Sample ID: <b>LCS-43877</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/7/2008</b>	RunNo: <b>106478</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43877</b>	<b>SW3550B</b>	Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1900969</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.104	0.003	0.1670	0	62.5	56.3	115				
Acenaphthylene	0.122	0.003	0.1670	0	73.3	60.3	143				
Anthracene	0.103	0.003	0.1670	0	61.5	52.1	109				
Benzo(a)anthracene	0.101	0.003	0.1670	0	60.3	52.8	112				
Benzo(a)pyrene	0.107	0.003	0.1670	0	63.8	40.8	127				
Benzo(b)fluoranthene	0.125	0.003	0.1670	0	74.6	50.1	150				
Benzo(g,h,i)perylene	0.123	0.003	0.1670	0	73.6	52.8	145				
Benzo(k)fluoranthene	0.124	0.003	0.1670	0	74.5	52	153				
Chrysene	0.112	0.003	0.1670	0	66.9	60.8	128				
Dibenzo(a,h)anthracene	0.120	0.003	0.1670	0	71.8	54.9	150				
Fluoranthene	0.109	0.003	0.1670	0	65.3	58.7	125				
Fluorene	0.108	0.003	0.1670	0	64.9	57.8	125				
Indeno(1,2,3-cd)pyrene	0.119	0.003	0.1670	0	71.4	52	147				
Naphthalene	0.092	0.003	0.1670	0	55.1	54.8	113				

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

Sample ID: LCS-43877	SampType: LCS	Units: mg/Kg	RunNo: 106478
Client ID: ZZZZZZ	Batch ID: 43877	SW3550B	SeqNo: 1900969
Analyte	Result	PQL	SPK value
Phenanthrene	0.110	0.003	0.1670
Pyrene	0.111	0.003	0.1670
Surr: 2-Fluorobiphenyl	0.115		0.1670
Surr: Nitrobenzene-d5	0.099		0.1670
Surr: p-Terphenyl-d14	0.118		0.1670
	%REC	LowLimit	HighLimit
	65.6	60.4	121
	66.4	57.9	129
	68.7	35.3	113
	59.5	33.9	108
	70.5	58.4	122
	%RPD	RPD Ref Val	RPDLimit
			Qual

Sample ID: MB-43881	SampType: MBLK	Units: mg/Kg	RunNo: 106478
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	SeqNo: 1901585
Analyte	Result	PQL	SPK value
Acenaphthene	ND	0.003	
Acenaphthylene	ND	0.003	
Anthracene	ND	0.003	
Benzo(a)anthracene	ND	0.003	
Benzo(a)pyrene	ND	0.003	
Benzo(b)fluoranthene	ND	0.003	
Benzo(g,h,i)perylene	ND	0.003	
Benzo(k)fluoranthene	ND	0.003	
Chrysene	ND	0.003	
Dibenzo(a,h)anthracene	ND	0.003	
Fluoranthene	ND	0.003	
Fluorene	ND	0.003	
Indeno(1,2,3-cd)pyrene	ND	0.003	
Naphthalene	ND	0.003	
Phenanthrene	ND	0.003	
Pyrene	ND	0.003	
Surr: 2-Fluorobiphenyl	0.123		0.1670
Surr: Nitrobenzene-d5	0.114		0.1670
Surr: p-Terphenyl-d14	0.124		0.1670
	%REC	LowLimit	HighLimit
	73.9	17.5	123
	68.1	35	105
	74.5	53.6	122
	%RPD	RPD Ref Val	RPDLimit
			Qual

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: LCS-43881	SampType: LCS	Units: mg/Kg	RunNo: 106478
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	SeqNo: 1901586
Analyte	Result	PQL	SPK value
		SPK Ref Val	SPK Ref Val
		%REC	HighLimit
		LowLimit	RPD Ref Val
		%RPD	RPDLimit
			Qual

Acenaphthene	0.110	0.003	0.1670	0	66.1	56.3	115	
Acenaphthylene	0.134	0.003	0.1670	0	80.5	60.3	143	
Anthracene	0.106	0.003	0.1670	0	63.2	52.1	109	
Benzo(a)anthracene	0.109	0.003	0.1670	0	65.0	52.8	112	
Benzo(a)pyrene	0.111	0.003	0.1670	0	66.6	40.8	127	
Benzo(b)fluoranthene	0.126	0.003	0.1670	0	75.3	50.1	150	
Benzo(g,h,i)perylene	0.123	0.003	0.1670	0	73.6	52.8	145	
Benzo(k)fluoranthene	0.128	0.003	0.1670	0	76.9	52	153	
Chrysene	0.120	0.003	0.1670	0	71.6	60.8	128	
Dibenzo(a,h)anthracene	0.122	0.003	0.1670	0	73.1	54.9	150	
Fluoranthene	0.114	0.003	0.1670	0	68.4	58.7	125	
Fluorene	0.116	0.003	0.1670	0	69.6	57.8	125	
Indeno(1,2,3-cd)pyrene	0.120	0.003	0.1670	0	71.9	52	147	
Naphthalene	0.091	0.003	0.1670	0	54.7	54.8	113	S
Phenanthrene	0.115	0.003	0.1670	0	68.8	60.4	121	
Pyrene	0.117	0.003	0.1670	0	70.2	57.9	129	
Surr: 2-Fluorobiphenyl	0.115		0.1670		69.1	35.3	113	
Surr: Nitrobenzene-d5	0.106		0.1670		63.7	33.9	108	
Surr: p-Terphenyl-d14	0.118		0.1670		70.7	58.4	122	

Sample ID: 08040186-012AMS	SampType: MS	Units: mg/Kg-dry	RunNo: 106554
Client ID: B-822 @ 1-3 ftMS	Batch ID: 43881	SW3550B	SeqNo: 1902986
Analyte	Result	PQL	SPK value
		SPK Ref Val	SPK Ref Val
		%REC	HighLimit
		LowLimit	RPD Ref Val
		%RPD	RPDLimit
			Qual

Acenaphthene	0.144	0.004	0.2080	0	69.1	36	135	
Acenaphthylene	0.362	0.004	0.2080	0.1880	83.5	17.2	167	
Anthracene	0.156	0.004	0.2080	0.01065	70.1	39.3	124	
Benzo(a)anthracene	0.164	0.004	0.2080	0.01552	71.6	10	183	
Benzo(a)pyrene	0.184	0.004	0.2080	0.02646	75.8	10	204	
Benzo(b)fluoranthene	0.224	0.004	0.2080	0.05175	82.7	10.6	178	
Benzo(g,h,i)perylene	0.193	0.004	0.2080	0.05100	68.2	10	168	

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

Sample ID: 08040186-012AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106554							
Client ID: B-822 @ 1-3 ftMS	Batch ID: 43881	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902986							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.185	0.004	0.2080	0.01518	81.6	27.6	181				
Chrysene	0.188	0.004	0.2080	0.01639	82.7	10	176				
Dibenzo(a,h)anthracene	0.163	0.004	0.2080	0.01414	71.7	12.2	156				
Fluoranthene	0.183	0.004	0.2080	0.01730	79.6	10	227				
Fluorene	0.151	0.004	0.2080	0.007488	69.1	35.2	148				
Indeno(1,2,3-cd)pyrene	0.198	0.004	0.2080	0.04276	74.5	10	164				
Naphthalene	0.132	0.004	0.2080	0.009609	58.7	14.7	128				
Phenanthrene	0.159	0.004	0.2080	0.01131	71.2	32.8	143				
Pyrene	0.195	0.004	0.2080	0.02658	81.2	10	180				
Surr: 2-Fluorobiphenyl	0.163		0.2080		78.2	10	131				
Surr: Nitrobenzene-d5	0.153		0.2080		73.5	10	132				
Surr: p-Terphenyl-d14	0.176		0.2080		84.6	30.6	131				

Sample ID: 08040186-012AMS	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106554							
Client ID: B-822 @ 1-3 ftMSD	Batch ID: 43881	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902987							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Acenaphthene	0.143	0.004	0.2099	0	67.9	36	135	0.1437	0.766	49.7	
Acenaphthylene	0.297	0.004	0.2099	0.1880	51.9	17.2	167	0.3617	19.7	33.3	
Anthracene	0.145	0.004	0.2099	0.01065	63.9	39.3	124	0.1565	7.83	51.1	
Benzo(a)anthracene	0.150	0.004	0.2099	0.01552	63.9	10	183	0.1644	9.36	40.6	
Benzo(a)pyrene	0.164	0.004	0.2099	0.02646	65.7	10	204	0.1842	11.4	56.4	
Benzo(b)fluoranthene	0.192	0.004	0.2099	0.05175	67.0	10.6	178	0.2237	15.1	49.7	
Benzo(g,h,i)perylene	0.166	0.004	0.2099	0.05100	55.0	10	168	0.1929	14.8	36.5	
Benzo(k)fluoranthene	0.174	0.004	0.2099	0.01518	75.8	27.6	181	0.1850	6.03	42.6	
Chrysene	0.170	0.004	0.2099	0.01639	73.1	10	176	0.1883	10.4	45.1	
Dibenzo(a,h)anthracene	0.156	0.004	0.2099	0.01414	67.4	12.2	156	0.1632	4.84	39.9	
Fluoranthene	0.162	0.004	0.2099	0.01730	68.9	10	227	0.1829	12.2	66.2	
Fluorene	0.148	0.004	0.2099	0.007488	66.9	35.2	148	0.1512	2.20	65.6	
Indeno(1,2,3-cd)pyrene	0.174	0.004	0.2099	0.04276	62.4	10	164	0.1977	13.0	36.5	
Naphthalene	0.119	0.004	0.2099	0.009609	52.2	14.7	128	0.1318	9.97	39.6	



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08040186-012AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106554							
Client ID: B-822 @ 1-3 ftMSD	Batch ID: 43881	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902987							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.158	0.004	0.2099	0.01131	69.8	32.8	143	0.1594	1.08	35.4	
Pyrene	0.168	0.004	0.2099	0.02658	67.2	10	180	0.1955	15.3	60.1	
Surr: 2-Fluorobiphenyl	0.153		0.2099		73.1	10	131		0	40	
Surr: Nitrobenzene-d5	0.150		0.2099		71.7	10	132		0	40	
Surr: p-Terphenyl-d14	0.164		0.2099		78.2	30.6	131		0	40	

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040186      Report Date: 10-Apr-08

Sample ID: LCS-G080408-1	SampType: LCS	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902238							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.2	1.0	50.00	0	100.3	75	123				
Toluene	50.4	5.0	50.00	0	100.7	77.3	117				
Ethylbenzene	51.8	5.0	50.00	0	103.6	80.8	118				
Xylenes, Total	104	5.0	100.0	0	104.4	78.5	121				
Surr: 1,2-Dichloroethane-d4	50.1		50.00		100.1	61	128				
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	78.2	117				
Surr: Dibromofluoromethane	51.7		50.00		103.4	66.6	130				
Surr: Toluene-d8	49.7		50.00		99.4	80.1	122				

Sample ID: LCSD-G080408-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902239							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.2	1.0	50.00	0	100.3	75	123	50.15	0	20	
Toluene	50.2	5.0	50.00	0	100.3	77.3	117	50.35	0.358	20	
Ethylbenzene	52.0	5.0	50.00	0	104.1	80.8	118	51.78	0.482	20	
Xylenes, Total	103	5.0	100.0	0	103.4	78.5	121	104.4	0.963	20	
Surr: 1,2-Dichloroethane-d4	51.1		50.00		102.2	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.1		50.00		98.2	78.2	117		0	0	
Surr: Dibromofluoromethane	50.9		50.00		101.9	66.6	130		0	0	
Surr: Toluene-d8	49.8		50.00		99.6	80.1	122		0	0	

Sample ID: MBLK-G080408-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/8/2008	RunNo: 106524							
Client ID: ZZZZZZ	Batch ID: 43917	SW5035	Analysis Date: 4/8/2008	SeqNo: 1902241							
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									

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040186      Report Date: 10-Apr-08

Sample ID: <b>MBLK-G080408-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106524</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43917</b>	<b>SW5035</b>	Analysis Date: <b>4/8/2008</b>	SeqNo: <b>1902241</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	48.5		50.00		97.1	61	128				
Surr: 4-Bromofluorobenzene	47.9		50.00		95.8	78.2	117				
Surr: Dibromofluoromethane	50.4		50.00		100.9	66.6	130				
Surr: Toluene-d8	49.2		50.00		98.3	80.1	122				

Sample ID: <b>LCS-G080408-2</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903051</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.2	1.0	50.00	0	94.5	75	123				
Toluene	46.8	5.0	50.00	0	93.5	77.3	117				
Ethylbenzene	48.2	5.0	50.00	0	96.4	80.8	118				
Xylenes, Total	95.6	5.0	100.0	0	95.6	78.5	121				
Surr: 1,2-Dichloroethane-d4	48.7		50.00		97.3	61	128				
Surr: 4-Bromofluorobenzene	49.7		50.00		99.4	78.2	117				
Surr: Dibromofluoromethane	49.5		50.00		98.9	66.6	130				
Surr: Toluene-d8	48.8		50.00		97.7	80.1	122				

Sample ID: <b>LCSD-G080408-2</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903052</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.2	1.0	50.00	0	98.4	75	123	47.24	4.02	20	
Toluene	48.0	5.0	50.00	0	95.9	77.3	117	46.77	2.53	20	
Ethylbenzene	49.2	5.0	50.00	0	98.5	80.8	118	48.22	2.09	20	
Xylenes, Total	98.5	5.0	100.0	0	98.5	78.5	121	95.64	2.96	20	
Surr: 1,2-Dichloroethane-d4	47.8		50.00		95.6	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.5		50.00		99.1	78.2	117		0	0	
Surr: Dibromofluoromethane	49.8		50.00		99.5	66.6	130		0	0	
Surr: Toluene-d8	48.7		50.00		97.4	80.1	122		0	0	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040186 Report Date: 10-Apr-08

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-G080408-2</b>	Samp Type: <b>MBLK</b>	Units: <b>µg/Kg</b>	RunNo: <b>106557</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	SeqNo: <b>1903054</b>
Prep Date: <b>4/8/2008</b>		Analysis Date: <b>4/9/2008</b>	

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	47.0		50.00		93.9	61	128				
Surr: 4-Bromofluorobenzene	48.8		50.00		97.6	78.2	117				
Surr: Dibromofluoromethane	49.2		50.00		98.5	66.6	130				
Surr: Toluene-d8	49.5		50.00		99.0	80.1	122				

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## RECEIVING CHECK LIST

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040186

**Report Date:** 10-Apr-08

**Carrier:** Derek Ingram

**Received By:** AMH

**Completed by:**

**On:**

03-Apr-08

*A. Harris*  
Amanda M. Harris

**Reviewed by:**

**On:**

04-Apr-08

*Marvin L. Darling II*  
Marvin L. Darling

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 2.6
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.

Per Derek Ingram, combine any samples that have depths within three ft. Round sample ID's to nearest whole foot AMH 4/3/08



# Chain of Custody Record

210 West Sand Bank Road  
 P.O. Box 230  
 Columbia, IL 62236-0230

COC Serial No. **B** 08660

08040186

Project Name: <u>Ameren IP Champaign</u>	Project Mgr.: <u>Derek Ingram</u>	Analyses by Method Name and Number	Total Number of Containers	Matrix				Date	Time	Comments (Field PID)	Lab ID #'s
				Soil	Water	Air	Wipes				
Project Number: <u>102403053</u>	Cost Code: <u>024501</u>	9015 Metals * PHTS 8270SIMS BTEX 8260B	4	X	X	X	X	4-1	9:05	*Metals - arsenic, chromium, lead	001
Sampler(s): <u>L. Hoosier</u>	Name: <u>Teklab</u>	9014 Cyanide 7014 PHT 9045C	2	X	X	X	X	4-1	9:05		
	Location: <u>Collinsville IL</u>		4	X	X	X	X	4-1	9:40		002
			2	X	X	X	X	4-1	9:40		
			5	X	X	X	X	4-1	10:30		003
			5	X	X	X	X	4-1	10:30		
			4	X	X	X	X	4-1	11:20		004
			1	X	X	X	X	4-1	11:20	Rec. D. Ingram Combine	
			1	X	X	X	X	4-1	11:20	any depths within the same 3ft. 4/308AMB	
			4	X	X	X	X	4-1	12:10		
			4	X	X	X	X	4-1	12:16		
			1	X	X	X	X	4-1	12:16		005

Laboratory Temperature upon Receipt  
2.6

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other \_\_\_\_\_

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other \_\_\_\_\_

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature [Signature] Date 4-3-08 Time 1400

**Received by:** Signature [Signature] Date 4/3/08 Time 1730



# Chain of Custody Record

210 West Sand Bank Road (618) 281-7173 Phone  
 P.O. Box 230 (800) 733-7173  
 Columbia, IL 62236-0230 (618) 281-5120 Fax

COC Serial No. **B** 08861

Project Name: Ameren IP Champaign Project Mgr.: Debbie Ingraham  
 Project Number: 12403053 Cost Code: 024501

Laboratory	Name	Location	Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers	Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s	Laboratory Temperature upon Receipt
						Soil	Water	Air	Wipes					
	L. Hoosier	Colliersville IL	B-816 (19'-21')	4-1	1330	X				5	PAH 8270SIMS 5035 826CB			2.6
	Teklab		B-818 (21'-3')	4-1	1345	X				5	Metals* Cyanide 90H for D2974-87 PT 9045C	*Metals: arsenic, chromium, 007 lead 008	006	
			B-818 (7.5'-8')	4-1	1405	X				4				
			B-818 (8'-9')	4-1	1405	X				2				
			B-818 (14'-14.5')	4-1	1438	X				4				
			B-818 (13'-15')	4-1	1438	X				2				
			B-818 (24.5'-25')	4-1	1518	X				4				
			B-818 (25'-26')	4-1	1518	X				1				
			B-822 (1.5'-3')	4-1	1535	X				2				
			B-822 (2'-2.5')	4-1	1535	X				4				
			B-822 (6'-7')	4-1	1611	X				1				
			B-822 (7'-8')	4-1	1611	X				1				

Requested TAT:  Rush  5 Days  STD  Other \_\_\_\_\_  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other \_\_\_\_\_  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**  
 Volatile Organics ..... Hydrochloric acid (HCl)  
 VOC Soil (5035) ..... Sodium Bisulfate/Methanol  
 TPH ..... Hydrochloric acid and/or Sulfuric acid  
 Metals ..... Nitric acid (HNO<sub>3</sub>)  
 Cyanide ..... Sodium hydroxide (NaOH)  
 Other (Specify) .....

**Relinquished by:** Signature Debbie Hoosier Date 4-3-08 Time 1400  
 Signature Derek Ingram Date 4/3 Time 1730

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Received by:** Signature Derek Ingram Date 4/3 Time 1730  
 Signature Debbie Hoosier Date 4/3 Time 1400

**Shipping:** Distribution: WHITE to Lab CANARY to PM PINK to QA/QC GREEN to Sampler  
 PE-170 (6/03)

Shaded Areas to be Completed by Lab

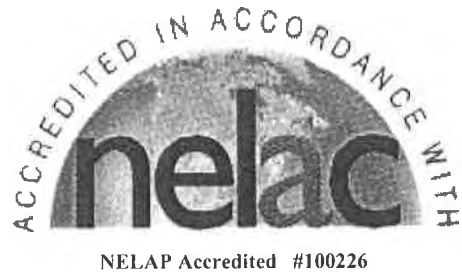
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 10, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign

**WorkOrder:** 08040187

Dear Derek Ingram:

TEKLAB, INC received 5 samples on 4/3/2008 5:30:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**Lab Order:** 08040187

**Report Date:** 10-Apr-08

## SAMPLE SUMMARY

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040187-001	B-827 @ 2-3 ft	4	4/2/2008 10:14:00 AM
08040187-002	B-827 @ 7-8 ft	4	4/2/2008 10:42:00 AM
08040187-003	B-827 @ 12-13 ft	4	4/2/2008 11:22:00 AM
08040187-004	B-827 @ 12-13 ft DUP	4	4/2/2008 11:22:00 AM
08040187-005	B-827 @ 26-28 ft	4	4/2/2008 12:10:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign

**LabOrder:** 08040187

**Report Date:** 10-Apr-08

## CASE NARRATIVE

**Cooler Receipt Temp:** 2.8 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040187  
**Lab ID:** 08040187-001  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-827 @ 2-3 ft  
**Collection Date:** 4/2/2008 10:14:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.3	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.7	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.010	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Anthracene	NELAP	0.004		0.009	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.033	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.026	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.026	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.016	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.028	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Chrysene	NELAP	0.004		0.034	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Fluoranthene	NELAP	0.004		0.054	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.016	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Phenanthrene	NELAP	0.004		0.035	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Pyrene	NELAP	0.004		0.049	mg/Kg-dry	1	4/7/2008 4:04:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		52.3	%REC	1	4/7/2008 4:04:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		58.1	%REC	1	4/7/2008 4:04:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		70.7	%REC	1	4/7/2008 4:04:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.6		ND	µg/Kg-dry	1	4/9/2008 3:47:00 AM	JSA
Ethylbenzene	NELAP	8.0		ND	µg/Kg-dry	1	4/9/2008 3:47:00 AM	JSA
Toluene	NELAP	8.0		ND	µg/Kg-dry	1	4/9/2008 3:47:00 AM	JSA
Xylenes, Total	NELAP	8.0		ND	µg/Kg-dry	1	4/9/2008 3:47:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.2	%REC	1	4/9/2008 3:47:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.5	%REC	1	4/9/2008 3:47:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		100	%REC	1	4/9/2008 3:47:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.6	%REC	1	4/9/2008 3:47:00 AM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040187  
**Lab ID:** 08040187-002  
**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-827 @ 7-8 ft  
**Collection Date:** 4/2/2008 10:42:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.4	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.6	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.008		0.031	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Acenaphthylene	NELAP	0.008		0.072	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Anthracene	NELAP	0.008		0.016	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Benzo(a)anthracene	NELAP	0.008		0.019	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Benzo(a)pyrene	NELAP	0.008		0.059	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.008		0.082	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.008		0.053	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.008		0.019	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Chrysene	NELAP	0.008		0.018	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.008		0.015	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Fluoranthene	NELAP	0.008		0.019	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Fluorene	NELAP	0.008		0.043	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.008		0.047	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Naphthalene	NELAP	0.008		ND	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Phenanthrene	NELAP	0.008	J	0.008	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Pyrene	NELAP	0.008		0.099	mg/Kg-dry	2	4/8/2008 8:22:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		57.1	%REC	2	4/8/2008 8:22:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		65.1	%REC	2	4/8/2008 8:22:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.9	%REC	2	4/8/2008 8:22:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	22.7		ND	µg/Kg-dry	12.5	4/9/2008 4:48:00 AM	JSA
Ethylbenzene	NELAP	113		ND	µg/Kg-dry	12.5	4/9/2008 4:48:00 AM	JSA
Toluene	NELAP	113		ND	µg/Kg-dry	12.5	4/9/2008 4:48:00 AM	JSA
Xylenes, Total	NELAP	113		ND	µg/Kg-dry	12.5	4/9/2008 4:48:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	138.9	%REC	12.5	4/9/2008 4:48:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		107.5	%REC	12.5	4/9/2008 4:48:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130	S	172.9	%REC	12.5	4/9/2008 4:48:00 AM	JSA
Surr: Toluene-d8		80.1-122		110.3	%REC	12.5	4/9/2008 4:48:00 AM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040187

**Lab ID:** 08040187-002

**Report Date:** 10-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-827 @ 7-8 ft

**Collection Date:** 4/2/2008 10:42:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
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Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040187

Lab ID: 08040187-003

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-827 @ 12-13 ft

Collection Date: 4/2/2008 11:22:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		16.8	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		83.2	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.008		0.184	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Acenaphthylene	NELAP	0.008		0.354	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Anthracene	NELAP	0.008		0.056	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Benzo(a)anthracene	NELAP	0.008		0.131	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Benzo(a)pyrene	NELAP	0.008		0.074	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.008		0.076	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.008		0.038	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.008		0.028	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Chrysene	NELAP	0.008		0.131	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.008		0.010	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Fluoranthene	NELAP	0.008		0.402	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Fluorene	NELAP	0.008		0.366	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.008		0.031	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Naphthalene	NELAP	0.008		0.009	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Phenanthrene	NELAP	0.008		0.023	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Pyrene	NELAP	0.008		0.553	mg/Kg-dry	2	4/7/2008 7:54:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		61.5	%REC	2	4/7/2008 7:54:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		51.9	%REC	2	4/7/2008 7:54:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.5	%REC	2	4/7/2008 7:54:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		4.8	µg/Kg-dry	1	4/9/2008 5:18:00 AM	JSA
Ethylbenzene	NELAP	4.2		7.3	µg/Kg-dry	1	4/9/2008 5:18:00 AM	JSA
Toluene	NELAP	4.2		8.4	µg/Kg-dry	1	4/9/2008 5:18:00 AM	JSA
Xylenes, Total	NELAP	4.2		14.4	µg/Kg-dry	1	4/9/2008 5:18:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.9	%REC	1	4/9/2008 5:18:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.6	%REC	1	4/9/2008 5:18:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		100.8	%REC	1	4/9/2008 5:18:00 AM	JSA
Surr: Toluene-d8		80.1-122		99.5	%REC	1	4/9/2008 5:18:00 AM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040187

Lab ID: 08040187-004

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-827 @ 12-13 ft DUP

Collection Date: 4/2/2008 11:22:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.6	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.4	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.039		0.775	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Acenaphthylene	NELAP	0.039		2.54	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Anthracene	NELAP	0.039		0.681	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Benzo(a)anthracene	NELAP	0.039		1.81	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Benzo(a)pyrene	NELAP	0.039		1.51	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.039		1.55	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.039		0.598	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.039		0.540	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Chrysene	NELAP	0.039		1.74	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.039		0.187	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Fluoranthene	NELAP	0.039		3.41	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Fluorene	NELAP	0.039		2.55	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.039		0.553	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Naphthalene	NELAP	0.039		0.051	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Phenanthrene	NELAP	0.039		1.77	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Pyrene	NELAP	0.039		4.90	mg/Kg-dry	10	4/8/2008 8:57:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		43.9	%REC	10	4/8/2008 8:57:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		43.9	%REC	10	4/8/2008 8:57:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		61.9	%REC	10	4/8/2008 8:57:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.3		4.2	µg/Kg-dry	1	4/9/2008 2:38:00 PM	JSA
Ethylbenzene	NELAP	6.4		6.5	µg/Kg-dry	1	4/9/2008 2:38:00 PM	JSA
Toluene	NELAP	6.4		9.7	µg/Kg-dry	1	4/9/2008 2:38:00 PM	JSA
Xylenes, Total	NELAP	6.4		14.4	µg/Kg-dry	1	4/9/2008 2:38:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.2	%REC	1	4/9/2008 2:38:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		97.0	%REC	1	4/9/2008 2:38:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		100.2	%REC	1	4/9/2008 2:38:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.7	%REC	1	4/9/2008 2:38:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040187

Lab ID: 08040187-005

Report Date: 10-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-827 @ 26-28 ft

Collection Date: 4/2/2008 12:10:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		18.4	%	1	4/4/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.6	%	1	4/4/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.041		0.547	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Acenaphthylene	NELAP	0.041		2.21	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Anthracene	NELAP	0.041		0.303	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Benzo(a)anthracene	NELAP	0.041		0.971	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Benzo(a)pyrene	NELAP	0.041		0.776	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.041		0.509	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.041		0.358	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.041		0.519	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Chrysene	NELAP	0.041		0.896	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.041		0.108	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Fluoranthene	NELAP	0.041		1.69	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Fluorene	NELAP	0.041		1.21	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.041		0.317	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Naphthalene	NELAP	0.041		ND	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Phenanthrene	NELAP	0.041		1.18	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Pyrene	NELAP	0.041		2.39	mg/Kg-dry	10	4/7/2008 5:25:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		67.9	%REC	10	4/7/2008 5:25:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		55.9	%REC	10	4/7/2008 5:25:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		75.8	%REC	10	4/7/2008 5:25:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		6.5	µg/Kg-dry	1	4/9/2008 6:18:00 AM	JSA
Ethylbenzene	NELAP	5.0		20.9	µg/Kg-dry	1	4/9/2008 6:18:00 AM	JSA
Toluene	NELAP	5.0		8.2	µg/Kg-dry	1	4/9/2008 6:18:00 AM	JSA
Xylenes, Total	NELAP	5.0		21.2	µg/Kg-dry	1	4/9/2008 6:18:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		75.8	%REC	1	4/9/2008 6:18:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		108.8	%REC	1	4/9/2008 6:18:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		80.3	%REC	1	4/9/2008 6:18:00 AM	JSA
Surr: Toluene-d8		80.1-122		109.2	%REC	1	4/9/2008 6:18:00 AM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign  
**Lab Order:** 08040187  
**Report Date:** 10-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040187-001A	B-827 @ 2-3 ft	4/2/2008	Solid	ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040187-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040187-002A	B-827 @ 7-8 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040187-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040187-003A	B-827 @ 12-13 ft			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040187-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
08040187-004A	B-827 @ 12-13 ft DUP			ASTM D2974		4/4/2008
				Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040187-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040187-005A	B-827 @ 26-28 ft			ASTM D2974		4/4/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**Project:** A831-735002-012901-225/IP Champaign**Lab Order:** 08040187**Report Date:** 10-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040187-005A	B-827 @ 26-28 fl	4/2/2008	Solid	Standard Methods 18th Ed. 2540 G		4/4/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/4/2008	4/6/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040187-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/8/2008	4/9/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

		Qualifiers			
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference		
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite		
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range		
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded		
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited		

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040187      Report Date: 10-Apr-08

TestCode: I\_TS\_M\_MT

Sample ID: LCS-R106413	SampType: LCS	Units: %	Prep Date:	RunNo: 106413							
Client ID: ZZZZZZ	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899672							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 106413							
Client ID: ZZZZZZ	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899673							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: 08040187-001ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106413							
Client ID: B-827 @ 2-3 fdUP	Batch ID: R106413		Analysis Date: 4/4/2008	SeqNo: 1899706							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	77.6	0.1						77.66	0.0386		15

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040187 Report Date: 10-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: MB-43881	Sample Type: MBLK	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1901585							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.123		0.1670		73.9	17.5	123				
Surr: Nitrobenzene-d5	0.114		0.1670		68.1	35	105				
Surr: p-Terphenyl-d14	0.124		0.1670		74.5	53.6	122				

Sample ID: LCS-43881	Sample Type: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1901586							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.110	0.003	0.1670	0	66.1	56.3	115				
Acenaphthylene	0.134	0.003	0.1670	0	80.5	60.3	143				
Anthracene	0.106	0.003	0.1670	0	63.2	52.1	109				
Benzo(a)anthracene	0.109	0.003	0.1670	0	65.0	52.8	112				
Benzo(a)pyrene	0.111	0.003	0.1670	0	66.6	40.8	127				
Benzo(b)fluoranthene	0.126	0.003	0.1670	0	75.3	50.1	150				
Benzo(g,h,i)perylene	0.123	0.003	0.1670	0	73.6	52.8	145				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040187 Report Date: 10-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: LCS-43881	Samp Type: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1901586							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.128	0.003	0.1670	0	76.9	52	153				
Chrysene	0.120	0.003	0.1670	0	71.6	60.8	128				
Dibenzo(a,h)anthracene	0.122	0.003	0.1670	0	73.1	54.9	150				
Fluoranthene	0.114	0.003	0.1670	0	68.4	58.7	125				
Fluorene	0.116	0.003	0.1670	0	69.6	57.8	125				
Indeno(1,2,3-cd)pyrene	0.120	0.003	0.1670	0	71.9	52	147				S
Naphthalene	0.091	0.003	0.1670	0	54.7	54.8	113				
Phenanthrene	0.115	0.003	0.1670	0	68.8	60.4	121				
Pyrene	0.117	0.003	0.1670	0	70.2	57.9	129				
Surr: 2-Fluorobiphenyl	0.115		0.1670		69.1	35.3	113				
Surr: Nitrobenzene-d5	0.106		0.1670		63.7	33.9	108				
Surr: p-Terphenyl-d14	0.118		0.1670		70.7	58.4	122				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040187 Report Date: 10-Apr-08

TestCode: V\_BTEX\_S

Sample ID: <b>LCS-G080408-2</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903051</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.2	1.0	50.00	0	94.5	75	123				
Toluene	46.8	5.0	50.00	0	93.5	77.3	117				
Ethylbenzene	48.2	5.0	50.00	0	96.4	80.8	118				
Xylenes, Total	95.6	5.0	100.0	0	95.6	78.5	121				
Surr: 1,2-Dichloroethane-d4	48.7		50.00		97.3	61	128				
Surr: 4-Bromofluorobenzene	49.7		50.00		99.4	78.2	117				
Surr: Dibromofluoromethane	49.5		50.00		98.9	66.6	130				
Surr: Toluene-d8	48.8		50.00		97.7	80.1	122				

Sample ID: <b>LCSD-G080408-2</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903052</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.2	1.0	50.00	0	98.4	75	123	47.24	4.02	20	
Toluene	48.0	5.0	50.00	0	95.9	77.3	117	46.77	2.53	20	
Ethylbenzene	49.2	5.0	50.00	0	98.5	80.8	118	48.22	2.09	20	
Xylenes, Total	98.5	5.0	100.0	0	98.5	78.5	121	95.64	2.96	20	
Surr: 1,2-Dichloroethane-d4	47.8		50.00		95.6	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.5		50.00		99.1	78.2	117		0	0	
Surr: Dibromofluoromethane	49.8		50.00		99.5	66.6	130		0	0	
Surr: Toluene-d8	48.7		50.00		97.4	80.1	122		0	0	

Sample ID: <b>MBLK-G080408-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903054</b>							
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									

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign  
 Lab Order: 08040187      Report Date: 10-Apr-08

Sample ID: <b>MBLK-G080408-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/8/2008</b>	RunNo: <b>106557</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43936</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903054</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	47.0		50.00		93.9	61	128				
Surr: 4-Bromofluorobenzene	48.8		50.00		97.6	78.2	117				
Surr: Dibromofluoromethane	49.2		50.00		98.5	66.6	130				
Surr: Toluene-d8	49.5		50.00		99.0	80.1	122				

Sample ID: <b>LCS-G080409-1</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106598</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43954</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903869</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.5	1.0	50.00	0	97.0	75	123				
Toluene	48.3	5.0	50.00	0	96.7	77.3	117				
Ethylbenzene	50.7	5.0	50.00	0	101.4	80.8	118				
Xylenes, Total	101	5.0	100.0	0	100.9	78.5	121				
Surr: 1,2-Dichloroethane-d4	46.7		50.00		93.3	61	128				
Surr: 4-Bromofluorobenzene	49.4		50.00		98.8	78.2	117				
Surr: Dibromofluoromethane	48.8		50.00		97.6	66.6	130				
Surr: Toluene-d8	49.4		50.00		98.9	80.1	122				

Sample ID: <b>LCSD-G080409-1</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106598</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43954</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903870</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.0	1.0	50.00	0	103.9	75	123	48.50	6.91	20	
Toluene	51.7	5.0	50.00	0	103.4	77.3	117	48.33	6.74	20	
Ethylbenzene	53.6	5.0	50.00	0	107.2	80.8	118	50.72	5.48	20	
Xylenes, Total	107	5.0	100.0	0	106.7	78.5	121	100.9	5.65	20	
Surr: 1,2-Dichloroethane-d4	48.2		50.00		96.5	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	78.2	117		0	0	
Surr: Dibromofluoromethane	49.5		50.00		99.0	66.6	130		0	0	
Surr: Toluene-d8	48.6		50.00		97.2	80.1	122		0	0	



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign  
 Lab Order: 08040187      Report Date: 10-Apr-08

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-G080409-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	RunNo: <b>106598</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43954</b>	<b>SW5035</b>	SeqNo: <b>1903871</b>
		Prep Date: <b>4/9/2008</b>	
		Analysis Date: <b>4/9/2008</b>	

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	46.9		50.00		93.9	61	128				
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	78.2	117				
Surr: Dibromofluoromethane	47.9		50.00		95.8	66.6	130				
Surr: Toluene-d8	49.0		50.00		98.1	80.1	122				


ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

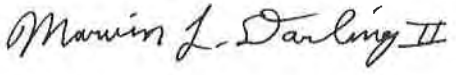
FAX: 618-344-1005

**Client:** Philip Environmental**RECEIVING CHECK LIST****Project:** A831-735002-012901-225/IP Champaign**Lab Order:** 08040187**Report Date:** 10-Apr-08**Carrier:** Derek Ingram**Received By:** AMH**Completed by:****On:**

03-Apr-08

  
Amanda M. Harris**Reviewed by:****On:**

04-Apr-08

  
Marvin L. DarlingPages to follow: Chain of custody Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 2.8
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<div style="border: 1px solid black; padding: 2px;"><i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i></div>				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.

Per Derek Ingram, combine any samples that have depths within three ft. Round sample ID's to nearest whole foot. AMH 4/3/08



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08040187

COC Serial No. **B** 08863

Project Name: Amen IP Campaign Project Mgr.: Derek Ingram

Project Number: 62403053 Cost Code: 014501

Sampler(s): L. Hoover

Laboratory Name: Teklab

Location: Collinsville IL

Sample Number and (depth)	Date	Time	Matrix					Total Number of Containers
			Soil	Water	Air	Wipes	Other *	
B-827 (2.5'-3')	4-2	1014	X					4
b-827 (2.0'-3.0')	4-2	1014	X					1
B-827 (7.5'-8.0')	4-2	1042	X					4
B-827 (7'-8')	4-2	1042	X					1
B-827 (12'-12.5')	4-2	1122	X					4
B-827 (12'-13')	4-2	1122	X					1
B-827 (12'-13') DUP	4-2	1122	X					5
B-827 (26'-26.5')	4-2	1210	X					4
B-827 (26.5'-27.5')	4-2	1210	X					1

Analyses by Method Name and Number

Method Name and Number	Comments (Field PID)	Lab ID #'s
PH 9045C		
IBC 02974-87		
Cyanide 9010		
Metals *		
PAH 8270SIMS		
BTEX 824013		
5035		

Laboratory Temperature upon Receipt  
2.8

Method Name and Number	Comments (Field PID)	Lab ID #'s
	*Metals-arsenic	001
	Chromium, lead	002
	Cyanide - total and amenable	003
		004
		005

Per D. Ingram combined any depths within the same 3 ft. AMM 4/3/08 4 labels samples to a carrier instead of 4.

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:** Requested TAT:  Rush  5 Days  ASTD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Derek Hoover Date 4-3-08 Time 1400

Signature Derek Hoover Date 4/3 Time 1730

**Received by:** Signature Derek Hoover Date 4/3 Time 1400

Signature Derek Hoover Date 4/3/08 Time 1730

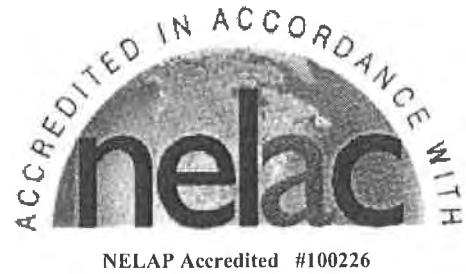
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 11, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08040238

Dear Derek Ingram:

TEKLAB, INC received 36 samples on 4/4/2008 5:30:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**SAMPLE SUMMARY****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08040238**Report Date:** 11-Apr-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040238-001	B-824 (1-3 ft)	5	4/4/2008 9:37:00 AM
08040238-002	B-824 (9-10 ft)	5	4/4/2008 10:16:00 AM
08040238-003	B-824 (23-24 ft)	5	4/4/2008 10:53:00 AM
08040238-004	B-821 (9-10 ft)	4	4/4/2008 11:45:00 AM
08040238-005	B-821 (0.5-3 ft)	4	4/4/2008 11:22:00 AM
08040238-006	B-821 (19-20 ft)	4	4/4/2008 12:42:00 PM
08040238-007	B-835 (28-29 ft)	5	4/3/2008 9:15:00 AM
08040238-008	B-825 (2-3 ft)	4	4/3/2008 10:43:00 AM
08040238-009	B-825 (8-9 ft)	4	4/3/2008 11:11:00 AM
08040238-010	B-825 (18-19 ft)	4	4/3/2008 11:33:00 AM
08040238-011	B-825 (25-26 ft)	1	4/3/2008 11:51:00 AM
08040238-012	B-826 (2-3 ft)	4	4/3/2008 1:11:00 PM
08040238-013	B-826 (8-9 ft)	4	4/3/2008 1:30:00 PM
08040238-014	B-826 (16-17 ft)	4	4/3/2008 1:52:00 PM
08040238-015	B-828 (2-3 ft)	4	4/3/2008 2:53:00 PM
08040238-016	B-828-DUP (2-3 ft)	4	4/3/2008 2:53:00 PM
08040238-017	B-828 (9-10 ft)	4	4/3/2008 3:19:00 PM
08040238-018	B-828 (12-13 ft)	4	4/3/2008 3:41:00 PM
08040238-019	B-828 (17-18 ft)	4	4/3/2008 4:00:00 PM
08040238-020	B-830 (2-3 ft)	4	4/3/2008 11:59:00 AM
08040238-021	B-830 (8-9 ft)	4	4/3/2008 12:21:00 PM
08040238-022	B-830 (28-30 ft)	5	4/3/2008 2:53:00 PM
08040238-023	B-831 (1-3 ft)	5	4/3/2008 3:49:00 PM
08040238-024	B-831 (9-10 ft)	5	4/3/2008 4:19:00 PM
08040238-025	B-831 (10.5-12 ft)	4	4/3/2008 4:55:00 PM
08040238-026	B-831 (18-20 ft)	4	4/3/2008 5:17:00 PM
08040238-027	B-832 (2-3 ft)	4	4/4/2008 8:53:00 AM
08040238-028	B-832 (7-8 ft)	4	4/4/2008 9:09:00 AM
08040238-029	B-832 (20-21 ft)	4	4/4/2008 9:40:00 AM
08040238-030	B-838 (1-2 ft)	4	4/4/2008 11:20:00 AM
08040238-031	B-838 (9-10 ft)	4	4/4/2008 11:31:00 AM
08040238-032	B-838 (15-16 ft)	4	4/4/2008 12:16:00 PM
08040238-033	B-838 (29-30 ft)	4	4/4/2008 12:52:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

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Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040238-034	B-820 (8.5-9.5 ft)	4	4/4/2008 1:41:00 PM
08040238-035	B-820 (1-2 ft)	4	4/4/2008 2:41:00 PM
08040238-036	B-820 (25-26 ft)	4	4/4/2008 2:53:00 PM

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08040238

**Report Date:** 11-Apr-08

**Cooler Receipt Temp:** 2.6 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-824 (1-3 ft)

Lab ID: 08040238-001

Collection Date: 4/4/2008 9:37:00 AM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.2	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.8	%	1	4/7/2008	HMH
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.36		6.31	mg/Kg-dry	1	4/9/2008 9:55:50 AM	LAL
Chromium	NELAP	0.94		18.6	mg/Kg-dry	1	4/9/2008 9:55:50 AM	LAL
Lead	NELAP	3.77		131	mg/Kg-dry	1	4/9/2008 9:55:50 AM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.042		ND	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Acenaphthylene	NELAP	0.042		0.115	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Anthracene	NELAP	0.042	J	0.041	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Benzo(a)anthracene	NELAP	0.042		0.208	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Benzo(a)pyrene	NELAP	0.042		0.199	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.042		0.193	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.042		0.141	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.042		0.204	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Chrysene	NELAP	0.042		0.218	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.042		0.049	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Fluoranthene	NELAP	0.042		0.314	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Fluorene	NELAP	0.042		ND	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.042		0.132	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Naphthalene	NELAP	0.042		ND	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Phenanthrene	NELAP	0.042		0.116	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Pyrene	NELAP	0.042		0.303	mg/Kg-dry	10	4/7/2008 5:52:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		59.9	%REC	10	4/7/2008 5:52:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		51.9	%REC	10	4/7/2008 5:52:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	10	4/7/2008 5:52:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	4/9/2008 6:10:00 PM	JSA
Ethylbenzene	NELAP	5.5		ND	µg/Kg-dry	1	4/9/2008 6:10:00 PM	JSA
Toluene	NELAP	5.5		ND	µg/Kg-dry	1	4/9/2008 6:10:00 PM	JSA
Xylenes, Total	NELAP	5.5	J	1.3	µg/Kg-dry	1	4/9/2008 6:10:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.9	%REC	1	4/9/2008 6:10:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		91.6	%REC	1	4/9/2008 6:10:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		95.7	%REC	1	4/9/2008 6:10:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.2	%REC	1	4/9/2008 6:10:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.61		< 0.61	mg/Kg-dry	1	4/8/2008	AET



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-001  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-824 (1-3 ft)  
**Collection Date:** 4/4/2008 9:37:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.61		< 0.61	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 3550B. 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-002

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-824 (9-10 ft)

Collection Date: 4/4/2008 10:16:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.3	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.7	%	1	4/7/2008	HMH
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		7.98	mg/Kg-dry	1	4/9/2008 10:02:37 AM	LAL
Chromium	NELAP	1.00		16.0	mg/Kg-dry	1	4/9/2008 10:02:37 AM	LAL
Lead	NELAP	4.00		11.4	mg/Kg-dry	1	4/9/2008 10:02:37 AM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.020		0.148	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Acenaphthylene	NELAP	0.020		0.515	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Anthracene	NELAP	0.020		0.639	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Benzo(a)anthracene	NELAP	0.020		0.585	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Benzo(a)pyrene	NELAP	0.020		0.673	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.020		0.301	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.020		0.308	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.020		0.375	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Chrysene	NELAP	0.020		0.550	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.020		0.076	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Fluoranthene	NELAP	0.020		1.01	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Fluorene	NELAP	0.020		0.666	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.020		0.240	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Naphthalene	NELAP	0.020		ND	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Phenanthrene	NELAP	0.020		2.38	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Pyrene	NELAP	0.020		1.51	mg/Kg-dry	5	4/7/2008 6:18:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		47.9	%REC	5	4/7/2008 6:18:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		45.9	%REC	5	4/7/2008 6:18:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		72.9	%REC	5	4/7/2008 6:18:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	23.5		ND	µg/Kg-dry	12.5	4/9/2008 5:09:00 PM	JSA
Ethylbenzene	NELAP	118	J	34	µg/Kg-dry	12.5	4/9/2008 5:09:00 PM	JSA
Toluene	NELAP	118		ND	µg/Kg-dry	12.5	4/9/2008 5:09:00 PM	JSA
Xylenes, Total	NELAP	118		ND	µg/Kg-dry	12.5	4/9/2008 5:09:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	138.3	%REC	12.5	4/9/2008 5:09:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		115.4	%REC	12.5	4/9/2008 5:09:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130	S	181.6	%REC	12.5	4/9/2008 5:09:00 PM	JSA
Surr: Toluene-d8		80.1-122		110.6	%REC	12.5	4/9/2008 5:09:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.56		< 0.56	mg/Kg-dry	1	4/8/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-002  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-824 (9-10 ft)  
**Collection Date:** 4/4/2008 10:16:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.57		< 0.57	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental  
WorkOrder: 08040238  
Lab ID: 08040238-003  
Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ  
Client Sample ID: B-824 (23-24 ft)  
Collection Date: 4/4/2008 10:53:00 AM  
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.8	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.2	%	1	4/7/2008	HMH
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.45		8.18	mg/Kg-dry	1	4/9/2008 10:09:24 AM	LAL
Chromium	NELAP	0.98		15.5	mg/Kg-dry	1	4/9/2008 10:09:24 AM	LAL
Lead	NELAP	3.92		10.5	mg/Kg-dry	1	4/9/2008 10:09:24 AM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.015	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.041	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Anthracene	NELAP	0.004		0.090	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.081	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.061	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.048	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.025	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.053	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Chrysene	NELAP	0.004		0.069	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.011	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Fluoranthene	NELAP	0.004		0.192	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Fluorene	NELAP	0.004		0.077	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.026	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Naphthalene	NELAP	0.004		0.187	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Phenanthrene	NELAP	0.004		0.288	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Pyrene	NELAP	0.004		0.142	mg/Kg-dry	1	4/7/2008 4:31:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		56.5	%REC	1	4/7/2008 4:31:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		59.7	%REC	1	4/7/2008 4:31:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		77.0	%REC	1	4/7/2008 4:31:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		1.3	µg/Kg-dry	1	4/9/2008 6:40:00 PM	JSA
Ethylbenzene	NELAP	4.1		ND	µg/Kg-dry	1	4/9/2008 6:40:00 PM	JSA
Toluene	NELAP	4.1	J	1.7	µg/Kg-dry	1	4/9/2008 6:40:00 PM	JSA
Xylenes, Total	NELAP	4.1	J	1.3	µg/Kg-dry	1	4/9/2008 6:40:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		90.5	%REC	1	4/9/2008 6:40:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		88.7	%REC	1	4/9/2008 6:40:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		89.4	%REC	1	4/9/2008 6:40:00 PM	JSA
Surr: Toluene-d8		80.1-122		96.3	%REC	1	4/9/2008 6:40:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.55		< 0.55	mg/Kg-dry	1	4/8/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-003  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-824 (23-24 ft)  
**Collection Date:** 4/4/2008 10:53:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.55		< 0.55	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-004

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-821 (9-10 ft)

Collection Date: 4/4/2008 11:45:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		16.4	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		83.6	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Naphthalene	NELAP	0.004		0.006	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Phenanthrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Pyrene	NELAP	0.004		0.008	mg/Kg-dry	1	4/7/2008 8:29:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		56.5	%REC	1	4/7/2008 8:29:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		56.3	%REC	1	4/7/2008 8:29:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		76.6	%REC	1	4/7/2008 8:29:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		5.2	µg/Kg-dry	1	4/9/2008 7:11:00 PM	JSA
Ethylbenzene	NELAP	4.9	J	3.3	µg/Kg-dry	1	4/9/2008 7:11:00 PM	JSA
Toluene	NELAP	4.9		8.9	µg/Kg-dry	1	4/9/2008 7:11:00 PM	JSA
Xylenes, Total	NELAP	4.9		7.3	µg/Kg-dry	1	4/9/2008 7:11:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.1	%REC	1	4/9/2008 7:11:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		93.9	%REC	1	4/9/2008 7:11:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		98.8	%REC	1	4/9/2008 7:11:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.4	%REC	1	4/9/2008 7:11:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-821 (0.5-3 ft)

Lab ID: 08040238-005

Collection Date: 4/4/2008 11:22:00 AM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		17.5	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.5	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.042		ND	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Acenaphthylene	NELAP	0.042		0.140	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Anthracene	NELAP	0.042		0.198	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Benzo(a)anthracene	NELAP	0.042		0.220	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Benzo(a)pyrene	NELAP	0.042		0.229	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.042		0.106	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.042		0.098	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.042		0.130	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Chrysene	NELAP	0.042		0.197	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.042		ND	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Fluoranthene	NELAP	0.042		0.362	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Fluorene	NELAP	0.042		0.120	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.042		0.077	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Naphthalene	NELAP	0.042		2.22	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Phenanthrene	NELAP	0.042		0.588	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Pyrene	NELAP	0.042		0.535	mg/Kg-dry	10	4/7/2008 6:45:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	10	4/7/2008 6:45:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		33.9	%REC	10	4/7/2008 6:45:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.9	%REC	10	4/7/2008 6:45:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.7	µg/Kg-dry	1	4/9/2008 7:41:00 PM	JSA
Ethylbenzene	NELAP	4.6		ND	µg/Kg-dry	1	4/9/2008 7:41:00 PM	JSA
Toluene	NELAP	4.6	J	2.1	µg/Kg-dry	1	4/9/2008 7:41:00 PM	JSA
Xylenes, Total	NELAP	4.6		ND	µg/Kg-dry	1	4/9/2008 7:41:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		75.9	%REC	1	4/9/2008 7:41:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		109.0	%REC	1	4/9/2008 7:41:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		78.0	%REC	1	4/9/2008 7:41:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.2	%REC	1	4/9/2008 7:41:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-006  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-821 (19-20 ft)  
**Collection Date:** 4/4/2008 12:42:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.6	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.4	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Naphthalene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 9:04:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		25.5	%REC	1	4/7/2008 9:04:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		34.9	%REC	1	4/7/2008 9:04:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	1	4/7/2008 9:04:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.7	µg/Kg-dry	1	4/9/2008 8:12:00 PM	JSA
Ethylbenzene	NELAP	4.5		ND	µg/Kg-dry	1	4/9/2008 8:12:00 PM	JSA
Toluene	NELAP	4.5	J	2.0	µg/Kg-dry	1	4/9/2008 8:12:00 PM	JSA
Xylenes, Total	NELAP	4.5	J	1.6	µg/Kg-dry	1	4/9/2008 8:12:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		104.3	%REC	1	4/9/2008 8:12:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		78.9	%REC	1	4/9/2008 8:12:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		105.7	%REC	1	4/9/2008 8:12:00 PM	JSA
Surr: Toluene-d8		80.1-122		82.2	%REC	1	4/9/2008 8:12:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-007

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-835 (28-29 ft)

Collection Date: 4/3/2008 9:15:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.8	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.2	%	1	4/7/2008	HMH
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		7.78	mg/Kg-dry	1	4/9/2008 10:29:36 AM	LAL
Chromium	NELAP	0.96		12.7	mg/Kg-dry	1	4/9/2008 10:29:36 AM	LAL
Lead	NELAP	3.85		9.62	mg/Kg-dry	1	4/9/2008 10:29:36 AM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.195		2.47	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Acenaphthylene	NELAP	0.195		13.0	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Anthracene	NELAP	0.195		8.24	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Benzo(a)anthracene	NELAP	0.195		6.06	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Benzo(a)pyrene	NELAP	0.195		4.99	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.195		3.41	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.195		1.94	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.195		3.92	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Chrysene	NELAP	0.195		5.22	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.195		0.702	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Fluoranthene	NELAP	0.195		15.3	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Fluorene	NELAP	0.195		9.55	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.195		2.09	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Naphthalene	NELAP	0.195		56.0	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Phenanthrene	NELAP	0.195		25.2	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Pyrene	NELAP	0.195		12.2	mg/Kg-dry	50	4/7/2008 7:12:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	50	4/7/2008 7:12:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		20.0	%REC	50	4/7/2008 7:12:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	50	4/7/2008 7:12:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	885		29600	µg/Kg-dry	500	4/9/2008 4:39:00 PM	JSA
Ethylbenzene	NELAP	4430		15200	µg/Kg-dry	500	4/9/2008 4:39:00 PM	JSA
Toluene	NELAP	4430		59100	µg/Kg-dry	500	4/9/2008 4:39:00 PM	JSA
Xylenes, Total	NELAP	4430		78100	µg/Kg-dry	500	4/9/2008 4:39:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		87.1	%REC	500	4/9/2008 4:39:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.5	%REC	500	4/9/2008 4:39:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		90.5	%REC	500	4/9/2008 4:39:00 PM	JSA
Surr: Toluene-d8		80-122		97.9	%REC	500	4/9/2008 4:39:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.55		0.59	mg/Kg-dry	1	4/8/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-007  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-835 (28-29 ft)  
**Collection Date:** 4/3/2008 9:15:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.55		Interference	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS  
Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-008  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-825 (2-3 ft)  
**Collection Date:** 4/3/2008 10:43:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		23.7	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		76.3	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.010	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.040	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Anthracene	NELAP	0.004		0.038	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.029	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.018	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.014	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.006	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.015	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Chrysene	NELAP	0.004		0.025	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Fluoranthene	NELAP	0.004		0.066	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Fluorene	NELAP	0.004		0.048	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.007	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Naphthalene	NELAP	0.004		0.109	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Phenanthrene	NELAP	0.004		0.116	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Pyrene	NELAP	0.004		0.053	mg/Kg-dry	1	4/7/2008 4:58:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		29.9	%REC	1	4/7/2008 4:58:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		47.7	%REC	1	4/7/2008 4:58:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	1	4/7/2008 4:58:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		ND	µg/Kg-dry	1	4/9/2008 8:42:00 PM	JSA
Ethylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	4/9/2008 8:42:00 PM	JSA
Toluene	NELAP	5.9		ND	µg/Kg-dry	1	4/9/2008 8:42:00 PM	JSA
Xylenes, Total	NELAP	5.9	J	1.9	µg/Kg-dry	1	4/9/2008 8:42:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		103.0	%REC	1	4/9/2008 8:42:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.3	%REC	1	4/9/2008 8:42:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		96.1	%REC	1	4/9/2008 8:42:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.1	%REC	1	4/9/2008 8:42:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-825 (8-9 ft)

Lab ID: 08040238-009

Collection Date: 4/3/2008 11:11:00 AM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		14.3	%	1	4/8/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		85.7	%	1	4/8/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Naphthalene	NELAP	0.004		0.008	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Phenanthrene	NELAP	0.004		0.007	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:10:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		38.5	%REC	1	4/8/2008 9:10:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		46.1	%REC	1	4/8/2008 9:10:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.7	%REC	1	4/8/2008 9:10:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.3	µg/Kg-dry	1	4/9/2008 9:13:00 PM	JSA
Ethylbenzene	NELAP	4.6	J	2.1	µg/Kg-dry	1	4/9/2008 9:13:00 PM	JSA
Toluene	NELAP	4.6		6.2	µg/Kg-dry	1	4/9/2008 9:13:00 PM	JSA
Xylenes, Total	NELAP	4.6		4.8	µg/Kg-dry	1	4/9/2008 9:13:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		68.3	%REC	1	4/9/2008 9:13:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		111.5	%REC	1	4/9/2008 9:13:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		73.8	%REC	1	4/9/2008 9:13:00 PM	JSA
Surr: Toluene-d8		80.1-122		102.4	%REC	1	4/9/2008 9:13:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-825 (18-19 ft)

Lab ID: 08040238-010

Collection Date: 4/3/2008 11:33:00 AM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.1	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.9	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:27:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		63.3	%REC	1	4/8/2008 11:27:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		59.1	%REC	1	4/8/2008 11:27:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		68.3	%REC	1	4/8/2008 11:27:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.6	µg/Kg-dry	1	4/9/2008 9:43:00 PM	JSA
Ethylbenzene	NELAP	4.6		ND	µg/Kg-dry	1	4/9/2008 9:43:00 PM	JSA
Toluene	NELAP	4.6	J	2.4	µg/Kg-dry	1	4/9/2008 9:43:00 PM	JSA
Xylenes, Total	NELAP	4.6		ND	µg/Kg-dry	1	4/9/2008 9:43:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		79.4	%REC	1	4/9/2008 9:43:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		105.8	%REC	1	4/9/2008 9:43:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		83.6	%REC	1	4/9/2008 9:43:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.4	%REC	1	4/9/2008 9:43:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-011

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-825 (25-26 ft)

Collection Date: 4/3/2008 11:51:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>ASTM D2974</u></b>								
Percent Moisture		0.1		11.0	%	1	4/7/2008	HMH
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		89.0	%	1	4/7/2008	HMH
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.27		7.68	mg/Kg-dry	1	4/9/2008 10:36:23 AM	LAL
Chromium	NELAP	0.91		15.8	mg/Kg-dry	1	4/9/2008 10:36:23 AM	LAL
Lead	NELAP	3.64		10.1	mg/Kg-dry	1	4/9/2008 10:36:23 AM	LAL
<b><u>SW-846 9010B, 9014</u></b>								
Cyanide	NELAP	0.55		< 0.55	mg/Kg-dry	1	4/8/2008	AET
<b><u>SW-846 9014A</u></b>								
Cyanide, Amenable to Chlorination		0.55		< 0.55	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-012

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-826 (2-3 ft)

Collection Date: 4/3/2008 1:11:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.8	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.2	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:20:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		66.9	%REC	1	4/8/2008 1:20:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		63.9	%REC	1	4/8/2008 1:20:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		73.1	%REC	1	4/8/2008 1:20:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	4/9/2008 10:13:00 PM	JSA
Ethylbenzene	NELAP	5.6		ND	µg/Kg-dry	1	4/9/2008 10:13:00 PM	JSA
Toluene	NELAP	5.6		ND	µg/Kg-dry	1	4/9/2008 10:13:00 PM	JSA
Xylenes, Total	NELAP	5.6		ND	µg/Kg-dry	1	4/9/2008 10:13:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		101.7	%REC	1	4/9/2008 10:13:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.1	%REC	1	4/9/2008 10:13:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.5	%REC	1	4/9/2008 10:13:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.9	%REC	1	4/9/2008 10:13:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-013

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-826 (8-9 ft)

Collection Date: 4/3/2008 1:30:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		15.8	%	1	4/8/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		84.2	%	1	4/8/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.004	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Phenanthrene	NELAP	0.004		0.006	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	4/8/2008 1:59:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		44.1	%REC	1	4/8/2008 1:59:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		46.9	%REC	1	4/8/2008 1:59:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.1	%REC	1	4/8/2008 1:59:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.0	µg/Kg-dry	1	4/9/2008 10:44:00 PM	JSA
Ethylbenzene	NELAP	4.3	J	1.7	µg/Kg-dry	1	4/9/2008 10:44:00 PM	JSA
Toluene	NELAP	4.3	J	4.2	µg/Kg-dry	1	4/9/2008 10:44:00 PM	JSA
Xylenes, Total	NELAP	4.3	J	4.2	µg/Kg-dry	1	4/9/2008 10:44:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		98.1	%REC	1	4/9/2008 10:44:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.8	%REC	1	4/9/2008 10:44:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		94.4	%REC	1	4/9/2008 10:44:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.1	%REC	1	4/9/2008 10:44:00 PM	JSA
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		8.07		1	4/10/2008 2:20:00 PM	NJK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-826 (16-17 ft)

Lab ID: 08040238-014

Collection Date: 4/3/2008 1:52:00 PM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.9	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.1	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.004	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Naphthalene	NELAP	0.004		0.006	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Phenanthrene	NELAP	0.004		0.012	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Pyrene	NELAP	0.004		0.007	mg/Kg-dry	1	4/8/2008 2:37:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		61.9	%REC	1	4/8/2008 2:37:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		61.9	%REC	1	4/8/2008 2:37:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		74.1	%REC	1	4/8/2008 2:37:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.8	µg/Kg-dry	1	4/9/2008 11:14:00 PM	JSA
Ethylbenzene	NELAP	4.4	J	1.5	µg/Kg-dry	1	4/9/2008 11:14:00 PM	JSA
Toluene	NELAP	4.4	J	4.0	µg/Kg-dry	1	4/9/2008 11:14:00 PM	JSA
Xylenes, Total	NELAP	4.4	J	3.5	µg/Kg-dry	1	4/9/2008 11:14:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.2	%REC	1	4/9/2008 11:14:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.9	%REC	1	4/9/2008 11:14:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		98.9	%REC	1	4/9/2008 11:14:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.3	%REC	1	4/9/2008 11:14:00 PM	JSA
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		8.21		1	4/10/2008 2:23:00 PM	NJK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-015  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-828 (2-3 ft)  
**Collection Date:** 4/3/2008 2:53:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		23.4	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		76.6	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.014	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.017	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.009	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Chrysene	NELAP	0.004		0.012	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Fluoranthene	NELAP	0.004		0.028	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.008	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Phenanthrene	NELAP	0.004		0.010	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Pyrene	NELAP	0.004		0.023	mg/Kg-dry	1	4/8/2008 3:14:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		54.1	%REC	1	4/8/2008 3:14:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		54.1	%REC	1	4/8/2008 3:14:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.1	%REC	1	4/8/2008 3:14:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.3		1.4	µg/Kg-dry	1	4/9/2008 11:45:00 PM	JSA
Ethylbenzene	NELAP	6.3		ND	µg/Kg-dry	1	4/9/2008 11:45:00 PM	JSA
Toluene	NELAP	6.3		ND	µg/Kg-dry	1	4/9/2008 11:45:00 PM	JSA
Xylenes, Total	NELAP	6.3	J	1.8	µg/Kg-dry	1	4/9/2008 11:45:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.3	%REC	1	4/9/2008 11:45:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		78.2	%REC	1	4/9/2008 11:45:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.8	%REC	1	4/9/2008 11:45:00 PM	JSA
Surr: Toluene-d8		80.1-122		95.4	%REC	1	4/9/2008 11:45:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-016  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-828-DUP (2-3 ft)  
**Collection Date:** 4/3/2008 2:53:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		23.4	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		76.6	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.012	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.012	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.018	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.010	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Chrysene	NELAP	0.004		0.012	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Fluoranthene	NELAP	0.004		0.017	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.009	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Naphthalene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Phenanthrene	NELAP	0.004		0.008	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Pyrene	NELAP	0.004		0.015	mg/Kg-dry	1	4/8/2008 3:53:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		61.5	%REC	1	4/8/2008 3:53:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		60.5	%REC	1	4/8/2008 3:53:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	1	4/8/2008 3:53:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.3		2.1	µg/Kg-dry	1	4/10/2008 5:49:00 AM	JSA
Ethylbenzene	NELAP	6.5		ND	µg/Kg-dry	1	4/10/2008 5:49:00 AM	JSA
Toluene	NELAP	6.5		ND	µg/Kg-dry	1	4/10/2008 5:49:00 AM	JSA
Xylenes, Total	NELAP	6.5	J	1.6	µg/Kg-dry	1	4/10/2008 5:49:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.5	%REC	1	4/10/2008 5:49:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.6	%REC	1	4/10/2008 5:49:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		96.6	%REC	1	4/10/2008 5:49:00 AM	JSA
Surr: Toluene-d8		80.1-122		99.4	%REC	1	4/10/2008 5:49:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-828 (9-10 ft)

Lab ID: 08040238-017

Collection Date: 4/3/2008 3:19:00 PM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.8	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.2	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Naphthalene	NELAP	0.004		0.023	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:31:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		58.9	%REC	1	4/8/2008 4:31:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		55.5	%REC	1	4/8/2008 4:31:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.7	%REC	1	4/8/2008 4:31:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		31.4	µg/Kg-dry	1	4/10/2008 12:15:00 AM	JSA
Ethylbenzene	NELAP	5.2		53.4	µg/Kg-dry	1	4/10/2008 12:15:00 AM	JSA
Toluene	NELAP	5.2		10.9	µg/Kg-dry	1	4/10/2008 12:15:00 AM	JSA
Xylenes, Total	NELAP	5.2		32.2	µg/Kg-dry	1	4/10/2008 12:15:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		93.7	%REC	1	4/10/2008 12:15:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		103.9	%REC	1	4/10/2008 12:15:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		94.3	%REC	1	4/10/2008 12:15:00 AM	JSA
Surr: Toluene-d8		80.1-122		100.4	%REC	1	4/10/2008 12:15:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-018

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-828 (12-13 ft)

Collection Date: 4/3/2008 3:41:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.5	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.5	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.043	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.006	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Fluorene	NELAP	0.004		0.021	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Naphthalene	NELAP	0.004		0.766	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:08:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		48.9	%REC	1	4/8/2008 5:08:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		46.9	%REC	1	4/8/2008 5:08:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.5	%REC	1	4/8/2008 5:08:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	21.7		60.8	µg/Kg-dry	12.5	4/9/2008 5:40:00 PM	JSA
Ethylbenzene	NELAP	109		182	µg/Kg-dry	12.5	4/9/2008 5:40:00 PM	JSA
Toluene	NELAP	109		ND	µg/Kg-dry	12.5	4/9/2008 5:40:00 PM	JSA
Xylenes, Total	NELAP	109		284	µg/Kg-dry	12.5	4/9/2008 5:40:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	129.3	%REC	12.5	4/9/2008 5:40:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		110.9	%REC	12.5	4/9/2008 5:40:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130	S	183.6	%REC	12.5	4/9/2008 5:40:00 PM	JSA
Surr: Toluene-d8		80.1-122		107.3	%REC	12.5	4/9/2008 5:40:00 PM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-019

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-828 (17-18 ft)

Collection Date: 4/3/2008 4:00:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.6	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.4	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Phenanthrene	NELAP	0.004		0.004	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 5:46:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		37.7	%REC	1	4/8/2008 5:46:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		44.9	%REC	1	4/8/2008 5:46:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		61.3	%REC	1	4/8/2008 5:46:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.5	µg/Kg-dry	1	4/10/2008 6:19:00 AM	JSA
Ethylbenzene	NELAP	4.3		ND	µg/Kg-dry	1	4/10/2008 6:19:00 AM	JSA
Toluene	NELAP	4.3	J	1.5	µg/Kg-dry	1	4/10/2008 6:19:00 AM	JSA
Xylenes, Total	NELAP	4.3		ND	µg/Kg-dry	1	4/10/2008 6:19:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		90.7	%REC	1	4/10/2008 6:19:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		82.9	%REC	1	4/10/2008 6:19:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		91.7	%REC	1	4/10/2008 6:19:00 AM	JSA
Surr: Toluene-d8		80.1-122		92.6	%REC	1	4/10/2008 6:19:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-020  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-830 (2-3 ft)  
**Collection Date:** 4/3/2008 11:59:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		25.7	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		74.3	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.023		0.032	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Acenaphthylene	NELAP	0.023		0.075	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Anthracene	NELAP	0.023		0.086	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Benzo(a)anthracene	NELAP	0.023		0.429	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Benzo(a)pyrene	NELAP	0.023		0.500	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.023		0.660	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.023		0.342	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.023		0.251	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Chrysene	NELAP	0.023		0.487	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.023		0.105	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Fluoranthene	NELAP	0.023		0.771	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Fluorene	NELAP	0.023		0.028	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.023		0.316	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Naphthalene	NELAP	0.023		0.037	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Phenanthrene	NELAP	0.023		0.338	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Pyrene	NELAP	0.023		0.638	mg/Kg-dry	5	4/8/2008 12:09:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		54.9	%REC	5	4/8/2008 12:09:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		65.9	%REC	5	4/8/2008 12:09:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		75.8	%REC	5	4/8/2008 12:09:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.3		ND	µg/Kg-dry	1	4/10/2008 6:50:00 AM	JSA
Ethylbenzene	NELAP	6.4		ND	µg/Kg-dry	1	4/10/2008 6:50:00 AM	JSA
Toluene	NELAP	6.4		ND	µg/Kg-dry	1	4/10/2008 6:50:00 AM	JSA
Xylenes, Total	NELAP	6.4		ND	µg/Kg-dry	1	4/10/2008 6:50:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		100.5	%REC	1	4/10/2008 6:50:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.8	%REC	1	4/10/2008 6:50:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		98.5	%REC	1	4/10/2008 6:50:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.8	%REC	1	4/10/2008 6:50:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-021  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-830 (8-9 ft)  
**Collection Date:** 4/3/2008 12:21:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		18.7	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.3	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:24:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.9	%REC	1	4/8/2008 6:24:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		51.9	%REC	1	4/8/2008 6:24:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.1	%REC	1	4/8/2008 6:24:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		1.5	µg/Kg-dry	1	4/10/2008 7:21:00 AM	JSA
Ethylbenzene	NELAP	5.8		ND	µg/Kg-dry	1	4/10/2008 7:21:00 AM	JSA
Toluene	NELAP	5.8	J	2.1	µg/Kg-dry	1	4/10/2008 7:21:00 AM	JSA
Xylenes, Total	NELAP	5.8	J	1.4	µg/Kg-dry	1	4/10/2008 7:21:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		98.5	%REC	1	4/10/2008 7:21:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.8	%REC	1	4/10/2008 7:21:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		96.3	%REC	1	4/10/2008 7:21:00 AM	JSA
Surr: Toluene-d8		80.1-122		98.9	%REC	1	4/10/2008 7:21:00 AM	JSA

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-022

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-830 (28-30 ft)

Collection Date: 4/3/2008 2:53:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.1	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.9	%	1	4/7/2008	HMH
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		8.52	mg/Kg-dry	1	4/9/2008 11:15:18 AM	LAL
Chromium	NELAP	1.00		12.4	mg/Kg-dry	1	4/9/2008 11:15:18 AM	LAL
Lead	NELAP	4.00		9.39	mg/Kg-dry	1	4/9/2008 11:15:18 AM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 7:03:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		54.7	%REC	1	4/8/2008 7:03:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		53.5	%REC	1	4/8/2008 7:03:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.1	%REC	1	4/8/2008 7:03:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	4/10/2008 7:51:00 AM	JSA
Ethylbenzene	NELAP	4.1		ND	µg/Kg-dry	1	4/10/2008 7:51:00 AM	JSA
Toluene	NELAP	4.1	J	0.9	µg/Kg-dry	1	4/10/2008 7:51:00 AM	JSA
Xylenes, Total	NELAP	4.1		ND	µg/Kg-dry	1	4/10/2008 7:51:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		66.5	%REC	1	4/10/2008 7:51:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.8	%REC	1	4/10/2008 7:51:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130	S	65.4	%REC	1	4/10/2008 7:51:00 AM	JSA
Surr: Toluene-d8		80.1-122		96.3	%REC	1	4/10/2008 7:51:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.55	J	0.43	mg/Kg-dry	1	4/8/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040238

**Lab ID:** 08040238-022

**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-830 (28-30 ft)

**Collection Date:** 4/3/2008 2:53:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.55		< 0.55	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-831 (1-3 ft)

Lab ID: 08040238-023

Collection Date: 4/3/2008 3:49:00 PM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.6	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.4	%	1	4/7/2008	HMH
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		6.50	mg/Kg-dry	1	4/9/2008 11:22:05 AM	LAL
Chromium	NELAP	0.96		12.2	mg/Kg-dry	1	4/9/2008 11:22:05 AM	LAL
Lead	NELAP	3.85		87.4	mg/Kg-dry	1	4/9/2008 11:22:05 AM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.215		0.285	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Acenaphthylene	NELAP	0.215		4.24	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Anthracene	NELAP	0.215		4.99	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Benzo(a)anthracene	NELAP	0.215		10.7	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Benzo(a)pyrene	NELAP	0.215		8.77	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.215		11.8	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.215		4.05	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.215		4.51	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Chrysene	NELAP	0.215		11.2	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.215		1.55	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Fluoranthene	NELAP	0.215		25.8	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Fluorene	NELAP	0.215		1.33	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.215		4.54	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Naphthalene	NELAP	0.215		0.466	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Phenanthrene	NELAP	0.215		18.7	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Pyrene	NELAP	0.215		19.2	mg/Kg-dry	50	4/8/2008 12:44:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	50	4/8/2008 12:44:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	50	4/8/2008 12:44:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		79.8	%REC	50	4/8/2008 12:44:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.3		2.1	µg/Kg-dry	1	4/10/2008 8:21:00 AM	JSA
Ethylbenzene	NELAP	6.7		ND	µg/Kg-dry	1	4/10/2008 8:21:00 AM	JSA
Toluene	NELAP	6.7		ND	µg/Kg-dry	1	4/10/2008 8:21:00 AM	JSA
Xylenes, Total	NELAP	6.7		ND	µg/Kg-dry	1	4/10/2008 8:21:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.7	%REC	1	4/10/2008 8:21:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		95.9	%REC	1	4/10/2008 8:21:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		96.0	%REC	1	4/10/2008 8:21:00 AM	JSA
Surr: Toluene-d8		80.1-122		98.1	%REC	1	4/10/2008 8:21:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.61		0.72	mg/Kg-dry	1	4/8/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040238

**Lab ID:** 08040238-023

**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-831 (1-3 ft)

**Collection Date:** 4/3/2008 3:49:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.63		<b>Interference</b>	mg/Kg-dry	1	4/8/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040238

**Lab ID:** 08040238-024

**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-831 (9-10 ft)

**Collection Date:** 4/3/2008 4:19:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>ASTM D2974</u></b>								
Percent Moisture		0.1		14.0	%	1	4/7/2008	HMH
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		86.0	%	1	4/7/2008	HMH
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		8.22	mg/Kg-dry	1	4/9/2008 11:28:37 AM	LAL
Chromium	NELAP	0.94		10.6	mg/Kg-dry	1	4/9/2008 11:28:37 AM	LAL
Lead	NELAP	3.77		11.0	mg/Kg-dry	1	4/9/2008 11:28:37 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.387		53.4	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Acenaphthylene	NELAP	0.387		11.0	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Anthracene	NELAP	0.387		33.2	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Benzo(a)anthracene	NELAP	0.387		22.3	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Benzo(a)pyrene	NELAP	0.387		17.1	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.387		18.0	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.387		6.17	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.387		6.95	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Chrysene	NELAP	0.387		20.5	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.387		2.28	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Fluoranthene	NELAP	0.387		54.4	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Fluorene	NELAP	0.387		45.3	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.387		6.30	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Naphthalene	NELAP	0.773		274	mg/Kg-dry	100	4/9/2008 5:58:00 AM	TDN
Phenanthrene	NELAP	0.387		103	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Pyrene	NELAP	0.387		48.9	mg/Kg-dry	50	4/8/2008 1:20:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		69.9	%REC	50	4/8/2008 1:20:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	50	4/8/2008 1:20:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		89.8	%REC	50	4/8/2008 1:20:00 PM	TDN
<b><u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	849		8450	µg/Kg-dry	500	4/10/2008 4:17:00 AM	JSA
Ethylbenzene	NELAP	4250		32600	µg/Kg-dry	500	4/10/2008 4:17:00 AM	JSA
Toluene	NELAP	4250		18800	µg/Kg-dry	500	4/10/2008 4:17:00 AM	JSA
Xylenes, Total	NELAP	4250		105000	µg/Kg-dry	500	4/10/2008 4:17:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		93.1	%REC	500	4/10/2008 4:17:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		101.7	%REC	500	4/10/2008 4:17:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		97.3	%REC	500	4/10/2008 4:17:00 AM	JSA
Surr: Toluene-d8		80.1-122		98.2	%REC	500	4/10/2008 4:17:00 AM	JSA
<b><u>SW-846 9010B, 9014</u></b>								
Cyanide	NELAP	0.56		0.65	mg/Kg-dry	1	4/8/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-024

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-831 (9-10 ft)

Collection Date: 4/3/2008 4:19:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.57		Interference	mg/Kg-dry	1	4/8/2008	AET

Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-025

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-831 (10.5-12 ft)

Collection Date: 4/3/2008 4:55:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		15.2	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		84.8	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.388		29.7	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Acenaphthylene	NELAP	0.388		10.0	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Anthracene	NELAP	0.388		20.0	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Benzo(a)anthracene	NELAP	0.388		12.3	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Benzo(a)pyrene	NELAP	0.388		9.94	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.388		10.2	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.388		3.61	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.388		4.14	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Chrysene	NELAP	0.388		11.1	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.388		1.58	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Fluoranthene	NELAP	0.388		33.5	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Fluorene	NELAP	0.388		27.7	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.388		3.64	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Naphthalene	NELAP	0.388		166	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Phenanthrene	NELAP	0.388		62.7	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Pyrene	NELAP	0.388		29.2	mg/Kg-dry	50	4/8/2008 1:56:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		69.9	%REC	50	4/8/2008 1:56:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	50	4/8/2008 1:56:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		79.8	%REC	50	4/8/2008 1:56:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	898		6870	µg/Kg-dry	500	4/10/2008 4:48:00 AM	JSA
Ethylbenzene	NELAP	4490		17600	µg/Kg-dry	500	4/10/2008 4:48:00 AM	JSA
Toluene	NELAP	4490		10600	µg/Kg-dry	500	4/10/2008 4:48:00 AM	JSA
Xylenes, Total	NELAP	4490		54200	µg/Kg-dry	500	4/10/2008 4:48:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		91.0	%REC	500	4/10/2008 4:48:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		101.6	%REC	500	4/10/2008 4:48:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		93.5	%REC	500	4/10/2008 4:48:00 AM	JSA
Surr: Toluene-d8		80.1-122		99.0	%REC	500	4/10/2008 4:48:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-026

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-831 (18-20 ft)

Collection Date: 4/3/2008 5:17:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.8	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.2	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.006	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.004	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Chrysene	NELAP	0.004		0.005	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Fluorene	NELAP	0.004		0.006	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Naphthalene	NELAP	0.004		0.064	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Phenanthrene	NELAP	0.004		0.022	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Pyrene	NELAP	0.004		0.012	mg/Kg-dry	1	4/9/2008 2:14:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		41.5	%REC	1	4/9/2008 2:14:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		49.9	%REC	1	4/9/2008 2:14:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.5	%REC	1	4/9/2008 2:14:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.1	µg/Kg-dry	1	4/10/2008 8:51:00 AM	JSA
Ethylbenzene	NELAP	4.4	J	1.3	µg/Kg-dry	1	4/10/2008 8:51:00 AM	JSA
Toluene	NELAP	4.4	J	2.5	µg/Kg-dry	1	4/10/2008 8:51:00 AM	JSA
Xylenes, Total	NELAP	4.4	J	4.1	µg/Kg-dry	1	4/10/2008 8:51:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		86.4	%REC	1	4/10/2008 8:51:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.3	%REC	1	4/10/2008 8:51:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		89.2	%REC	1	4/10/2008 8:51:00 AM	JSA
Surr: Toluene-d8		80.1-122		99.5	%REC	1	4/10/2008 8:51:00 AM	JSA

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-027

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-832 (2-3 ft)

Collection Date: 4/4/2008 8:53:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		27.4	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		72.6	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.024		0.076	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Acenaphthylene	NELAP	0.024		0.332	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Anthracene	NELAP	0.024		0.718	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Benzo(a)anthracene	NELAP	0.024		1.29	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Benzo(a)pyrene	NELAP	0.024		1.26	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.024		1.59	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.024		0.637	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.024		0.585	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Chrysene	NELAP	0.024		1.19	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.024		0.230	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Fluoranthene	NELAP	0.024		2.44	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Fluorene	NELAP	0.024		0.338	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.024		0.629	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Naphthalene	NELAP	0.024		1.12	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Phenanthrene	NELAP	0.024		1.90	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Pyrene	NELAP	0.024		1.95	mg/Kg-dry	5	4/8/2008 2:33:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		51.9	%REC	5	4/8/2008 2:33:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		61.9	%REC	5	4/8/2008 2:33:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	5	4/8/2008 2:33:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.4		6.2	µg/Kg-dry	1	4/10/2008 9:21:00 AM	JSA
Ethylbenzene	NELAP	6.9		ND	µg/Kg-dry	1	4/10/2008 9:21:00 AM	JSA
Toluene	NELAP	6.9	J	1.5	µg/Kg-dry	1	4/10/2008 9:21:00 AM	JSA
Xylenes, Total	NELAP	6.9		ND	µg/Kg-dry	1	4/10/2008 9:21:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		101.5	%REC	1	4/10/2008 9:21:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		92.1	%REC	1	4/10/2008 9:21:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		98.3	%REC	1	4/10/2008 9:21:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.2	%REC	1	4/10/2008 9:21:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-028

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-832 (7-8 ft)

Collection Date: 4/4/2008 9:09:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.8	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.2	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:59:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		35.7	%REC	1	4/9/2008 12:59:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		48.5	%REC	1	4/9/2008 12:59:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.1	%REC	1	4/9/2008 12:59:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	4/10/2008 9:51:00 AM	JSA
Ethylbenzene	NELAP	5.6		ND	µg/Kg-dry	1	4/10/2008 9:51:00 AM	JSA
Toluene	NELAP	5.6		ND	µg/Kg-dry	1	4/10/2008 9:51:00 AM	JSA
Xylenes, Total	NELAP	5.6		ND	µg/Kg-dry	1	4/10/2008 9:51:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		101.9	%REC	1	4/10/2008 9:51:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.2	%REC	1	4/10/2008 9:51:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		99.0	%REC	1	4/10/2008 9:51:00 AM	JSA
Surr: Toluene-d8		80.1-122		98.9	%REC	1	4/10/2008 9:51:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040238  
**Lab ID:** 08040238-029  
**Report Date:** 11-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-832 (20-21 ft)  
**Collection Date:** 4/4/2008 9:40:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.3	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.7	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Phenanthrene	NELAP	0.004		0.004	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 1:37:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		48.7	%REC	1	4/9/2008 1:37:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		53.3	%REC	1	4/9/2008 1:37:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.5	%REC	1	4/9/2008 1:37:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.6	µg/Kg-dry	1	4/10/2008 10:22:00 AM	JSA
Ethylbenzene	NELAP	4.4		ND	µg/Kg-dry	1	4/10/2008 10:22:00 AM	JSA
Toluene	NELAP	4.4	J	1.8	µg/Kg-dry	1	4/10/2008 10:22:00 AM	JSA
Xylenes, Total	NELAP	4.4	J	1.1	µg/Kg-dry	1	4/10/2008 10:22:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.7	%REC	1	4/10/2008 10:22:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117	S	76.4	%REC	1	4/10/2008 10:22:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		102.8	%REC	1	4/10/2008 10:22:00 AM	JSA
Surr: Toluene-d8		80.1-122		86.6	%REC	1	4/10/2008 10:22:00 AM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-030

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-838 (1-2 ft)

Collection Date: 4/4/2008 11:20:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		24.7	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		75.3	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.019	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Anthracene	NELAP	0.004		0.039	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.113	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.094	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.128	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.046	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.049	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Chrysene	NELAP	0.004		0.117	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.018	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Fluoranthene	NELAP	0.004		0.270	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Fluorene	NELAP	0.004		0.010	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.049	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Naphthalene	NELAP	0.004		0.006	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Phenanthrene	NELAP	0.004		0.163	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Pyrene	NELAP	0.004		0.200	mg/Kg-dry	1	4/8/2008 4:21:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		49.9	%REC	1	4/8/2008 4:21:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		57.3	%REC	1	4/8/2008 4:21:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		77.4	%REC	1	4/8/2008 4:21:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.5		ND	µg/Kg-dry	1	4/10/2008 10:52:00 AM	JSA
Ethylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	4/10/2008 10:52:00 AM	JSA
Toluene	NELAP	7.3		ND	µg/Kg-dry	1	4/10/2008 10:52:00 AM	JSA
Xylenes, Total	NELAP	7.3		ND	µg/Kg-dry	1	4/10/2008 10:52:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.0	%REC	1	4/10/2008 10:52:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.1	%REC	1	4/10/2008 10:52:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		98.9	%REC	1	4/10/2008 10:52:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.9	%REC	1	4/10/2008 10:52:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-031

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-838 (9-10 ft)

Collection Date: 4/4/2008 11:31:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		18.2	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.8	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 9:48:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		49.7	%REC	1	4/8/2008 9:48:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		52.7	%REC	1	4/8/2008 9:48:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		68.1	%REC	1	4/8/2008 9:48:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		2.7	µg/Kg-dry	1	4/10/2008 11:22:00 AM	JSA
Ethylbenzene	NELAP	4.9	J	1.8	µg/Kg-dry	1	4/10/2008 11:22:00 AM	JSA
Toluene	NELAP	4.9		6.4	µg/Kg-dry	1	4/10/2008 11:22:00 AM	JSA
Xylenes, Total	NELAP	4.9	J	3.5	µg/Kg-dry	1	4/10/2008 11:22:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		69.1	%REC	1	4/10/2008 11:22:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		111.6	%REC	1	4/10/2008 11:22:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		69.5	%REC	1	4/10/2008 11:22:00 AM	JSA
Surr: Toluene-d8		80.1-122		103.5	%REC	1	4/10/2008 11:22:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental  
WorkOrder: 08040238  
Lab ID: 08040238-032  
Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ  
Client Sample ID: B-838 (15-16 ft)  
Collection Date: 4/4/2008 12:16:00 PM  
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.1	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.9	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.369		36.8	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Acenaphthylene	NELAP	0.369		12.7	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Anthracene	NELAP	0.369		27.6	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Benzo(a)anthracene	NELAP	0.369		17.1	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Benzo(a)pyrene	NELAP	0.369		14.1	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.369		14.0	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.369		5.31	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.369		5.34	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Chrysene	NELAP	0.369		15.3	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.369		1.79	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Fluoranthene	NELAP	0.369		41.2	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Fluorene	NELAP	0.369		31.3	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.369		5.10	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Naphthalene	NELAP	1.85		316	mg/Kg-dry	250	4/9/2008 9:54:00 AM	TDN
Phenanthrene	NELAP	0.369		79.9	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Pyrene	NELAP	0.369		38.8	mg/Kg-dry	50	4/8/2008 4:57:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		69.9	%REC	50	4/8/2008 4:57:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	50	4/8/2008 4:57:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		79.8	%REC	50	4/8/2008 4:57:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	38.2		1960	µg/Kg-dry	25	4/10/2008 5:18:00 AM	JSA
Ethylbenzene	NELAP	191		2830	µg/Kg-dry	25	4/10/2008 5:18:00 AM	JSA
Toluene	NELAP	191		4330	µg/Kg-dry	25	4/10/2008 5:18:00 AM	JSA
Xylenes, Total	NELAP	191		10800	µg/Kg-dry	25	4/10/2008 5:18:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		101.2	%REC	25	4/10/2008 5:18:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		108.2	%REC	25	4/10/2008 5:18:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		100.6	%REC	25	4/10/2008 5:18:00 AM	JSA
Surr: Toluene-d8		80.1-122		109.7	%REC	25	4/10/2008 5:18:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-838 (29-30 ft)

Lab ID: 08040238-033

Collection Date: 4/4/2008 12:52:00 PM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.4	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.6	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.052	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.021	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Anthracene	NELAP	0.004		0.045	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.034	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.027	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.028	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.012	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.010	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Chrysene	NELAP	0.004		0.030	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.004	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Fluoranthene	NELAP	0.004		0.078	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Fluorene	NELAP	0.004		0.049	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Naphthalene	NELAP	0.004		0.388	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Phenanthrene	NELAP	0.004		0.149	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Pyrene	NELAP	0.004		0.073	mg/Kg-dry	1	4/8/2008 5:33:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		57.7	%REC	1	4/8/2008 5:33:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		57.9	%REC	1	4/8/2008 5:33:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.1	%REC	1	4/8/2008 5:33:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		1.5	µg/Kg-dry	1	4/10/2008 11:51:00 AM	JSA
Ethylbenzene	NELAP	3.9	J	0.9	µg/Kg-dry	1	4/10/2008 11:51:00 AM	JSA
Toluene	NELAP	3.9	J	2.1	µg/Kg-dry	1	4/10/2008 11:51:00 AM	JSA
Xylenes, Total	NELAP	3.9	J	2.9	µg/Kg-dry	1	4/10/2008 11:51:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		98.3	%REC	1	4/10/2008 11:51:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		80.5	%REC	1	4/10/2008 11:51:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		99.2	%REC	1	4/10/2008 11:51:00 AM	JSA
Surr: Toluene-d8		80.1-122		94.0	%REC	1	4/10/2008 11:51:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040238

Lab ID: 08040238-034

Report Date: 11-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-820 (8.5-9.5 ft)

Collection Date: 4/4/2008 1:41:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.6	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.4	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 11:43:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.7	%REC	1	4/8/2008 11:43:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		54.7	%REC	1	4/8/2008 11:43:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		70.3	%REC	1	4/8/2008 11:43:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		ND	µg/Kg-dry	1	4/10/2008 12:21:00 PM	JSA
Ethylbenzene	NELAP	5.1		ND	µg/Kg-dry	1	4/10/2008 12:21:00 PM	JSA
Toluene	NELAP	5.1		ND	µg/Kg-dry	1	4/10/2008 12:21:00 PM	JSA
Xylenes, Total	NELAP	5.1		ND	µg/Kg-dry	1	4/10/2008 12:21:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.3	%REC	1	4/10/2008 12:21:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.9	%REC	1	4/10/2008 12:21:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.8	%REC	1	4/10/2008 12:21:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.5	%REC	1	4/10/2008 12:21:00 PM	JSA

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-820 (1-2 ft)

Lab ID: 08040238-035

Collection Date: 4/4/2008 2:41:00 PM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.7	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.3	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.011	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.008	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.017	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.012	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Chrysene	NELAP	0.004		0.008	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.010	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Naphthalene	NELAP	0.004		0.005	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Phenanthrene	NELAP	0.004		0.007	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Pyrene	NELAP	0.004		0.014	mg/Kg-dry	1	4/8/2008 6:08:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		54.5	%REC	1	4/8/2008 6:08:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		57.1	%REC	1	4/8/2008 6:08:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		62.7	%REC	1	4/8/2008 6:08:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		1.3	µg/Kg-dry	1	4/10/2008 12:52:00 PM	JSA
Ethylbenzene	NELAP	6.0		ND	µg/Kg-dry	1	4/10/2008 12:52:00 PM	JSA
Toluene	NELAP	6.0		ND	µg/Kg-dry	1	4/10/2008 12:52:00 PM	JSA
Xylenes, Total	NELAP	6.0		ND	µg/Kg-dry	1	4/10/2008 12:52:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.7	%REC	1	4/10/2008 12:52:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		90.8	%REC	1	4/10/2008 12:52:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		98.8	%REC	1	4/10/2008 12:52:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.3	%REC	1	4/10/2008 12:52:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040238

Client Sample ID: B-820 (25-26 ft)

Lab ID: 08040238-036

Collection Date: 4/4/2008 2:53:00 PM

Report Date: 11-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.1	%	1	4/7/2008	HMH
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.9	%	1	4/7/2008	HMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Phenanthrene	NELAP	0.004		0.007	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/9/2008 12:21:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		49.7	%REC	1	4/9/2008 12:21:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		49.9	%REC	1	4/9/2008 12:21:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.3	%REC	1	4/9/2008 12:21:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.7	µg/Kg-dry	1	4/10/2008 1:22:00 PM	JSA
Ethylbenzene	NELAP	4.6		ND	µg/Kg-dry	1	4/10/2008 1:22:00 PM	JSA
Toluene	NELAP	4.6	J	1.7	µg/Kg-dry	1	4/10/2008 1:22:00 PM	JSA
Xylenes, Total	NELAP	4.6		ND	µg/Kg-dry	1	4/10/2008 1:22:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		96.7	%REC	1	4/10/2008 1:22:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		80.6	%REC	1	4/10/2008 1:22:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		98.4	%REC	1	4/10/2008 1:22:00 PM	JSA
Surr: Toluene-d8		80.1-122		91.8	%REC	1	4/10/2008 1:22:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040238-001A	B-824 (1-3 ft)	4/4/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	4/8/2008	4/9/2008
				SW-846 3550B, 8270C SIMS. Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040238-001B				ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 9010B, 9014	4/7/2008	4/8/2008
				SW-846 9014A	4/7/2008	4/8/2008
08040238-001E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-002A	B-824 (9-10 ft)			SW-846 3050B, 6010B, Metals by ICP	4/8/2008	4/9/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040238-002B				ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 9010B, 9014	4/7/2008	4/8/2008
				SW-846 9014A	4/7/2008	4/8/2008
08040238-002E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-003A	B-824 (23-24 ft)			SW-846 3050B, 6010B, Metals by ICP	4/8/2008	4/9/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040238-003B				ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 9010B, 9014	4/7/2008	4/8/2008
				SW-846 9014A	4/7/2008	4/8/2008
08040238-003E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-004A	B-821 (9-10 ft)			ASTM D2974		4/7/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040238-004A	B-821 (9-10 ft)	4/4/2008	Solid	Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040238-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-005A	B-821 (0.5-3 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040238-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-006A	B-821 (19-20 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040238-006D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-007A	B-835 (28-29 ft)	4/3/2008		SW-846 3050B, 6010B, Metals by ICP	4/8/2008	4/9/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040238-007B				ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 9010B, 9014	4/7/2008	4/8/2008
				SW-846 9014A	4/7/2008	4/8/2008
08040238-007E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-008A	B-825 (2-3 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/7/2008
08040238-008D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040238-009A	B-825 (8-9 ft)	4/3/2008	Solid	ASTM D2974		4/8/2008
				Standard Methods 18th Ed. 2540 G		4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-009D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-010A	B-825 (18-19 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-010D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-011A	B-825 (25-26 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3050B, 6010B, Metals by ICP	4/8/2008	4/9/2008
				SW-846 9010B, 9014	4/7/2008	4/8/2008
				SW-846 9014A	4/7/2008	4/8/2008
08040238-012A	B-826 (2-3 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-012D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-013A	B-826 (8-9 ft)			ASTM D2974		4/8/2008
				Standard Methods 18th Ed. 2540 G		4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 9045C		4/10/2008
08040238-013D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040238-014A	B-826 (16-17 ft)	4/3/2008	Solid	ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 9045C		4/10/2008
08040238-014D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-015A	B-828 (2-3 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-015D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-016A	B-828-DUP (2-3 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-016D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-017A	B-828 (9-10 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-017D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-018A	B-828 (12-13 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-018D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/9/2008
08040238-019A	B-828 (17-18 ft)			ASTM D2974		4/7/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040238-019A	B-828 (17-18 ft)	4/3/2008	Solid	Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-019D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-020A	B-830 (2-3 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-020D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-021A	B-830 (8-9 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-021D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-022A	B-830 (28-30 ft)			SW-846 3050B, 6010B, Metals by ICP	4/8/2008	4/9/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-022B				ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 9010B, 9014	4/7/2008	4/8/2008
				SW-846 9014A	4/7/2008	4/8/2008
08040238-022E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-023A	B-831 (1-3 ft)			SW-846 3050B, 6010B, Metals by ICP	4/8/2008	4/9/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-023B				ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008

ENVIRONMENTAL TESTING LABORATORY

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## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040238-023B	B-831 (1-3 ft)	4/3/2008	Solid	SW-846 9010B, 9014	4/7/2008	4/8/2008
				SW-846 9014A	4/7/2008	4/8/2008
08040238-023E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-024A	B-831 (9-10 ft)			SW-846 3050B, 6010B, Metals by ICP	4/8/2008	4/9/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/9/2008
08040238-024B				ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 9010B, 9014	4/7/2008	4/8/2008
				SW-846 9014A	4/7/2008	4/8/2008
08040238-024E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-025A	B-831 (10.5-12 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-025D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-026A	B-831 (18-20 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/9/2008
08040238-026D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-027A	B-832 (2-3 ft)	4/4/2008		ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008



ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040238-027D	B-832 (2-3 ft)	4/4/2008	Solid	SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-028A	B-832 (7-8 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/9/2008
08040238-028D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-029A	B-832 (20-21 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/9/2008
08040238-029D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-030A	B-838 (1-2 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-030D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-031A	B-838 (9-10 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-031D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-032A	B-838 (15-16 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/9/2008
08040238-032D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008

ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040238

**Report Date:** 11-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040238-033A	B-838 (29-30 ft)	4/4/2008	Solid	ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-033D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-034A	B-820 (8.5-9.5 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-034D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-035A	B-820 (1-2 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/8/2008
08040238-035D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008
08040238-036A	B-820 (25-26 ft)			ASTM D2974		4/7/2008
				Standard Methods 18th Ed. 2540 G		4/7/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/7/2008	4/9/2008
08040238-036D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/9/2008	4/10/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

	Qualifiers			
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference	
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite	
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range	
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded	
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: L\_ACN\_S\_MT

Sample ID: MB-43951	SampType: MBLK	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106595
Client ID: ZZZZZZ	Batch ID: 43951	SOP2092	Analysis Date: 4/8/2008	SeqNo: 1903757
Analyte	Result	PQL	SPK value	SPK Ref Val
	< 0.01	0.01		
		%REC	LowLimit	HighLimit
			RPD Ref Val	RPD
				RPDLimit
				Qual

Sample ID: LCS-43951	SampType: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106595
Client ID: ZZZZZZ	Batch ID: 43951	SOP2092	Analysis Date: 4/8/2008	SeqNo: 1903758
Analyte	Result	PQL	SPK value	SPK Ref Val
	0.20	0.01	0.2000	
		%REC	LowLimit	HighLimit
			RPD Ref Val	RPD
				RPDLimit
				Qual

Cyanide, Amenable to Chlorination			85	115
		101.4		
		0		

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: I\_TCN\_S\_MT

Sample ID: 08040238-007BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106589
Client ID: B-835 (28-29 ft)MS	Batch ID: 43953	SW9010	Analysis Date: 4/8/2008	SeqNo: 1903714
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	6.46	0.55	5.472	0.5890
		%REC	LowLimit	HighLimit
		107.2	80	120
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: 08040238-007BMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106589
Client ID: B-835 (28-29 ft)MSD	Batch ID: 43953	SW9010	Analysis Date: 4/8/2008	SeqNo: 1903715
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	6.05	0.51	5.142	0.5890
		%REC	LowLimit	HighLimit
		106.2	80	120
		%RPD	RPD Ref Val	RPDLimit
			6.458	6.56
				20

Sample ID: MB-43953	SampType: MBLK	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106589
Client ID: ZZZZZZ	Batch ID: 43953	SW9010	Analysis Date: 4/8/2008	SeqNo: 1904431
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	< 0.01	0.01		
		%REC	LowLimit	HighLimit
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: LCS-43953	SampType: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106589
Client ID: ZZZZZZ	Batch ID: 43953	SW9010	Analysis Date: 4/8/2008	SeqNo: 1904432
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.20	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		101.4	85	115
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: LCSD-43953	SampType: LCSD	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106589
Client ID: ZZZZZZ	Batch ID: 43953	SW9010	Analysis Date: 4/8/2008	SeqNo: 1904433
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.20	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		98.5	85	115
		%RPD	RPD Ref Val	RPDLimit
			0.2027	2.91
				15

# ANALYTICAL QC SUMMARY REPORT

TestCode: **L\_TS\_M\_MT**

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

Sample ID: <b>LCS-R106529</b>	SampType: <b>LCS</b>	Units: %	Prep Date:	RunNo: <b>106529</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R106529</b>		Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1902345</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	99.0	90	110				

Sample ID: <b>LCSQC</b>	SampType: <b>LCSQC</b>	Units: %	Prep Date:	RunNo: <b>106529</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R106529</b>		Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1902346</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	99.0	90	110				

Sample ID: <b>LCS-R106529</b>	SampType: <b>LCS</b>	Units: %	Prep Date:	RunNo: <b>106529</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R106529</b>		Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1902349</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: <b>LCSQC</b>	SampType: <b>LCSQC</b>	Units: %	Prep Date:	RunNo: <b>106529</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R106529</b>		Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1902350</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: <b>08040238-005ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>106529</b>							
Client ID: <b>B-821 (0.5-3 ft)DUP</b>	Batch ID: <b>R106529</b>		Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1902390</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	82.2	0.1						82.47	0.340	15	

Sample ID: <b>08040238-026ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>106529</b>							
Client ID: <b>B-831 (18-20 ft)DUP</b>	Batch ID: <b>R106529</b>		Analysis Date: <b>4/7/2008</b>	SeqNo: <b>1902410</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: I\_TS\_M\_MT

Sample ID: 08040238-026ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106529							
Client ID: B-831 (18-20 ft)DUP	Batch ID: R106529		Analysis Date: 4/7/2008	SeqNo: 1902410							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	89.5	0.1	1.000	0	100	90	110	89.17	0.325	15	

Sample ID: LCS-R106561	SampType: LCS	Units: %	Prep Date:	RunNo: 106561							
Client ID: ZZZZZZ	Batch ID: R106561		Analysis Date: 4/8/2008	SeqNo: 1903133							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 106561							
Client ID: ZZZZZZ	Batch ID: R106561		Analysis Date: 4/8/2008	SeqNo: 1903134							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: 08040238-013ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106561							
Client ID: B-826 (8-9 ft)DUP	Batch ID: R106561		Analysis Date: 4/8/2008	SeqNo: 1903137							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	83.3	0.1	1.000	0	100	90	110	84.16	1.03	15	

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign 62403053  
**Lab Order:** 08040238      **Report Date:** 11-Apr-08

**TestCode: L\_PH\_S\_M**

Sample ID: <b>LCS-R106646</b>	SampType: <b>LCS</b>	Units:	Prep Date:
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R106646</b>		Analysis Date: <b>4/10/2008</b>
Analyte	Result	PQL	SPK value
pH (1:1)	7.01	1.00	7.000
			SPK Ref Val
			0
		%REC	100.1
		LowLimit	99.1
		HighLimit	100.9
		RPD Ref Val	
		%RPD	
		RPDLimit	
		Qual	
			RunNo: <b>106646</b>
			SeqNo: <b>1904984</b>

Sample ID: <b>08040238-014ADUP</b>	SampType: <b>DUP</b>	Units:	Prep Date:
Client ID: <b>B-826 (16-17 ft)DUP</b>	Batch ID: <b>R106646</b>		Analysis Date: <b>4/10/2008</b>
Analyte	Result	PQL	SPK value
pH (1:1)	8.15	1.00	7.000
			SPK Ref Val
			0
		%REC	100.1
		LowLimit	99.1
		HighLimit	100.9
		RPD Ref Val	
		%RPD	
		RPDLimit	
		Qual	
			RunNo: <b>106646</b>
			SeqNo: <b>1904987</b>

8.210      0.733      10



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: M\_SOLIDS\_ICP

Sample ID: MB-43905	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/8/2008	RunNo: 106552
Client ID: ZZZZZZ	Batch ID: 43905	SOP 3032	Analysis Date: 4/9/2008	SeqNo: 1903271

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-43905	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/8/2008	RunNo: 106552
Client ID: ZZZZZZ	Batch ID: 43905	SOP 3032	Analysis Date: 4/9/2008	SeqNo: 1903272

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	208	2.50	200.0	0	103.9	85	115				
Chromium	20.6	1.00	20.00	0	102.9	85	115				
Lead	49.6	4.00	50.00	0	99.2	85	115				

Sample ID: 08040238-003AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/8/2008	RunNo: 106552
Client ID: B-824 (23-24 ft)MS	Batch ID: 43905	SOP 3032	Analysis Date: 4/9/2008	SeqNo: 1903277

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	190	2.45	196.1	8.176	92.8	75	125				
Chromium	33.3	0.98	19.61	15.49	90.8	75	125				
Lead	48.9	3.92	49.02	10.52	78.3	75	125				

Sample ID: 08040238-003AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/8/2008	RunNo: 106552
Client ID: B-824 (23-24 ft)MSD	Batch ID: 43905	SOP 3032	Analysis Date: 4/9/2008	SeqNo: 1903278

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	192	2.45	196.1	8.176	93.6	75	125	190.1	0.873	20	
Chromium	31.4	0.98	19.61	15.49	81.1	75	125	33.29	5.88	20	
Lead	47.8	3.92	49.02	10.52	76.0	75	125	48.89	2.31	20	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: MB-43881	SampType: MBLK	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1901585							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.123		0.1670		73.9	17.5	123				
Surr: Nitrobenzene-d5	0.114		0.1670		68.1	35	105				
Surr: p-Terphenyl-d14	0.124		0.1670		74.5	53.6	122				

Sample ID: LCS-43881	SampType: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1901586							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.110	0.003	0.1670	0	66.1	56.3	115				
Acenaphthylene	0.134	0.003	0.1670	0	80.5	60.3	143				
Anthracene	0.106	0.003	0.1670	0	63.2	52.1	109				
Benzo(a)anthracene	0.109	0.003	0.1670	0	65.0	52.8	112				
Benzo(a)pyrene	0.111	0.003	0.1670	0	66.6	40.8	127				
Benzo(b)fluoranthene	0.126	0.003	0.1670	0	75.3	50.1	150				
Benzo(g,h,i)perylene	0.123	0.003	0.1670	0	73.6	52.8	145				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: LCS-43881	SampType: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106478							
Client ID: ZZZZZZ	Batch ID: 43881	SW3550B	Analysis Date: 4/7/2008	SeqNo: 1901586							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.128	0.003	0.1670	0	76.9	52	153				
Chrysene	0.120	0.003	0.1670	0	71.6	60.8	128				
Dibenzo(a,h)anthracene	0.122	0.003	0.1670	0	73.1	54.9	150				
Fluoranthene	0.114	0.003	0.1670	0	68.4	58.7	125				
Fluorene	0.116	0.003	0.1670	0	69.6	57.8	125				
Indeno(1,2,3-cd)pyrene	0.120	0.003	0.1670	0	71.9	52	147				
Naphthalene	0.091	0.003	0.1670	0	54.7	54.8	113				S
Phenanthrene	0.115	0.003	0.1670	0	68.8	60.4	121				
Pyrene	0.117	0.003	0.1670	0	70.2	57.9	129				
Surr: 2-Fluorobiphenyl	0.115		0.1670		69.1	35.3	113				
Surr: Nitrobenzene-d5	0.106		0.1670		63.7	33.9	108				
Surr: p-Terphenyl-d14	0.118		0.1670		70.7	58.4	122				

Sample ID: MB-43897	SampType: MBLK	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106538							
Client ID: ZZZZZZ	Batch ID: 43897	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902677							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: MB-43897	Samp Type: MBLK	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106538							
Client ID: ZZZZZZ	Batch ID: 43897	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902677							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.118		0.1670		70.5	17.5	123				
Surr: Nitrobenzene-d5	0.108		0.1670		64.7	35	105				
Surr: p-Terphenyl-d14	0.126		0.1670		75.2	53.6	122				

Sample ID: LCS-43897	Samp Type: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106538							
Client ID: ZZZZZZ	Batch ID: 43897	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902678							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.123	0.003	0.1670	0	73.7	56.3	115				
Acenaphthylene	0.144	0.003	0.1670	0	85.9	60.3	143				
Anthracene	0.120	0.003	0.1670	0	72.0	52.1	109				
Benzo(a)anthracene	0.128	0.003	0.1670	0	76.7	52.8	112				
Benzo(a)pyrene	0.126	0.003	0.1670	0	75.7	40.8	127				
Benzo(b)fluoranthene	0.138	0.003	0.1670	0	82.9	50.1	150				
Benzo(g,h,i)perylene	0.139	0.003	0.1670	0	83.4	52.8	145				
Benzo(k)fluoranthene	0.142	0.003	0.1670	0	84.9	52	153				
Chrysene	0.145	0.003	0.1670	0	87.1	60.8	128				
Dibenzo(a,h)anthracene	0.142	0.003	0.1670	0	85.1	54.9	150				
Fluoranthene	0.124	0.003	0.1670	0	74.0	58.7	125				
Fluorene	0.130	0.003	0.1670	0	77.6	57.8	125				
Indeno(1,2,3-cd)pyrene	0.139	0.003	0.1670	0	83.2	52	147				
Naphthalene	0.111	0.003	0.1670	0	66.4	54.8	113				
Phenanthrene	0.130	0.003	0.1670	0	77.7	60.4	121				
Pyrene	0.130	0.003	0.1670	0	77.7	57.9	129				
Surr: 2-Fluorobiphenyl	0.113		0.1670		67.5	35.3	113				
Surr: Nitrobenzene-d5	0.112		0.1670		66.9	33.9	108				
Surr: p-Terphenyl-d14	0.120		0.1670		71.7	58.4	122				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: MB-43900	SampType: MBLK	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106538							
Client ID: ZZZZZZ	Batch ID: 43900	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902679							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.127		0.1670		76.2	17.5	123				
Surr: Nitrobenzene-d5	0.107		0.1670		64.3	35	105				
Surr: p-Terphenyl-d14	0.144		0.1670		86.0	53.6	122				

Sample ID: LCS-43900	SampType: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106538							
Client ID: ZZZZZZ	Batch ID: 43900	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902680							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.130	0.003	0.1670	0	78.0	56.3	115				
Acenaphthylene	0.148	0.003	0.1670	0	88.5	60.3	143				
Anthracene	0.124	0.003	0.1670	0	74.4	52.1	109				
Benzo(a)anthracene	0.130	0.003	0.1670	0	77.9	52.8	112				
Benzo(a)pyrene	0.131	0.003	0.1670	0	78.6	40.8	127				
Benzo(b)fluoranthene	0.144	0.003	0.1670	0	86.0	50.1	150				
Benzo(g,h,i)perylene	0.144	0.003	0.1670	0	86.2	52.8	145				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: LCS-43900	SampType: LCS	Units: mg/Kg	Prep Date: 4/7/2008	RunNo: 106538
Client ID: ZZZZZZ	Batch ID: 43900	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902680

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.144	0.003	0.1670	0	86.5	52	153				
Chrysene	0.143	0.003	0.1670	0	85.8	60.8	128				
Dibenzo(a,h)anthracene	0.146	0.003	0.1670	0	87.5	54.9	150				
Fluoranthene	0.133	0.003	0.1670	0	79.4	58.7	125				
Fluorene	0.134	0.003	0.1670	0	80.2	57.8	125				
Indeno(1,2,3-cd)pyrene	0.144	0.003	0.1670	0	86.4	52	147				
Naphthalene	0.113	0.003	0.1670	0	67.8	54.8	113				
Phenanthrene	0.137	0.003	0.1670	0	81.8	60.4	121				
Pyrene	0.138	0.003	0.1670	0	82.4	57.9	129				
Surr: 2-Fluorobiphenyl	0.114		0.1670		68.1	35.3	113				
Surr: Nitrobenzene-d5	0.112		0.1670		67.1	33.9	108				
Surr: p-Terphenyl-d14	0.127		0.1670		76.2	58.4	122				

Sample ID: 08040238-010AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106538
Client ID: B-825 (18-19 ft)MS	Batch ID: 43897	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.120	0.004	0.1854	0	64.9	36	135				
Acenaphthylene	0.140	0.004	0.1854	0	75.4	17.2	167				
Anthracene	0.123	0.004	0.1854	0	66.6	39.3	124				
Benzo(a)anthracene	0.130	0.004	0.1854	0	70.2	10	183				
Benzo(a)pyrene	0.133	0.004	0.1854	0	71.9	10	204				
Benzo(b)fluoranthene	0.142	0.004	0.1854	0	76.6	10.6	178				
Benzo(g,h,i)perylene	0.144	0.004	0.1854	0	77.5	10	168				
Benzo(k)fluoranthene	0.145	0.004	0.1854	0	78.4	27.6	181				
Chrysene	0.148	0.004	0.1854	0	79.9	10	176				
Dibenzo(a,h)anthracene	0.148	0.004	0.1854	0	80.0	12.2	156				
Fluoranthene	0.129	0.004	0.1854	0	69.4	10	227				
Fluorene	0.123	0.004	0.1854	0	66.3	35.2	148				
Indeno(1,2,3-cd)pyrene	0.142	0.004	0.1854	0	76.8	10	164				
Naphthalene	0.108	0.004	0.1854	0	58.4	14.7	128				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040238

Report Date: 11-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08040238-010AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106538							
Client ID: B-825 (18-19 ft)MS	Batch ID: 43897	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902682							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Phenanthrene	0.136	0.004	0.1854	0	73.6	32.8	143				
Pyrene	0.136	0.004	0.1854	0	73.4	10	180				
Surr: 2-Fluorobiphenyl	0.124		0.1854		66.9	10	131				
Surr: Nitrobenzene-d5	0.117		0.1854		63.3	10	132				
Surr: p-Terphenyl-d14	0.132		0.1854		71.1	30.6	131				

Sample ID: 08040238-010AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106538							
Client ID: B-825 (18-19 ft)MSD	Batch ID: 43897	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902683							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Acenaphthene	0.121	0.004	0.1876	0	64.6	36	135	0.1203	0.696	49.7	
Acenaphthylene	0.143	0.004	0.1876	0	76.0	17.2	167	0.1398	1.98	33.3	
Anthracene	0.121	0.004	0.1876	0	64.7	39.3	124	0.1235	1.70	51.1	
Benzo(a)anthracene	0.129	0.004	0.1876	0	68.8	10	183	0.1302	0.881	40.6	
Benzo(a)pyrene	0.129	0.004	0.1876	0	68.7	10	204	0.1333	3.44	56.4	
Benzo(b)fluoranthene	0.143	0.004	0.1876	0	76.4	10.6	178	0.1420	0.924	49.7	
Benzo(g,h,i)perylene	0.149	0.004	0.1876	0	79.4	10	168	0.1438	3.60	36.5	
Benzo(k)fluoranthene	0.147	0.004	0.1876	0	78.3	27.6	181	0.1454	0.980	42.6	
Chrysene	0.148	0.004	0.1876	0	79.1	10	176	0.1481	0.129	45.1	
Dibenzo(a,h)anthracene	0.150	0.004	0.1876	0	79.9	12.2	156	0.1484	1.01	39.9	
Fluoranthene	0.126	0.004	0.1876	0	67.2	10	227	0.1287	2.00	66.2	
Fluorene	0.129	0.004	0.1876	0	68.6	35.2	148	0.1229	4.62	65.6	
Indeno(1,2,3-cd)pyrene	0.147	0.004	0.1876	0	78.6	10	164	0.1424	3.50	36.5	
Naphthalene	0.106	0.004	0.1876	0	56.3	14.7	128	0.1083	2.46	39.6	
Phenanthrene	0.134	0.004	0.1876	0	71.3	32.8	143	0.1364	2.01	35.4	
Pyrene	0.132	0.004	0.1876	0	70.4	10	180	0.1361	3.04	60.1	
Surr: 2-Fluorobiphenyl	0.128		0.1876		68.1	10	131		0	40	
Surr: Nitrobenzene-d5	0.118		0.1876		62.9	10	132		0	40	
Surr: p-Terphenyl-d14	0.137		0.1876		73.3	30.6	131		0	40	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08040238-031AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106538
Client ID: B-838 (9-10 ft)MS	Batch ID: 43900	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902918

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.124	0.004	0.2020	0	61.2	36	135				
Acenaphthylene	0.139	0.004	0.2020	0	68.6	17.2	167				
Anthracene	0.120	0.004	0.2020	0	59.2	39.3	124				
Benzo(a)anthracene	0.126	0.004	0.2020	0	62.4	10	183				
Benzo(a)pyrene	0.130	0.004	0.2020	0	64.6	10	204				
Benzo(b)fluoranthene	0.143	0.004	0.2020	0	71.0	10.6	178				
Benzo(g,h,i)perylene	0.139	0.004	0.2020	0	68.9	10	168				
Benzo(k)fluoranthene	0.147	0.004	0.2020	0	73.0	27.6	181				
Chrysene	0.144	0.004	0.2020	0	71.2	10	176				
Dibenzo(a,h)anthracene	0.143	0.004	0.2020	0	70.8	12.2	156				
Fluoranthene	0.124	0.004	0.2020	0	61.3	10	227				
Fluorene	0.125	0.004	0.2020	0	61.8	35.2	148				
Indeno(1,2,3-cd)pyrene	0.141	0.004	0.2020	0	69.9	10	164				
Naphthalene	0.101	0.004	0.2020	0	49.9	14.7	128				
Phenanthrene	0.130	0.004	0.2020	0	64.6	32.8	143				
Pyrene	0.129	0.004	0.2020	0	63.7	10	180				
Surr: 2-Fluorobiphenyl	0.121		0.2020		59.7	10	131				
Surr: Nitrobenzene-d5	0.112		0.2020		55.5	10	132				
Surr: p-Terphenyl-d14	0.132		0.2020		65.3	30.6	131				

Sample ID: 08040238-031AMS	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106538
Client ID: B-838 (9-10 ft)MS	Batch ID: 43900	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902919

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.131	0.004	0.2037	0	64.2	36	135	0.1236	5.57	49.7	
Acenaphthylene	0.155	0.004	0.2037	0	75.9	17.2	167	0.1386	11.0	33.3	
Anthracene	0.125	0.004	0.2037	0	61.4	39.3	124	0.1196	4.53	51.1	
Benzo(a)anthracene	0.137	0.004	0.2037	0	67.0	10	183	0.1261	7.98	40.6	
Benzo(a)pyrene	0.136	0.004	0.2037	0	66.8	10	204	0.1304	4.24	56.4	
Benzo(b)fluoranthene	0.148	0.004	0.2037	0	72.7	10.6	178	0.1434	3.20	49.7	
Benzo(g,h,i)perylene	0.144	0.004	0.2037	0	70.9	10	168	0.1391	3.69	36.5	



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040238

Report Date: 11-Apr-08

Test Code: SV\_8270S\_S\_SIMS

Sample ID: 08040238-031AMSD	Samp Type: MSD	Units: mg/Kg-dry	Prep Date: 4/7/2008	RunNo: 106538							
Client ID: B-838 (9-10 ft)MSD	Batch ID: 43900	SW3550B	Analysis Date: 4/8/2008	SeqNo: 1902919							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.155	0.004	0.2037	0	75.9	27.6	181	0.1475	4.80	42.6	
Chrysene	0.155	0.004	0.2037	0	76.0	10	176	0.1438	7.42	45.1	
Dibenzo(a,h)anthracene	0.150	0.004	0.2037	0	73.8	12.2	156	0.1430	4.95	39.9	
Fluoranthene	0.136	0.004	0.2037	0	66.7	10	227	0.1239	9.25	66.2	
Fluorene	0.137	0.004	0.2037	0	67.4	35.2	148	0.1249	9.48	65.6	
Indeno(1,2,3-cd)pyrene	0.148	0.004	0.2037	0	72.6	10	164	0.1411	4.73	36.5	
Naphthalene	0.112	0.004	0.2037	0	54.9	14.7	128	0.1008	10.5	39.6	
Phenanthrene	0.137	0.004	0.2037	0	67.2	32.8	143	0.1305	4.89	35.4	
Pyrene	0.139	0.004	0.2037	0	68.3	10	180	0.1287	7.81	60.1	
Surr: 2-Fluorobiphenyl	0.111		0.2037		54.3	10	131		0	40	
Surr: Nitrobenzene-d5	0.105		0.2037		51.3	10	132		0	40	
Surr: p-Terphenyl-d14	0.137		0.2037		67.1	30.6	131		0	40	

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

Sample ID: LCS-G080409-1	SampType: LCS	Units: µg/Kg	Prep Date: 4/9/2008	RunNo: 106598							
Client ID: ZZZZZZ	Batch ID: 43954	SW5035	Analysis Date: 4/9/2008	SeqNo: 1903869							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.5	1.0	50.00	0	97.0	75	123				
Toluene	48.3	5.0	50.00	0	96.7	77.3	117				
Ethylbenzene	50.7	5.0	50.00	0	101.4	80.8	118				
Xylenes, Total	101	5.0	100.0	0	100.9	78.5	121				
Surr: 1,2-Dichloroethane-d4	46.7		50.00		93.3	61	128				
Surr: 4-Bromofluorobenzene	49.4		50.00		98.8	78.2	117				
Surr: Dibromofluoromethane	48.8		50.00		97.6	66.6	130				
Surr: Toluene-d8	49.4		50.00		98.9	80.1	122				

Sample ID: LCSD-G080409-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/9/2008	RunNo: 106598							
Client ID: ZZZZZZ	Batch ID: 43954	SW5035	Analysis Date: 4/9/2008	SeqNo: 1903870							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.0	1.0	50.00	0	103.9	75	123	48.50	6.91	20	
Toluene	51.7	5.0	50.00	0	103.4	77.3	117	48.33	6.74	20	
Ethylbenzene	53.6	5.0	50.00	0	107.2	80.8	118	50.72	5.48	20	
Xylenes, Total	107	5.0	100.0	0	106.7	78.5	121	100.9	5.65	20	
Surr: 1,2-Dichloroethane-d4	48.2		50.00		96.5	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	78.2	117		0	0	
Surr: Dibromofluoromethane	49.5		50.00		99.0	66.6	130		0	0	
Surr: Toluene-d8	48.6		50.00		97.2	80.1	122		0	0	

Sample ID: MBLK-G080409-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/9/2008	RunNo: 106598							
Client ID: ZZZZZZ	Batch ID: 43954	SW5035	Analysis Date: 4/9/2008	SeqNo: 1903871							
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									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040238 Report Date: 11-Apr-08

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-G080409-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106598</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43954</b>	<b>SW5035</b>	Analysis Date: <b>4/9/2008</b>	SeqNo: <b>1903871</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	46.9		50.00		93.9	61	128				
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	78.2	117				
Surr: Dibromofluoromethane	47.9		50.00		95.8	66.6	130				
Surr: Toluene-d8	49.0		50.00		98.1	80.1	122				

Sample ID: <b>LCS-G080409-2</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106631</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43970</b>	<b>SW5035</b>	Analysis Date: <b>4/10/2008</b>	SeqNo: <b>1904640</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.1	1.0	50.00	0	96.3	75	123				
Toluene	46.7	5.0	50.00	0	93.5	77.3	117				
Ethylbenzene	47.0	5.0	50.00	0	94.1	80.8	118				
Xylenes, Total	93.6	5.0	100.0	0	93.6	78.5	121				
Surr: 1,2-Dichloroethane-d4	47.5		50.00		94.9	61	128				
Surr: 4-Bromofluorobenzene	49.7		50.00		99.4	78.2	117				
Surr: Dibromofluoromethane	49.1		50.00		98.2	66.6	130				
Surr: Toluene-d8	48.6		50.00		97.3	80.1	122				

Sample ID: <b>LCS-D-G080409-2</b>	SampType: <b>LCS-D</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106631</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43970</b>	<b>SW5035</b>	Analysis Date: <b>4/10/2008</b>	SeqNo: <b>1904641</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.4	1.0	50.00	0	94.8	75	123	48.13	1.49	20	
Toluene	46.0	5.0	50.00	0	92.1	77.3	117	46.73	1.49	20	
Ethylbenzene	46.8	5.0	50.00	0	93.7	80.8	118	47.03	0.405	20	
Xylenes, Total	92.4	5.0	100.0	0	92.4	78.5	121	93.56	1.30	20	
Surr: 1,2-Dichloroethane-d4	47.7		50.00		95.4	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.6		50.00		99.1	78.2	117		0	0	
Surr: Dibromofluoromethane	49.3		50.00		98.6	66.6	130		0	0	
Surr: Toluene-d8	48.9		50.00		97.7	80.1	122		0	0	

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign 62403053  
**Lab Order:** 08040238      **Report Date:** 11-Apr-08

**TestCode:** V\_BTEX\_S

Sample ID: <b>MBLK-G080409-2</b>	Samp Type: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/9/2008</b>	RunNo: <b>106631</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43970</b>	<b>SW5035</b>	Analysis Date: <b>4/10/2008</b>	SeqNo: <b>1904642</b>							
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	47.1		50.00		94.2	61	128				
Surr: 4-Bromofluorobenzene	49.2		50.00		98.3	78.2	117				
Surr: Dibromofluoromethane	48.2		50.00		96.4	66.6	130				
Surr: Toluene-d8	48.4		50.00		96.9	80.1	122				

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**RECEIVING CHECK LIST****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08040238**Report Date:** 11-Apr-08

Carrier: Leslie Hoosier

Received By: EC

Completed by: *Marvin L. Darling II*Reviewed by: *Elizabeth A. Hurley*

On:

On:

07-Apr-08

07-Apr-08

Marvin L. Darling

Elizabeth A. Hurley

Pages to follow: Chain of custody  Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 2.6
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<div style="border: 1px solid black; padding: 2px;"><i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i></div>				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230  
(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08040238

COC Serial No. **B** 08870

Project Name: <u>Amazin' Campaign</u>	Project Mgr.: <u>Derek Ingram</u>	Date	Time	Matrix				Total Number of Containers	Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
				Soil	Water	Air	Wipes				
Project Number: <u>6240253</u>	Cost Code: <u>024501</u>										
Sampler(s): <u>L. Hoosier</u>											
Laboratory Name: <u>Teklab</u>											
Location: <u>Collinsville IL</u>											
Sample Number and (depth)	Date	Time									
B-824 (1'-3')	4-4	0937	X	X	X	X	9	BEX 5035 PHT 8210B PHT 8270SMS Metals* Cyanide 9B10 9B10 FOC 02974-57 PH 9B45C	*Metals- ARSENIC, chromium, lead	08040238-001 -002 -003	
B-824 (9'-10')	4-4	1016	X	X	X	X	9				
B-824 (24'-24')	4-4	1053	X	X	X	X	9				
B-824 (9'-10')	4-4	1145	X	X	X	X	5				
B-824 (0.9'-3.0')	4-4	1122	X	X	X	X	5				
B-824 (19'-20')	4-4	1242	X	X	X	X	5				

Laboratory Temperature upon Receipt  
2.61°C

Samples Iced:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Preservatives (ONLY for Water Samples)		
<input type="checkbox"/> Volatile Organics		Hydrochloric acid (HCl)
<input type="checkbox"/> VOC Soil (5035)		Sodium Bisulfate/Methanol
<input type="checkbox"/> TPH		Hydrochloric acid and/or Sulfuric acid
<input type="checkbox"/> Metals		Nitric acid (HNO <sub>3</sub> )
<input type="checkbox"/> Cyanide		Sodium hydroxide (NaOH)
<input type="checkbox"/> Other (Specify)		

Lab Directives:

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

Shipping:	Relinquished by:	Received by:
Carrier / Airbill No.	Signature: <u>Jessie Hoosier</u>	Signature: <u>[Signature]</u>
	Date: <u>4-4-08</u>	Date: <u>4/10/08</u>
	Time: <u>1730</u>	Time: <u>1730</u>



# Chain of Custody Record

210 West Sand Bank Road  
 P.O. Box 230  
 Columbia, IL 62236-0230

COC Serial No. **B 08871**

08040238

Project Name: Ameson IP Chempign Project Mgr.: Dere V. Ingram  
 Project Number: 02403053 Cost Code: 024501  
 Sampler(s): L. Hoosier / R. Huson

Laboratory Name: Terlab  
 Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers
			Soil	Water	Air	Wipes *	
B 825 (28'-29')	4/3	0915	X				6
B 825 (20'-30')	4/3	1043	X				5
B 825 (8.0'-9.0')	4/3	1111	X				5
B 825 (8.0'-19.0')	4/3	1133	X				5
B 825 (25.0'-26.0')	4/3	1151	X				1
B 826 (2.0'-3.0')	4/3	1311	X				5
B 826 (8.0'-9.0')	4/3	1330	X				5
B 826 (16.0'-17.0')	4/3	1352	X				5

Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
BTEX 8260B		
PAH 8270SUM		
Metals #		
Cyanide		
fcc D2974		
PH 9045C		
metals - arsenic		08040238-007
chromium, lead		-008
Cyanide - total		-009
and amenable		-010
		-011
		-012
		-013
		-014

Laboratory Temperature upon Receipt  
4.8°C

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Jessie Hoosier Date 4-4-08 Time 1730

**Received by:** Signature Derek Ingram Date 4/4/08 Time 1730



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

COC Serial No. **B** 08872

08040258

Project Name: **Ames IP Campaign** Project Mgr.: **Derek Ingram**

Project Number: **62403053** Cost Code: **024501**

Sampler(s): **L. Hooser / R. Huson**

Laboratory Name: **Tex-lab**

Location: **Collinsville, IA**

Sample Number and (depth)	Date	Time	Matrix					Total Number of Containers
			Soil	Water	Air	Wipes	Other *	
B828 (2.0'-3.0')	4/3	1453	X				5	
B828 - Dup (2.0'-3.0')	4/3	1453	X				5	
B828 (9.0'-10.0')	4/3	1519	X				5	
<del>B828 (12.0'-13.0')</del>								
B828 (12.0'-13.0')	4/3	1541	X				5	
B828 (17.0'-18.0')	4/3	1600	X				5	

Analyses by Method Name and Number

Method Name and Number	Comments (Field PID)	Lab ID #'s
BTEX B260B		
PAH B270SIM		
Metals*		
Cyanide		
EX B27487		
PH 9045C		
	*metals-	08040238-015
	arsenic, chromium,	-016
	lead	-017
	Cyanide - total	-018
	and arsenic	-019

Laboratory Temperature Receipt  
**4.8.1C**

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**  5 Days  6TD  Other

Requested TAT:  Rush  Fax and/or Mail Results to: **Derek Ingram**

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature **Judie Hooser** Date **4-4-08** Time **1730**

**Received by:** Signature **Derek Ingram** Date **4/4/08** Time **1730**





# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

COC Serial No. **B** 08874

08040238

Project Name: Amesbury Campaign Project Mgr.: Derek Ingman  
Project Number: 62403053 Cost Code: 024501  
Sampler(s): L. Hoobier

Laboratory Name: TekLab  
Location: Collinsville IL

Sample Number and (depth)	Date	Time	Matrix					Total Number of Containers
			Soil	Water	Air	Wipes	Other *	
B-830 (2.0'-3.0')	4-3	1159	X					5
B-830 (8'-9')	4-3	1221	X					5
B-830 (28'-30')	4-3	1453	X					6
B-831 (1.0'-3.0')	4-3	1549	X					6
B-831 (9.0'-10.0')	4-3	1619	X					6
B-831 (10.5'-12.0')	4-3	1655	X					5
B-831 (18'-20')	4-3	1717	X					5

Analyses by Method Name and Number		Comments (Field PID)	Lab ID #'s
Method Name	Number		
BTEX 8268	5035		
BTEX 8270 SIMS	9010		
Metals*	9014		
Cyanide	9014		
As	9045C		

Laboratory Temperature upon Receipt  
20.1°C

Metals - arsenic, chromium, lead  
-021  
-022  
-023  
-024  
-025  
-026

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  Other

Fax and/or Mail Results to: Derek Ingman  STD  Other

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Justin Hoobier Date 4-4-08 Time 1730

**Received by:** Signature Derek Ingman Date 4/4/08 Time 1730



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

COC Serial No. **B** 08869

08040238

Project Name: Amorex IP Campaign Project Mgr.: Derek Ingram  
Project Number: 62403053 Cost Code: 024501  
Sampler(s): R. H. Son

Laboratory Name: Texlab  
Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix					Total Number of Containers
			Soil	Water	Air	Wipes	Other *	
B832 (2.0'-3.0')	4-4	0853	X					5
B832 (7.0'-8.0')	4-4	0904	X					5
B832 (20.0'-21.0')	4-4	0940	X					5
B838 (1.0'-2.0')	4-4	1120	X					5
B838 (9.0'-10.0')	4-4	1131	X					5
B838 (15.0'-16.0')	4-4	1210	X					5
B838 (29.0'-30.0')	4-4	1252	X					5
B-820 (8.5'-9.5')	4-4	1341	X					5
B-820 (1.0'-2.0')	4-4	1441	X					5
B-820 (25.0'-26.0')	4-4	1453	X					5

Analyses by Method Name and Number  
PAH 8270SWS  
Metals #  
Cyanide  
FPC D2974-87  
PH 9045C  
BTEX 5035 0260B

Comments (Field PID)	Lab ID #'s
*Metals - arsenic, chromium, lead	08040238-027 -028
Cyanide	-029
<del>Metals</del> - total and amenable	-030 -031
	-032
	-033
	-034
	-035
	-036

Laboratory Temperature upon Receipt  
1.41°C

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**  
 Requested TAT:  Rush  5 Days  10 STD  Other \_\_\_\_\_  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other \_\_\_\_\_  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Shipping:**  
Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:**  
Signature: Charlie Hooper Date: 4-4-08 Time: 1730

**Received by:**  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

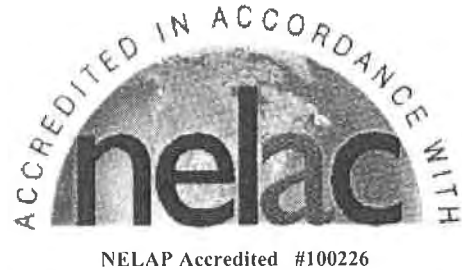
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 16, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08040412

Dear Derek Ingram:

TEKLAB, INC received 36 samples on 4/10/2008 11:35:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**SAMPLE SUMMARY****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08040412**Report Date:** 16-Apr-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040412-001	B834 (1.0-2.0 ft)	4	4/4/2008 2:17:00 PM
08040412-002	B834 (6.0-7.0 ft)	4	4/4/2008 3:21:00 PM
08040412-003	B834 (11.5-12.5 ft)	4	4/4/2008 3:35:00 PM
08040412-004	B834 (15.0-16.0 ft)	4	4/4/2008 4:00:00 PM
08040412-005	B834 (21.0-22.0 ft)	4	4/4/2008 4:21:00 PM
08040412-006	B805 (1-2 ft)	5	4/9/2008 11:18:00 AM
08040412-007	B805 (7-8 ft)	5	4/9/2008 11:45:00 AM
08040412-008	B805 (13.0-14.0 ft)	5	4/9/2008 12:10:00 PM
08040412-009	B807 (2.0-3.0 ft)	4	4/8/2008 2:05:00 PM
08040412-010	B807 (2.0-3.0 ft) DUP	4	4/8/2008 2:05:00 PM
08040412-011	B807 (8.5-9.5 ft)	5	4/8/2008 2:30:00 PM
08040412-012	B807 (13-14 ft)	5	4/8/2008 3:05:00 PM
08040412-013	B804 (1.5-2.5 ft)	5	4/8/2008 3:34:00 PM
08040412-014	B804 (8.5-9.5 ft)	5	4/8/2008 3:47:00 PM
08040412-015	B804 (15-16 ft)	4	4/8/2008 4:07:00 PM
08040412-016	B819 (2-3 ft)	5	4/7/2008 1:02:00 PM
08040412-017	B819 (8.5-9.5 ft)	5	4/7/2008 1:30:00 PM
08040412-018	B819 (28-29 ft)	5	4/7/2008 2:15:00 PM
08040412-019	B817 (2-3 ft)	5	4/7/2008 2:45:00 PM
08040412-020	B817 (8.0-9.0 ft)	5	4/7/2008 3:00:00 PM
08040412-021	B817 (26-27 ft)	5	4/7/2008 4:05:00 PM
08040412-022	B815 (2-3 ft)	5	4/7/2008 4:35:00 PM
08040412-023	B815 (7-8 ft)	5	4/7/2008 4:50:00 PM
08040412-024	B815 (25-26 ft)	5	4/7/2008 5:20:00 PM
08040412-025	B813 (2.0-3.0 ft)	4	4/7/2008 5:41:00 PM
08040412-026	B813 (6-7 ft)	4	4/7/2008 5:57:00 PM
08040412-027	B813 (11-12 ft)	4	4/7/2008 6:10:00 PM
08040412-028	B836 (1.5-2.5 ft)	4	4/8/2008 9:05:00 AM
08040412-029	B836 (9-10 ft)	4	4/8/2008 9:30:00 AM
08040412-030	B836 (25-26 ft)	4	4/8/2008 10:21:00 AM
08040412-031	B801 (2.0-3.0 ft)	4	4/8/2008 10:42:00 AM
08040412-032	B801 (9.0-10.0 ft)	4	4/8/2008 10:57:00 AM
08040412-033	B801 (25.0-26.0 ft)	4	4/8/2008 11:30:00 AM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

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Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040412-034	B806 (2-3 ft)	4	4/8/2008 12:00:00 PM
08040412-035	B806 (8.5-9.5 ft)	4	4/8/2008 12:15:00 PM
08040412-036	B806 (11-12 ft)	5	4/8/2008 12:30:00 PM

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08040412

**Report Date:** 16-Apr-08

**Cooler Receipt Temp:** 5.8 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040412

Client Sample ID: B834 (1.0-2.0 ft)

Lab ID: 08040412-001

Collection Date: 4/4/2008 2:17:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		17.5	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.5	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.005	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.004	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004	S	0.017	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004	S	0.012	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004	S	0.017	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004	S	0.007	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Chrysene	NELAP	0.004	S	0.020	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Fluoranthene	NELAP	0.004	S	0.030	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Fluorene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004	SR	0.006	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Naphthalene	NELAP	0.004		0.008	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Phenanthrene	NELAP	0.004		0.090	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Pyrene	NELAP	0.004	S	0.035	mg/Kg-dry	1	4/14/2008 11:33:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		68.9	%REC	1	4/14/2008 11:33:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		63.7	%REC	1	4/14/2008 11:33:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.9	%REC	1	4/14/2008 11:33:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		ND	µg/Kg-dry	1	4/11/2008 4:51:00 PM	JSA
Ethylbenzene	NELAP	5.0		ND	µg/Kg-dry	1	4/11/2008 4:51:00 PM	JSA
Toluene	NELAP	5.0		ND	µg/Kg-dry	1	4/11/2008 4:51:00 PM	JSA
Xylenes, Total	NELAP	5.0	J	1.1	µg/Kg-dry	1	4/11/2008 4:51:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.3	%REC	1	4/11/2008 4:51:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		90.9	%REC	1	4/11/2008 4:51:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		98.4	%REC	1	4/11/2008 4:51:00 PM	JSA
Surr: Toluene-d8		80.1-122		95.6	%REC	1	4/11/2008 4:51:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

RPD was outside of QC limit due to sample composition.

Matrix spike did not recover within control limits because of sample composition.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-002

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B834 (6.0-7.0 ft)

Collection Date: 4/4/2008 3:21:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.3	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.7	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.478	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.052	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Anthracene	NELAP	0.004		0.287	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.133	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.075	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.073	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.033	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.026	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Chrysene	NELAP	0.004		0.134	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.010	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Fluoranthene	NELAP	0.004		0.388	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Fluorene	NELAP	0.004		0.354	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.028	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Naphthalene	NELAP	0.004		0.005	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Phenanthrene	NELAP	0.004		0.365	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Pyrene	NELAP	0.004		0.498	mg/Kg-dry	1	4/11/2008 9:43:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		68.9	%REC	1	4/11/2008 9:43:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		73.5	%REC	1	4/11/2008 9:43:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		80.0	%REC	1	4/11/2008 9:43:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	25.6		ND	µg/Kg-dry	12.5	4/12/2008 9:24:00 AM	JSA
Ethylbenzene	NELAP	128		ND	µg/Kg-dry	12.5	4/12/2008 9:24:00 AM	JSA
Toluene	NELAP	128		ND	µg/Kg-dry	12.5	4/12/2008 9:24:00 AM	JSA
Xylenes, Total	NELAP	128		ND	µg/Kg-dry	12.5	4/12/2008 9:24:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	134.0	%REC	12.5	4/12/2008 9:24:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		113.0	%REC	12.5	4/12/2008 9:24:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130	S	167.9	%REC	12.5	4/12/2008 9:24:00 AM	JSA
Surr: Toluene-d8		80.1-122		117.6	%REC	12.5	4/12/2008 9:24:00 AM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

Elevated reporting limit due to high levels of target and/or non-target analytes.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-003

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B834 (11.5-12.5 ft)

Collection Date: 4/4/2008 3:35:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.8	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.2	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8015B, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID</b>								
Diesel	NELAP	63.0	SR#	387	mg/Kg-dry	10	4/11/2008 2:04:00 PM	DMH
Kerosene	NELAP	63.0		ND	mg/Kg-dry	10	4/11/2008 2:04:00 PM	DMH
Mineral Spirits	NELAP	63.0		ND	mg/Kg-dry	10	4/11/2008 2:04:00 PM	DMH
Motor Oil	NELAP	63.0	#	121	mg/Kg-dry	10	4/11/2008 2:04:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	142.4	%REC	10	4/11/2008 2:04:00 PM	DMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.041		7.62	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Acenaphthylene	NELAP	0.041		4.79	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Anthracene	NELAP	0.041		7.86	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Benzo(a)anthracene	NELAP	0.041		6.12	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Benzo(a)pyrene	NELAP	0.041		6.04	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.041		4.77	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.041		2.67	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.041		1.60	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Chrysene	NELAP	0.041		5.63	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.041		0.709	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Fluoranthene	NELAP	0.041		12.0	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Fluorene	NELAP	0.041		7.07	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.041		2.05	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Naphthalene	NELAP	0.041		10.6	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Phenanthrene	NELAP	0.412		28.6	mg/Kg-dry	100	4/14/2008 10:22:00 AM	TDN
Pyrene	NELAP	0.041		15.4	mg/Kg-dry	10	4/11/2008 11:26:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		55.9	%REC	10	4/11/2008 11:26:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		53.9	%REC	10	4/11/2008 11:26:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.9	%REC	10	4/11/2008 11:26:00 PM	TDN
<b>SW-846 5035, 8260B, GASOLINE RANGE ORGANICS (OA-1) BY GC/MS</b>								
Benzene	NELAP	1.4		2.0	µg/Kg-dry	1	4/11/2008 9:44:00 AM	JSA
Ethylbenzene	NELAP	7.1	J	2.5	µg/Kg-dry	1	4/11/2008 9:44:00 AM	JSA
Gasoline Range Organics		1420		14900	µg/Kg-dry	1	4/11/2008 9:44:00 AM	JSA
Methyl tert-butyl ether	NELAP	2.8		ND	µg/Kg-dry	1	4/11/2008 9:44:00 AM	JSA
Toluene	NELAP	7.1	J	5.1	µg/Kg-dry	1	4/11/2008 9:44:00 AM	JSA
Xylenes, Total	NELAP	7.1		7.4	µg/Kg-dry	1	4/11/2008 9:44:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		96.7	%REC	1	4/11/2008 9:44:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.3	%REC	1	4/11/2008 9:44:00 AM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040412  
**Lab ID:** 08040412-003  
**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B834 (11.5-12.5 ft)  
**Collection Date:** 4/4/2008 3:35:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5035, 8260B, GASOLINE RANGE ORGANICS (OA-1) BY GC/MS</b>								
Surr: Dibromofluoromethane		66.6-130		100.1	%REC	1	4/11/2008 9:44:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.5	%REC	1	4/11/2008 9:44:00 AM	JSA

### Sample Narrative

SW-846 3550B, 8015B, Total Petroleum Hydrocarbons (OA-2) by GC/FID

- Surrogate recovery was outside QC limits due to matrix interference.
- RPD was outside of QC limit due to sample composition.
- Matrix spike did not recover within control limits because of sample composition.
- Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-004

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B834 (15.0-16.0 ft)

Collection Date: 4/4/2008 4:00:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.8	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.2	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.255	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Acenaphthylene	NELAP	0.004		1.64	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Anthracene	NELAP	0.004		0.677	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.480	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.486	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.381	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.223	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.132	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Chrysene	NELAP	0.004		0.435	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.057	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Fluoranthene	NELAP	0.004		0.943	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Fluorene	NELAP	0.004		1.03	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.166	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Naphthalene	NELAP	0.098		9.56	mg/Kg-dry	25	4/14/2008 10:57:00 AM	TDN
Phenanthrene	NELAP	0.098		2.90	mg/Kg-dry	25	4/14/2008 10:57:00 AM	TDN
Pyrene	NELAP	0.004		1.32	mg/Kg-dry	1	4/12/2008 12:01:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		55.3	%REC	1	4/12/2008 12:01:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	1	4/12/2008 12:01:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		72.1	%REC	1	4/12/2008 12:01:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	89.9		2030	µg/Kg-dry	50	4/12/2008 9:54:00 AM	JSA
Ethylbenzene	NELAP	449		1070	µg/Kg-dry	50	4/12/2008 9:54:00 AM	JSA
Toluene	NELAP	449		4460	µg/Kg-dry	50	4/12/2008 9:54:00 AM	JSA
Xylenes, Total	NELAP	449		7590	µg/Kg-dry	50	4/12/2008 9:54:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		91.7	%REC	50	4/12/2008 9:54:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		105.2	%REC	50	4/12/2008 9:54:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		95.5	%REC	50	4/12/2008 9:54:00 AM	JSA
Surr: Toluene-d8		80.1-122		100.4	%REC	50	4/12/2008 9:54:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental  
WorkOrder: 08040412  
Lab ID: 08040412-005  
Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ  
Client Sample ID: B834 (21.0-22.0 ft)  
Collection Date: 4/4/2008 4:21:00 PM  
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		9.9	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		90.1	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Anthracene	NELAP	0.004	J	0.003	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004	J	0.003	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Chrysene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Naphthalene	NELAP	0.004		0.018	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Phenanthrene	NELAP	0.004		0.014	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Pyrene	NELAP	0.004		0.010	mg/Kg-dry	1	4/11/2008 10:18:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		38.1	%REC	1	4/11/2008 10:18:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		41.7	%REC	1	4/11/2008 10:18:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		73.9	%REC	1	4/11/2008 10:18:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	26.6		ND	µg/Kg-dry	12.5	4/12/2008 10:25:00 AM	JSA
Ethylbenzene	NELAP	133		ND	µg/Kg-dry	12.5	4/12/2008 10:25:00 AM	JSA
Toluene	NELAP	133		ND	µg/Kg-dry	12.5	4/12/2008 10:25:00 AM	JSA
Xylenes, Total	NELAP	133		ND	µg/Kg-dry	12.5	4/12/2008 10:25:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		121.8	%REC	12.5	4/12/2008 10:25:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		113.4	%REC	12.5	4/12/2008 10:25:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130	S	177.9	%REC	12.5	4/12/2008 10:25:00 AM	JSA
Surr: Toluene-d8		80.1-122		101.4	%REC	12.5	4/12/2008 10:25:00 AM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-006

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B805 (1-2 ft)

Collection Date: 4/9/2008 11:18:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.7	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.3	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.45		23.2	mg/Kg-dry	1	4/15/2008 7:56:25 PM	LAL
Chromium	NELAP	0.98		22.1	mg/Kg-dry	1	4/15/2008 7:56:25 PM	LAL
Lead	NELAP	3.92		233	mg/Kg-dry	1	4/15/2008 7:56:25 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.009	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.005	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Chrysene	NELAP	0.004		0.005	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Fluoranthene	NELAP	0.004		0.009	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Phenanthrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Pyrene	NELAP	0.004		0.009	mg/Kg-dry	1	4/11/2008 10:54:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		45.5	%REC	1	4/11/2008 10:54:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		52.3	%REC	1	4/11/2008 10:54:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		76.6	%REC	1	4/11/2008 10:54:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		ND	µg/Kg-dry	1	4/11/2008 5:22:00 PM	JSA
Ethylbenzene	NELAP	5.8		ND	µg/Kg-dry	1	4/11/2008 5:22:00 PM	JSA
Toluene	NELAP	5.8		ND	µg/Kg-dry	1	4/11/2008 5:22:00 PM	JSA
Xylenes, Total	NELAP	5.8		ND	µg/Kg-dry	1	4/11/2008 5:22:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.2	%REC	1	4/11/2008 5:22:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.3	%REC	1	4/11/2008 5:22:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		96.9	%REC	1	4/11/2008 5:22:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.7	%REC	1	4/11/2008 5:22:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.60	J	0.36	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08040412**Lab ID:** 08040412-006**Report Date:** 16-Apr-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B805 (1-2 ft)**Collection Date:** 4/9/2008 11:18:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.62		Interference	mg/Kg-dry	1	4/15/2008	AET

**Sample Narrative**

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-007

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B805 (7-8 ft)

Collection Date: 4/9/2008 11:45:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		15.4	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		84.6	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		7.08	mg/Kg-dry	1	4/15/2008 8:03:10 PM	LAL
Chromium	NELAP	0.96		13.6	mg/Kg-dry	1	4/15/2008 8:03:10 PM	LAL
Lead	NELAP	3.85		14.5	mg/Kg-dry	1	4/15/2008 8:03:10 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:29:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		36.3	%REC	1	4/11/2008 11:29:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		39.1	%REC	1	4/11/2008 11:29:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		77.8	%REC	1	4/11/2008 11:29:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		3.3	µg/Kg-dry	1	4/11/2008 5:52:00 PM	JSA
Ethylbenzene	NELAP	5.1	J	2.2	µg/Kg-dry	1	4/11/2008 5:52:00 PM	JSA
Toluene	NELAP	5.1		6.5	µg/Kg-dry	1	4/11/2008 5:52:00 PM	JSA
Xylenes, Total	NELAP	5.1	J	4.2	µg/Kg-dry	1	4/11/2008 5:52:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		83.2	%REC	1	4/11/2008 5:52:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		105.0	%REC	1	4/11/2008 5:52:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		90.0	%REC	1	4/11/2008 5:52:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.0	%REC	1	4/11/2008 5:52:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.56		< 0.56	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-007

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B805 (7-8 ft)

**Collection Date:** 4/9/2008 11:45:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.56		Interference	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-008

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B805 (13.0-14.0 ft)

Collection Date: 4/9/2008 12:10:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.9	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.1	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		8.25	mg/Kg-dry	1	4/15/2008 8:09:56 PM	LAL
Chromium	NELAP	1.00		16.2	mg/Kg-dry	1	4/15/2008 8:09:56 PM	LAL
Lead	NELAP	4.00		11.6	mg/Kg-dry	1	4/15/2008 8:09:56 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:05:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		42.9	%REC	1	4/11/2008 12:05:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		48.7	%REC	1	4/11/2008 12:05:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		79.8	%REC	1	4/11/2008 12:05:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.5	µg/Kg-dry	1	4/11/2008 6:22:00 PM	JSA
Ethylbenzene	NELAP	4.6	J	1.7	µg/Kg-dry	1	4/11/2008 6:22:00 PM	JSA
Toluene	NELAP	4.6		6.0	µg/Kg-dry	1	4/11/2008 6:22:00 PM	JSA
Xylenes, Total	NELAP	4.6	J	3.9	µg/Kg-dry	1	4/11/2008 6:22:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		65.1	%REC	1	4/11/2008 6:22:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		105.0	%REC	1	4/11/2008 6:22:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		68.5	%REC	1	4/11/2008 6:22:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.8	%REC	1	4/11/2008 6:22:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.57		< 0.57	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040412

Client Sample ID: B805 (13.0-14.0 ft)

Lab ID: 08040412-008

Collection Date: 4/9/2008 12:10:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.57		< 0.57	mg/Kg-dry	1	4/15/2008	AET

Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-009

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B807 (2.0-3.0 ft)

Collection Date: 4/8/2008 2:05:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.7	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.3	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.022		ND	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Acenaphthylene	NELAP	0.022		0.066	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Anthracene	NELAP	0.022		0.081	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Benzo(a)anthracene	NELAP	0.022		0.316	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Benzo(a)pyrene	NELAP	0.022		0.372	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.022		0.478	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.022		0.242	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.022		0.165	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Chrysene	NELAP	0.022		0.361	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.022		0.063	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Fluoranthene	NELAP	0.022		0.676	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Fluorene	NELAP	0.022		0.030	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.022		0.215	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Naphthalene	NELAP	0.022		0.024	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Phenanthrene	NELAP	0.022		0.459	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Pyrene	NELAP	0.022		0.625	mg/Kg-dry	5	4/12/2008 12:37:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		52.9	%REC	5	4/12/2008 12:37:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		53.9	%REC	5	4/12/2008 12:37:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	5	4/12/2008 12:37:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		2.4	µg/Kg-dry	1	4/11/2008 6:53:00 PM	JSA
Ethylbenzene	NELAP	5.9	J	1.8	µg/Kg-dry	1	4/11/2008 6:53:00 PM	JSA
Toluene	NELAP	5.9	J	1.3	µg/Kg-dry	1	4/11/2008 6:53:00 PM	JSA
Xylenes, Total	NELAP	5.9	J	1.5	µg/Kg-dry	1	4/11/2008 6:53:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		115.8	%REC	1	4/11/2008 6:53:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117	S	66.3	%REC	1	4/11/2008 6:53:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		111.2	%REC	1	4/11/2008 6:53:00 PM	JSA
Surr: Toluene-d8		80.1-122		87.6	%REC	1	4/11/2008 6:53:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-010

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B807 (2.0-3.0 ft) DUP

Collection Date: 4/8/2008 2:05:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		17.4	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.6	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.008		ND	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Acenaphthylene	NELAP	0.008		0.012	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Anthracene	NELAP	0.008		ND	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Benzo(a)anthracene	NELAP	0.008		0.055	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Benzo(a)pyrene	NELAP	0.008		0.061	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.008		0.082	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.008		0.037	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.008		0.031	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Chrysene	NELAP	0.008		0.057	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.008		0.014	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Fluoranthene	NELAP	0.008		0.084	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Fluorene	NELAP	0.008		ND	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.008		0.035	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Naphthalene	NELAP	0.008	J	0.008	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Phenanthrene	NELAP	0.008		0.034	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Pyrene	NELAP	0.008		0.078	mg/Kg-dry	2	4/12/2008 1:12:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		56.7	%REC	2	4/12/2008 1:12:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		58.3	%REC	2	4/12/2008 1:12:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.5	%REC	2	4/12/2008 1:12:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		1.2	µg/Kg-dry	1	4/11/2008 7:23:00 PM	JSA
Ethylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	4/11/2008 7:23:00 PM	JSA
Toluene	NELAP	5.9		ND	µg/Kg-dry	1	4/11/2008 7:23:00 PM	JSA
Xylenes, Total	NELAP	5.9		ND	µg/Kg-dry	1	4/11/2008 7:23:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		100.1	%REC	1	4/11/2008 7:23:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		79.1	%REC	1	4/11/2008 7:23:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		96.2	%REC	1	4/11/2008 7:23:00 PM	JSA
Surr: Toluene-d8		80.1-122		96.3	%REC	1	4/11/2008 7:23:00 PM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-011

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B807 (8.5-9.5 ft)

Collection Date: 4/8/2008 2:30:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		15.0	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		85.0	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		5.83	mg/Kg-dry	1	4/15/2008 8:42:46 PM	LAL
Chromium	NELAP	0.96		18.2	mg/Kg-dry	1	4/15/2008 8:42:46 PM	LAL
Lead	NELAP	3.85		14.2	mg/Kg-dry	1	4/15/2008 8:42:46 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:41:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		33.9	%REC	1	4/11/2008 12:41:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		47.5	%REC	1	4/11/2008 12:41:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		78.0	%REC	1	4/11/2008 12:41:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.2	µg/Kg-dry	1	4/11/2008 7:53:00 PM	JSA
Ethylbenzene	NELAP	4.3	J	1.7	µg/Kg-dry	1	4/11/2008 7:53:00 PM	JSA
Toluene	NELAP	4.3		5.0	µg/Kg-dry	1	4/11/2008 7:53:00 PM	JSA
Xylenes, Total	NELAP	4.3	J	3.6	µg/Kg-dry	1	4/11/2008 7:53:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		85.3	%REC	1	4/11/2008 7:53:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		101.8	%REC	1	4/11/2008 7:53:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		90.8	%REC	1	4/11/2008 7:53:00 PM	JSA
Surr: Toluene-d8		80.1-122		101.3	%REC	1	4/11/2008 7:53:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.57		< 0.57	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-011

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B807 (8.5-9.5 ft)

**Collection Date:** 4/8/2008 2:30:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.57		< 0.57	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-012

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B807 (13-14 ft)

Collection Date: 4/8/2008 3:05:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.9	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.1	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.31		6.87	mg/Kg-dry	1	4/15/2008 8:49:33 PM	LAL
Chromium	NELAP	0.93		16.3	mg/Kg-dry	1	4/15/2008 8:49:33 PM	LAL
Lead	NELAP	3.70		12.1	mg/Kg-dry	1	4/15/2008 8:49:33 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:15:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		21.4	%REC	1	4/11/2008 1:15:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		33.9	%REC	1	4/11/2008 1:15:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		73.9	%REC	1	4/11/2008 1:15:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		3.0	µg/Kg-dry	1	4/11/2008 8:23:00 PM	JSA
Ethylbenzene	NELAP	4.4	J	2.1	µg/Kg-dry	1	4/11/2008 8:23:00 PM	JSA
Toluene	NELAP	4.4		7.1	µg/Kg-dry	1	4/11/2008 8:23:00 PM	JSA
Xylenes, Total	NELAP	4.4	J	4.1	µg/Kg-dry	1	4/11/2008 8:23:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		66.0	%REC	1	4/11/2008 8:23:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		97.4	%REC	1	4/11/2008 8:23:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		71.1	%REC	1	4/11/2008 8:23:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.4	%REC	1	4/11/2008 8:23:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.57		< 0.57	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08040412**Lab ID:** 08040412-012**Report Date:** 16-Apr-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B807 (13-14 ft)**Collection Date:** 4/8/2008 3:05:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.57		< 0.57	mg/Kg-dry	1	4/15/2008	AET
<u>SW-846 9045C</u> pH (1:1)	NELAP	1.00		8.13		1	4/14/2008 1:10:00 PM	KNL

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-013

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B804 (1.5-2.5 ft)

Collection Date: 4/8/2008 3:34:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		23.8	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		76.2	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		4.34	mg/Kg-dry	1	4/15/2008 8:56:18 PM	LAL
Chromium	NELAP	0.96		24.0	mg/Kg-dry	1	4/15/2008 8:56:18 PM	LAL
Lead	NELAP	3.85		111	mg/Kg-dry	1	4/15/2008 8:56:18 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.009	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.033	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.040	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.056	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.025	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.020	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Chrysene	NELAP	0.004		0.038	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Fluoranthene	NELAP	0.004		0.059	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.024	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Naphthalene	NELAP	0.004		0.007	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Phenanthrene	NELAP	0.004		0.025	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Pyrene	NELAP	0.004		0.055	mg/Kg-dry	1	4/12/2008 1:47:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		33.7	%REC	1	4/12/2008 1:47:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		45.3	%REC	1	4/12/2008 1:47:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	1	4/12/2008 1:47:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	4/11/2008 8:53:00 PM	JSA
Ethylbenzene	NELAP	5.6		ND	µg/Kg-dry	1	4/11/2008 8:53:00 PM	JSA
Toluene	NELAP	5.6		ND	µg/Kg-dry	1	4/11/2008 8:53:00 PM	JSA
Xylenes, Total	NELAP	5.6		ND	µg/Kg-dry	1	4/11/2008 8:53:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		101.5	%REC	1	4/11/2008 8:53:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		95.3	%REC	1	4/11/2008 8:53:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.6	%REC	1	4/11/2008 8:53:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.0	%REC	1	4/11/2008 8:53:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.65		< 0.65	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-013

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B804 (1.5-2.5 ft)

**Collection Date:** 4/8/2008 3:34:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.65		Interference	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040412

Client Sample ID: B804 (8.5-9.5 ft)

Lab ID: 08040412-014

Collection Date: 4/8/2008 3:47:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		23.6	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		76.4	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.27		5.27	mg/Kg-dry	1	4/15/2008 9:03:03 PM	LAL
Chromium	NELAP	0.91		19.1	mg/Kg-dry	1	4/15/2008 9:03:03 PM	LAL
Lead	NELAP	3.64		14.7	mg/Kg-dry	1	4/15/2008 9:03:03 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 3:36:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		22.8	%REC	1	4/11/2008 3:36:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		29.3	%REC	1	4/11/2008 3:36:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		75.6	%REC	1	4/11/2008 3:36:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.5		4.0	µg/Kg-dry	1	4/11/2008 9:23:00 PM	JSA
Ethylbenzene	NELAP	7.4	J	3.6	µg/Kg-dry	1	4/11/2008 9:23:00 PM	JSA
Toluene	NELAP	7.4		10	µg/Kg-dry	1	4/11/2008 9:23:00 PM	JSA
Xylenes, Total	NELAP	7.4		10.9	µg/Kg-dry	1	4/11/2008 9:23:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		98.1	%REC	1	4/11/2008 9:23:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		92.2	%REC	1	4/11/2008 9:23:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.8	%REC	1	4/11/2008 9:23:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.2	%REC	1	4/11/2008 9:23:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.63		< 0.63	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-014

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B804 (8.5-9.5 ft)

**Collection Date:** 4/8/2008 3:47:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.64		< 0.64	mg/Kg-dry	1	4/15/2008	AET

Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040412

Client Sample ID: B804 (15-16 ft)

Lab ID: 08040412-015

Collection Date: 4/8/2008 4:07:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.0	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.0	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:11:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		35.5	%REC	1	4/11/2008 4:11:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		38.7	%REC	1	4/11/2008 4:11:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		75.8	%REC	1	4/11/2008 4:11:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.7		ND	µg/Kg-dry	1	4/11/2008 9:53:00 PM	JSA
Ethylbenzene	NELAP	3.6		ND	µg/Kg-dry	1	4/11/2008 9:53:00 PM	JSA
Toluene	NELAP	3.6		ND	µg/Kg-dry	1	4/11/2008 9:53:00 PM	JSA
Xylenes, Total	NELAP	3.6		ND	µg/Kg-dry	1	4/11/2008 9:53:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		88.5	%REC	1	4/11/2008 9:53:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		90.5	%REC	1	4/11/2008 9:53:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		96.0	%REC	1	4/11/2008 9:53:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.4	%REC	1	4/11/2008 9:53:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040412

Client Sample ID: B819 (2-3 ft)

Lab ID: 08040412-016

Collection Date: 4/7/2008 1:02:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		18.0	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.0	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		6.16	mg/Kg-dry	1	4/15/2008 9:09:48 PM	LAL
Chromium	NELAP	0.96		22.6	mg/Kg-dry	1	4/15/2008 9:09:48 PM	LAL
Lead	NELAP	3.85		443	mg/Kg-dry	1	4/15/2008 9:09:48 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.008		ND	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Acenaphthylene	NELAP	0.008		0.015	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Anthracene	NELAP	0.008		0.009	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Benzo(a)anthracene	NELAP	0.008		0.069	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Benzo(a)pyrene	NELAP	0.008		0.081	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.008		0.103	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.008		0.058	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.008		0.039	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Chrysene	NELAP	0.008		0.076	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.008		0.015	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Fluoranthene	NELAP	0.008		0.106	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Fluorene	NELAP	0.008		ND	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.008		0.051	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Naphthalene	NELAP	0.008	J	0.008	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Phenanthrene	NELAP	0.008		0.042	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Pyrene	NELAP	0.008		0.106	mg/Kg-dry	2	4/14/2008 6:51:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		70.3	%REC	2	4/14/2008 6:51:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		64.3	%REC	2	4/14/2008 6:51:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.5	%REC	2	4/14/2008 6:51:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	4/11/2008 10:24:00 PM	JSA
Ethylbenzene	NELAP	5.6		ND	µg/Kg-dry	1	4/11/2008 10:24:00 PM	JSA
Toluene	NELAP	5.6		ND	µg/Kg-dry	1	4/11/2008 10:24:00 PM	JSA
Xylenes, Total	NELAP	5.6		ND	µg/Kg-dry	1	4/11/2008 10:24:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		101.3	%REC	1	4/11/2008 10:24:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.6	%REC	1	4/11/2008 10:24:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		101.2	%REC	1	4/11/2008 10:24:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.5	%REC	1	4/11/2008 10:24:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.60		18.1	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08040412**Lab ID:** 08040412-016**Report Date:** 16-Apr-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B819 (2-3 ft)**Collection Date:** 4/7/2008 1:02:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.58		Interference	mg/Kg-dry	1	4/15/2008	AET

**Sample Narrative**

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-017

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B819 (8.5-9.5 ft)

Collection Date: 4/7/2008 1:30:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.1	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.9	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.27		3.95	mg/Kg-dry	1	4/15/2008 9:16:33 PM	LAL
Chromium	NELAP	0.91		20.9	mg/Kg-dry	1	4/15/2008 9:16:33 PM	LAL
Lead	NELAP	3.64		16.6	mg/Kg-dry	1	4/15/2008 9:16:33 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:46:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		33.7	%REC	1	4/11/2008 4:46:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		39.1	%REC	1	4/11/2008 4:46:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		77.2	%REC	1	4/11/2008 4:46:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		ND	µg/Kg-dry	1	4/11/2008 10:54:00 PM	JSA
Ethylbenzene	NELAP	4.8		ND	µg/Kg-dry	1	4/11/2008 10:54:00 PM	JSA
Toluene	NELAP	4.8		ND	µg/Kg-dry	1	4/11/2008 10:54:00 PM	JSA
Xylenes, Total	NELAP	4.8		ND	µg/Kg-dry	1	4/11/2008 10:54:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		97.0	%REC	1	4/11/2008 10:54:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		95.2	%REC	1	4/11/2008 10:54:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.6	%REC	1	4/11/2008 10:54:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.8	%REC	1	4/11/2008 10:54:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.60	J	0.39	mg/Kg-dry	1	4/15/2008	AET



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-017

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B819 (8.5-9.5 ft)

**Collection Date:** 4/7/2008 1:30:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.61	J	0.39	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-018

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B819 (28-29 ft)

Collection Date: 4/7/2008 2:15:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.6	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.4	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.27		6.56	mg/Kg-dry	1	4/15/2008 9:23:19 PM	LAL
Chromium	NELAP	0.91		16.7	mg/Kg-dry	1	4/15/2008 9:23:19 PM	LAL
Lead	NELAP	3.64		11.1	mg/Kg-dry	1	4/15/2008 9:23:19 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:21:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		34.9	%REC	1	4/11/2008 5:21:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		35.9	%REC	1	4/11/2008 5:21:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.1	%REC	1	4/11/2008 5:21:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.1	µg/Kg-dry	1	4/11/2008 11:23:00 PM	JSA
Ethylbenzene	NELAP	4.3		ND	µg/Kg-dry	1	4/11/2008 11:23:00 PM	JSA
Toluene	NELAP	4.3	J	1.1	µg/Kg-dry	1	4/11/2008 11:23:00 PM	JSA
Xylenes, Total	NELAP	4.3		ND	µg/Kg-dry	1	4/11/2008 11:23:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		72.5	%REC	1	4/11/2008 11:23:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.3	%REC	1	4/11/2008 11:23:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		77.4	%REC	1	4/11/2008 11:23:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.3	%REC	1	4/11/2008 11:23:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.56		< 0.56	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-018

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B819 (28-29 ft)

**Collection Date:** 4/7/2008 2:15:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.56		< 0.56	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040412

Client Sample ID: B817 (2-3 ft)

Lab ID: 08040412-019

Collection Date: 4/7/2008 2:45:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		2.32	wt%	1	4/10/2008	TWM
Organic Matter		0.10		4.00	wt%	1	4/10/2008	TWM
Percent Moisture		0.1		21.2	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.8	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		4.16	mg/Kg-dry	1	4/15/2008 9:30:05 PM	LAL
Chromium	NELAP	0.96		20.2	mg/Kg-dry	1	4/15/2008 9:30:05 PM	LAL
Lead	NELAP	3.85		30.8	mg/Kg-dry	1	4/15/2008 9:30:05 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.039	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.024	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.021	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.042	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Chrysene	NELAP	0.004		0.004	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.008	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.030	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Pyrene	NELAP	0.004		0.014	mg/Kg-dry	1	4/12/2008 2:57:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		33.1	%REC	1	4/12/2008 2:57:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		43.1	%REC	1	4/12/2008 2:57:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		72.3	%REC	1	4/12/2008 2:57:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	4/11/2008 11:53:00 PM	JSA
Ethylbenzene	NELAP	5.7		ND	µg/Kg-dry	1	4/11/2008 11:53:00 PM	JSA
Toluene	NELAP	5.7		ND	µg/Kg-dry	1	4/11/2008 11:53:00 PM	JSA
Xylenes, Total	NELAP	5.7		ND	µg/Kg-dry	1	4/11/2008 11:53:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		100	%REC	1	4/11/2008 11:53:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		95.9	%REC	1	4/11/2008 11:53:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.7	%REC	1	4/11/2008 11:53:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.9	%REC	1	4/11/2008 11:53:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-019

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B817 (2-3 ft)

**Collection Date:** 4/7/2008 2:45:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9010B, 9014</u> Cyanide	NELAP	0.63		1.34	mg/Kg-dry	1	4/15/2008	AET
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.63		Interference	mg/Kg-dry	1	4/15/2008	AET
<u>SW-846 9045C</u> pH (1:1)	NELAP	1.00		7.44		1	4/14/2008 1:16:00 PM	KNL

**Sample Narrative**

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-020

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B817 (8.0-9.0 ft)

Collection Date: 4/7/2008 3:00:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		0.56	wt%	1	4/10/2008	TWM
Organic Matter		0.10		0.97	wt%	1	4/10/2008	TWM
Percent Moisture		0.1		17.4	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.6	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.27		9.03	mg/Kg-dry	1	4/15/2008 9:36:51 PM	LAL
Chromium	NELAP	0.91		18.4	mg/Kg-dry	1	4/15/2008 9:36:51 PM	LAL
Lead	NELAP	3.64		19.4	mg/Kg-dry	1	4/15/2008 9:36:51 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.009	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.016	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.018	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.015	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.010	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Chrysene	NELAP	0.004		0.015	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Fluoranthene	NELAP	0.004		0.026	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.008	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Phenanthrene	NELAP	0.004		0.009	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Pyrene	NELAP	0.004		0.056	mg/Kg-dry	1	4/11/2008 5:56:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		25.5	%REC	1	4/11/2008 5:56:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		31.1	%REC	1	4/11/2008 5:56:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		75.8	%REC	1	4/11/2008 5:56:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.0	µg/Kg-dry	1	4/12/2008 12:24:00 AM	JSA
Ethylbenzene	NELAP	4.6		ND	µg/Kg-dry	1	4/12/2008 12:24:00 AM	JSA
Toluene	NELAP	4.6	J	1.4	µg/Kg-dry	1	4/12/2008 12:24:00 AM	JSA
Xylenes, Total	NELAP	4.6		ND	µg/Kg-dry	1	4/12/2008 12:24:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		100	%REC	1	4/12/2008 12:24:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.1	%REC	1	4/12/2008 12:24:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		100.9	%REC	1	4/12/2008 12:24:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.5	%REC	1	4/12/2008 12:24:00 AM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-020

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B817 (8.0-9.0 ft)

Collection Date: 4/7/2008 3:00:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9010B, 9014</b> Cyanide	NELAP	0.57	J	0.32	mg/Kg-dry	1	4/15/2008	AET
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.59	J	0.31	mg/Kg-dry	1	4/15/2008	AET
<b>SW-846 9045C</b> pH (1:1)	NELAP	1.00		7.86		1	4/14/2008 1:19:00 PM	KNL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040412  
**Lab ID:** 08040412-021  
**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B817 (26-27 ft)  
**Collection Date:** 4/7/2008 4:05:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.1	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.9	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.45		6.65	mg/Kg-dry	1	4/15/2008 9:43:39 PM	LAL
Chromium	NELAP	0.98		13.3	mg/Kg-dry	1	4/15/2008 9:43:39 PM	LAL
Lead	NELAP	3.92		12.1	mg/Kg-dry	1	4/15/2008 9:43:39 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Naphthalene	NELAP	0.004		0.021	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Phenanthrene	NELAP	0.004		0.008	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 9:59:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		56.7	%REC	1	4/11/2008 9:59:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		53.7	%REC	1	4/11/2008 9:59:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	1	4/11/2008 9:59:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	21.2		55.5	µg/Kg-dry	12.5	4/12/2008 10:55:00 AM	JSA
Ethylbenzene	NELAP	106		894	µg/Kg-dry	12.5	4/12/2008 10:55:00 AM	JSA
Toluene	NELAP	106		194	µg/Kg-dry	12.5	4/12/2008 10:55:00 AM	JSA
Xylenes, Total	NELAP	106		1160	µg/Kg-dry	12.5	4/12/2008 10:55:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		120.7	%REC	12.5	4/12/2008 10:55:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		110.4	%REC	12.5	4/12/2008 10:55:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130	S	172.2	%REC	12.5	4/12/2008 10:55:00 AM	JSA
Surr: Toluene-d8		80.1-122		107.5	%REC	12.5	4/12/2008 10:55:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.54		< 0.54	mg/Kg-dry	1	4/15/2008	AET



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040412  
**Lab ID:** 08040412-021  
**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B817 (26-27 ft)  
**Collection Date:** 4/7/2008 4:05:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b> Cyanide, Amenable to Chlorination		0.55		< 0.55	mg/Kg-dry	1	4/15/2008	AET
<b>SW-846 9045C</b> pH (1:1)	NELAP	1.00		8.08		1	4/14/2008 1:23:00 PM	KNL

### Sample Narrative

SW-846 5035. 8260B, Volatile Organic Compounds by GC/MS  
Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-022

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B815 (2-3 ft)

Collection Date: 4/7/2008 4:35:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.3	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.7	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		5.68	mg/Kg-dry	1	4/15/2008 10:03:05 PM	LAL
Chromium	NELAP	0.96		23.7	mg/Kg-dry	1	4/15/2008 10:03:05 PM	LAL
Lead	NELAP	3.85		18.8	mg/Kg-dry	1	4/15/2008 10:03:05 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 11:52:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		69.5	%REC	1	4/11/2008 11:52:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		66.1	%REC	1	4/11/2008 11:52:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		72.3	%REC	1	4/11/2008 11:52:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	4/12/2008 12:54:00 AM	JSA
Ethylbenzene	NELAP	5.5		ND	µg/Kg-dry	1	4/12/2008 12:54:00 AM	JSA
Toluene	NELAP	5.5		ND	µg/Kg-dry	1	4/12/2008 12:54:00 AM	JSA
Xylenes, Total	NELAP	5.5		ND	µg/Kg-dry	1	4/12/2008 12:54:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		99.6	%REC	1	4/12/2008 12:54:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.5	%REC	1	4/12/2008 12:54:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		100.7	%REC	1	4/12/2008 12:54:00 AM	JSA
Surr: Toluene-d8		80.1-122		99.5	%REC	1	4/12/2008 12:54:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.63		< 0.63	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08040412**Lab ID:** 08040412-022**Report Date:** 16-Apr-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B815 (2-3 ft)**Collection Date:** 4/7/2008 4:35:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.63		< 0.63	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental  
WorkOrder: 08040412

Client Project: A831-735002-012901-225/IP Champ  
Client Sample ID: B815 (7-8 ft)

Lab ID: 08040412-023

Collection Date: 4/7/2008 4:50:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.0	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.0	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.36		8.19	mg/Kg-dry	1	4/15/2008 10:09:51 PM	LAL
Chromium	NELAP	0.94		16.8	mg/Kg-dry	1	4/15/2008 10:09:51 PM	LAL
Lead	NELAP	3.77		10.8	mg/Kg-dry	1	4/15/2008 10:09:51 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 12:30:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		59.5	%REC	1	4/11/2008 12:30:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		57.5	%REC	1	4/11/2008 12:30:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.3	%REC	1	4/11/2008 12:30:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.8	µg/Kg-dry	1	4/12/2008 1:24:00 AM	JSA
Ethylbenzene	NELAP	4.3	J	2.3	µg/Kg-dry	1	4/12/2008 1:24:00 AM	JSA
Toluene	NELAP	4.3		6.4	µg/Kg-dry	1	4/12/2008 1:24:00 AM	JSA
Xylenes, Total	NELAP	4.3		4.9	µg/Kg-dry	1	4/12/2008 1:24:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		95.5	%REC	1	4/12/2008 1:24:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		90.2	%REC	1	4/12/2008 1:24:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		98.5	%REC	1	4/12/2008 1:24:00 AM	JSA
Surr: Toluene-d8		80.1-122		99.0	%REC	1	4/12/2008 1:24:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.56		< 0.56	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-023

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B815 (7-8 ft)

**Collection Date:** 4/7/2008 4:50:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.56		< 0.56	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040412

Client Sample ID: B815 (25-26 ft)

Lab ID: 08040412-024

Collection Date: 4/7/2008 5:20:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>ASTM D2974</u></b>								
Percent Moisture		0.1		10.8	%	1	4/10/2008	TWM
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		89.2	%	1	4/10/2008	TWM
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.27		6.35	mg/Kg-dry	1	4/15/2008 10:16:37 PM	LAL
Chromium	NELAP	0.91		15.9	mg/Kg-dry	1	4/15/2008 10:16:37 PM	LAL
Lead	NELAP	3.64		11.3	mg/Kg-dry	1	4/15/2008 10:16:37 PM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Phenanthrene	NELAP	0.004		0.005	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:08:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		52.9	%REC	1	4/11/2008 1:08:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		49.7	%REC	1	4/11/2008 1:08:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		58.5	%REC	1	4/11/2008 1:08:00 PM	TDN
<b><u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	0.9		2.0	µg/Kg-dry	1	4/12/2008 1:54:00 AM	JSA
Ethylbenzene	NELAP	4.3		ND	µg/Kg-dry	1	4/12/2008 1:54:00 AM	JSA
Toluene	NELAP	4.3	J	2.2	µg/Kg-dry	1	4/12/2008 1:54:00 AM	JSA
Xylenes, Total	NELAP	4.3		ND	µg/Kg-dry	1	4/12/2008 1:54:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		76.6	%REC	1	4/12/2008 1:54:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		88.0	%REC	1	4/12/2008 1:54:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		81.7	%REC	1	4/12/2008 1:54:00 AM	JSA
Surr: Toluene-d8		80.1-122		89.3	%REC	1	4/12/2008 1:54:00 AM	JSA
<b><u>SW-846 9010B, 9014</u></b>								
Cyanide	NELAP	0.56		< 0.56	mg/Kg-dry	1	4/15/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040412

**Lab ID:** 08040412-024

**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B815 (25-26 ft)

**Collection Date:** 4/7/2008 5:20:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.56		< 0.56	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040412  
**Lab ID:** 08040412-025  
**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B813 (2.0-3.0 ft)  
**Collection Date:** 4/7/2008 5:41:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		18.5	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.5	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.041		ND	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Acenaphthylene	NELAP	0.041		0.126	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Anthracene	NELAP	0.041		0.071	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Benzo(a)anthracene	NELAP	0.041		0.296	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Benzo(a)pyrene	NELAP	0.041		0.320	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.041		0.472	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.041		0.235	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.041		0.146	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Chrysene	NELAP	0.041		0.393	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.041		0.058	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Fluoranthene	NELAP	0.041		0.702	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Fluorene	NELAP	0.041		ND	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.041		0.196	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Naphthalene	NELAP	0.041		ND	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Phenanthrene	NELAP	0.041		0.497	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Pyrene	NELAP	0.041		0.663	mg/Kg-dry	10	4/14/2008 7:26:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		43.9	%REC	10	4/14/2008 7:26:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		39.9	%REC	10	4/14/2008 7:26:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.9	%REC	10	4/14/2008 7:26:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		ND	µg/Kg-dry	1	4/12/2008 2:24:00 AM	JSA
Ethylbenzene	NELAP	5.8		ND	µg/Kg-dry	1	4/12/2008 2:24:00 AM	JSA
Toluene	NELAP	5.8		ND	µg/Kg-dry	1	4/12/2008 2:24:00 AM	JSA
Xylenes, Total	NELAP	5.8		ND	µg/Kg-dry	1	4/12/2008 2:24:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		103.1	%REC	1	4/12/2008 2:24:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		88.2	%REC	1	4/12/2008 2:24:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		103.0	%REC	1	4/12/2008 2:24:00 AM	JSA
Surr: Toluene-d8		80.1-122		96.5	%REC	1	4/12/2008 2:24:00 AM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-026

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B813 (6-7 ft)

Collection Date: 4/7/2008 5:57:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.4	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.6	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 1:45:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		44.7	%REC	1	4/11/2008 1:45:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		53.7	%REC	1	4/11/2008 1:45:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		68.7	%REC	1	4/11/2008 1:45:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		3.8	µg/Kg-dry	1	4/14/2008 11:33:00 AM	JSA
Ethylbenzene	NELAP	5.2	J	4.2	µg/Kg-dry	1	4/14/2008 11:33:00 AM	JSA
Toluene	NELAP	5.2		11.2	µg/Kg-dry	1	4/14/2008 11:33:00 AM	JSA
Xylenes, Total	NELAP	5.2		11.7	µg/Kg-dry	1	4/14/2008 11:33:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		95.3	%REC	1	4/14/2008 11:33:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.9	%REC	1	4/14/2008 11:33:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		96.9	%REC	1	4/14/2008 11:33:00 AM	JSA
Surr: Toluene-d8		80.1-122		98.3	%REC	1	4/14/2008 11:33:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040412

Client Sample ID: B813 (11-12 ft)

Lab ID: 08040412-027

Collection Date: 4/7/2008 6:10:00 PM

Report Date: 16-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.1	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.9	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 2:23:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		57.3	%REC	1	4/11/2008 2:23:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		52.7	%REC	1	4/11/2008 2:23:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		68.1	%REC	1	4/11/2008 2:23:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.9	µg/Kg-dry	1	4/14/2008 12:03:00 PM	JSA
Ethylbenzene	NELAP	4.6	J	1.9	µg/Kg-dry	1	4/14/2008 12:03:00 PM	JSA
Toluene	NELAP	4.6		5.3	µg/Kg-dry	1	4/14/2008 12:03:00 PM	JSA
Xylenes, Total	NELAP	4.6		5.3	µg/Kg-dry	1	4/14/2008 12:03:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		98.0	%REC	1	4/14/2008 12:03:00 PM	JSA
Surr: 4-Bromofluorobenzene		78 2-117		78.3	%REC	1	4/14/2008 12:03:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		104.8	%REC	1	4/14/2008 12:03:00 PM	JSA
Surr: Toluene-d8		80.1-122		90.0	%REC	1	4/14/2008 12:03:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-031

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B801 (2.0-3.0 ft)

Collection Date: 4/8/2008 10:42:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.2	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		77.8	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.009		ND	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Acenaphthylene	NELAP	0.009		0.073	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Anthracene	NELAP	0.009		0.074	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Benzo(a)anthracene	NELAP	0.009		0.216	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Benzo(a)pyrene	NELAP	0.009		0.206	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.009		0.279	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.009		0.094	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.009		0.103	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Chrysene	NELAP	0.009		0.236	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.009		0.033	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Fluoranthene	NELAP	0.009		0.489	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Fluorene	NELAP	0.009		0.025	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.009		0.101	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Naphthalene	NELAP	0.009		0.019	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Phenanthrene	NELAP	0.009		0.335	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Pyrene	NELAP	0.009		0.396	mg/Kg-dry	2	4/12/2008 4:42:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		64.3	%REC	2	4/12/2008 4:42:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		62.7	%REC	2	4/12/2008 4:42:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.5	%REC	2	4/12/2008 4:42:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		ND	µg/Kg-dry	1	4/14/2008 3:02:00 PM	JSA
Ethylbenzene	NELAP	6.0	J	1.5	µg/Kg-dry	1	4/14/2008 3:02:00 PM	JSA
Toluene	NELAP	6.0	J	2.4	µg/Kg-dry	1	4/14/2008 3:02:00 PM	JSA
Xylenes, Total	NELAP	6.0	J	4.8	µg/Kg-dry	1	4/14/2008 3:02:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		97.1	%REC	1	4/14/2008 3:02:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117	S	75.4	%REC	1	4/14/2008 3:02:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.2	%REC	1	4/14/2008 3:02:00 PM	JSA
Surr: Toluene-d8		80.1-122		93.8	%REC	1	4/14/2008 3:02:00 PM	JSA
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		7.71		1	4/14/2008 1:26:00 PM	KNL

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040412  
**Lab ID:** 08040412-031  
**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B801 (2.0-3.0 ft)  
**Collection Date:** 4/8/2008 10:42:00 AM  
**Matrix:** SOLID

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Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
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Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040412  
**Lab ID:** 08040412-032  
**Report Date:** 16-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B801 (9.0-10.0 ft)  
**Collection Date:** 4/8/2008 10:57:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.8	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.2	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.013	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.022	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:16:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		52.1	%REC	1	4/11/2008 4:16:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		49.1	%REC	1	4/11/2008 4:16:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		61.9	%REC	1	4/11/2008 4:16:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		2.7	µg/Kg-dry	1	4/14/2008 3:33:00 PM	JSA
Ethylbenzene	NELAP	4.2	J	2.3	µg/Kg-dry	1	4/14/2008 3:33:00 PM	JSA
Toluene	NELAP	4.2		6.3	µg/Kg-dry	1	4/14/2008 3:33:00 PM	JSA
Xylenes, Total	NELAP	4.2		6.0	µg/Kg-dry	1	4/14/2008 3:33:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		88.7	%REC	1	4/14/2008 3:33:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		95.9	%REC	1	4/14/2008 3:33:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		92.6	%REC	1	4/14/2008 3:33:00 PM	JSA
Surr: Toluene-d8		80.1-122		101.3	%REC	1	4/14/2008 3:33:00 PM	JSA
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		8.22		1	4/14/2008 1:28:00 PM	KNL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**Client Project:** A831-735002-012901-225/IP Champ

**WorkOrder:** 08040412

**Client Sample ID:** B801 (25.0-26.0 ft)

**Lab ID:** 08040412-033

**Collection Date:** 4/8/2008 11:30:00 AM

**Report Date:** 16-Apr-08

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.3	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.7	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Phenanthrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 4:54:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		57.5	%REC	1	4/11/2008 4:54:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		52.9	%REC	1	4/11/2008 4:54:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.3	%REC	1	4/11/2008 4:54:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	4/14/2008 4:03:00 PM	JSA
Ethylbenzene	NELAP	3.9		ND	µg/Kg-dry	1	4/14/2008 4:03:00 PM	JSA
Toluene	NELAP	3.9	J	0.8	µg/Kg-dry	1	4/14/2008 4:03:00 PM	JSA
Xylenes, Total	NELAP	3.9		ND	µg/Kg-dry	1	4/14/2008 4:03:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		78.7	%REC	1	4/14/2008 4:03:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.6	%REC	1	4/14/2008 4:03:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		81.4	%REC	1	4/14/2008 4:03:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.5	%REC	1	4/14/2008 4:03:00 PM	JSA
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		8.09		1	4/14/2008 1:30:00 PM	KNL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-034

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B806 (2-3 ft)

Collection Date: 4/8/2008 12:00:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.0	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.0	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.004	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Chrysene	NELAP	0.004		0.004	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Pyrene	NELAP	0.004		0.007	mg/Kg-dry	1	4/11/2008 5:32:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		49.7	%REC	1	4/11/2008 5:32:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		55.1	%REC	1	4/11/2008 5:32:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		61.7	%REC	1	4/11/2008 5:32:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		ND	µg/Kg-dry	1	4/14/2008 4:33:00 PM	JSA
Ethylbenzene	NELAP	6.2		ND	µg/Kg-dry	1	4/14/2008 4:33:00 PM	JSA
Toluene	NELAP	6.2	J	2.0	µg/Kg-dry	1	4/14/2008 4:33:00 PM	JSA
Xylenes, Total	NELAP	6.2	J	2.0	µg/Kg-dry	1	4/14/2008 4:33:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		98.1	%REC	1	4/14/2008 4:33:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.8	%REC	1	4/14/2008 4:33:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		98.9	%REC	1	4/14/2008 4:33:00 PM	JSA
Surr: Toluene-d8		80.1-122		96.5	%REC	1	4/14/2008 4:33:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-035

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B806 (8.5-9.5 ft)

Collection Date: 4/8/2008 12:15:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		0.36	wt%	1	4/10/2008	TWM
Organic Matter		0.10		0.63	wt%	1	4/10/2008	TWM
Percent Moisture		0.1		14.5	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		85.5	%	1	4/10/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:10:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		63.7	%REC	1	4/11/2008 6:10:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		59.7	%REC	1	4/11/2008 6:10:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		68.7	%REC	1	4/11/2008 6:10:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	4/14/2008 5:04:00 PM	JSA
Ethylbenzene	NELAP	4.6		ND	µg/Kg-dry	1	4/14/2008 5:04:00 PM	JSA
Toluene	NELAP	4.6	J	1.8	µg/Kg-dry	1	4/14/2008 5:04:00 PM	JSA
Xylenes, Total	NELAP	4.6	J	1.6	µg/Kg-dry	1	4/14/2008 5:04:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		96.0	%REC	1	4/14/2008 5:04:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.2	%REC	1	4/14/2008 5:04:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.6	%REC	1	4/14/2008 5:04:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.5	%REC	1	4/14/2008 5:04:00 PM	JSA

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040412

Lab ID: 08040412-036

Report Date: 16-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B806 (11-12 ft)

Collection Date: 4/8/2008 12:30:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		0.39	wt%	1	4/10/2008	TWM
Organic Matter		0.10		0.67	wt%	1	4/10/2008	TWM
Percent Moisture		0.1		13.5	%	1	4/10/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.5	%	1	4/10/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		6.78	mg/Kg-dry	1	4/15/2008 10:23:22 PM	LAL
Chromium	NELAP	0.96		16.6	mg/Kg-dry	1	4/15/2008 10:23:22 PM	LAL
Lead	NELAP	3.85		11.0	mg/Kg-dry	1	4/15/2008 10:23:22 PM	LAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/11/2008 6:48:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.7	%REC	1	4/11/2008 6:48:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		52.7	%REC	1	4/11/2008 6:48:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.9	%REC	1	4/11/2008 6:48:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		2.3	µg/Kg-dry	1	4/14/2008 5:34:00 PM	JSA
Ethylbenzene	NELAP	4.8	J	1.8	µg/Kg-dry	1	4/14/2008 5:34:00 PM	JSA
Toluene	NELAP	4.8		5.3	µg/Kg-dry	1	4/14/2008 5:34:00 PM	JSA
Xylenes, Total	NELAP	4.8	J	4.6	µg/Kg-dry	1	4/14/2008 5:34:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		96.4	%REC	1	4/14/2008 5:34:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		97.4	%REC	1	4/14/2008 5:34:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		97.6	%REC	1	4/14/2008 5:34:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.8	%REC	1	4/14/2008 5:34:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08040412**Lab ID:** 08040412-036**Report Date:** 16-Apr-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B806 (11-12 ft)**Collection Date:** 4/8/2008 12:30:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9010B, 9014</u> Cyanide	NELAP	0.57		< 0.57	mg/Kg-dry	1	4/15/2008	AET
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.57		< 0.57	mg/Kg-dry	1	4/15/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-001A	B834 (1.0-2.0 ft)	4/4/2008	Solid	ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/14/2008
08040412-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-002A	B834 (6.0-7.0 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-003A	B834 (11.5-12.5 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8015B, Total Petroleum Hydrocarbons (OA-2) by GC/FID	4/11/2008	4/11/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/14/2008
08040412-003D				SW-846 5035, 8260B, Gasoline Range Organics (OA-1) by GC/MS	4/10/2008	4/11/2008
08040412-004A	B834 (15.0-16.0 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/14/2008
08040412-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-005A	B834 (21.0-22.0 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-005A	B834 (21.0-22.0 ft)	4/4/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-006A	B805 (1-2 ft)	4/9/2008		SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
08040412-006B				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-006E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-007A	B805 (7-8 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
08040412-007B				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-007E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-008A	B805 (13.0-14.0 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
08040412-008B				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign 62403053  
**Lab Order:** 08040412  
**Report Date:** 16-Apr-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-008E	B805 (13.0-14.0 ft)	4/9/2008	Solid	SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-009A	B807 (2.0-3.0 ft)	4/8/2008		ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/12/2008
08040412-009D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-010A	B807 (2.0-3.0 ft) DUP			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/12/2008
08040412-010D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-011A	B807 (8.5-9.5 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-011B				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-011E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-012A	B807 (13-14 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-012B				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-012B	B807 (13-14 ft)	4/8/2008	Solid	SW-846 9045C		4/14/2008
08040412-012E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-013A	B804 (1.5-2.5 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/12/2008
08040412-013B				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-013E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-014A	B804 (8.5-9.5 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-014B				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-014E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-015A	B804 (15-16 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-015D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-016A	B819 (2-3 ft)	4/7/2008		SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/12/2008

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-016A	B819 (2-3 ft)	4/7/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/14/2008
08040412-016B				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B. 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-016E				SW-846 5035. 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-017A	B819 (8.5-9.5 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-017B				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-017E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-018A	B819 (28-29 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-018B				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B. 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-018E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-019A	B817 (2-3 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/12/2008

ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-019B	B817 (2-3 ft)	4/7/2008	Solid	ASTM D2974		4/10/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
				SW-846 9045C		4/14/2008
08040412-019E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/11/2008
08040412-020A	B817 (8.0-9.0 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-020B				ASTM D2974		4/10/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
				SW-846 9045C		4/14/2008
08040412-020E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-021A	B817 (26-27 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-021B				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008



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**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-021B	B817 (26-27 ft)	4/7/2008	Solid	SW-846 9045C		4/14/2008
08040412-021E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-022A	B815 (2-3 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
08040412-022B				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-022E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-023A	B815 (7-8 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
08040412-023B				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008
08040412-023E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-024A	B815 (25-26 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
08040412-024B				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B, 9014	4/10/2008	4/15/2008
				SW-846 9014A	4/14/2008	4/15/2008

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-024E	B815 (25-26 ft)	4/7/2008	Solid	SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-025A	B813 (2.0-3.0 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/14/2008
08040412-025D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/11/2008	4/12/2008
08040412-026A	B813 (6-7 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-026D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2008	4/14/2008
08040412-027A	B813 (11-12 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-027D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2008	4/14/2008
08040412-031A	B801 (2.0-3.0 ft)	4/8/2008		ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/12/2008
				SW-846 9045C		4/14/2008
08040412-031D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2008	4/14/2008
08040412-032A	B801 (9.0-10.0 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-032A	B801 (9.0-10.0 ft)	4/8/2008	Solid	SW-846 9045C		4/14/2008
08040412-032D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2008	4/14/2008
08040412-033A	B801 (25.0-26.0 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
				SW-846 9045C		4/14/2008
08040412-033D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2008	4/14/2008
08040412-034A	B806 (2-3 ft)			ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-034D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2008	4/14/2008
08040412-035A	B806 (8.5-9.5 ft)			ASTM D2974		4/10/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-035D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2008	4/14/2008
08040412-036A	B806 (11-12 ft)			SW-846 3050B, 6010B, Metals by ICP	4/13/2008	4/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/10/2008	4/11/2008
08040412-036B				ASTM D2974		4/10/2008
				ASTM D2974		4/10/2008
				Standard Methods 18th Ed. 2540 G		4/10/2008
				SW-846 9010B. 9014	4/10/2008	4/15/2008

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040412

**Report Date:** 16-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040412-036B	B806 (11-12 ft)	4/8/2008	Solid	SW-846 9014A	4/14/2008	4/15/2008
08040412-036E				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2008	4/14/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

	Qualifiers			
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference	
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite	
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range	
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded	
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited	

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign 62403053  
**Lab Order:** 08040412      **Report Date:** 16-Apr-08

**TestCode: I\_ACN\_S\_MT**

Sample ID: <b>MB-R106845</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/14/2008</b>	RunNo: <b>106845</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44058</b>	<b>SOP2092</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1911159</b>
Analyte	Result	SPK value	SPK Ref Val	%REC
Cyanide, Amenable to Chlorination	< 0.01	0.01	0.01	0.01

Sample ID: <b>LCS-R106845</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/14/2008</b>	RunNo: <b>106845</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44058</b>	<b>SOP2092</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1911160</b>
Analyte	Result	SPK value	SPK Ref Val	%REC
Cyanide, Amenable to Chlorination	0.19	0.01	0.01	97.0

		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
		85	115				

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_OM\_D\_M

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign 62403053  
 Lab Order: 08040412      Report Date: 16-Apr-08

Sample ID: <b>08040412-0195DUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date:	RunNo: <b>106824</b>							
Client ID: <b>B817 (2-3 ft)DUP</b>	Batch ID: <b>R106824</b>		Analysis Date: <b>4/10/2008</b>	SeqNo: <b>1910687</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
FOC (0.58 conversion factor)	2.87	0.10						2.319	21.2	25	
Organic Matter	4.94	0.10						3.998	21.2	25	

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TCN\_S\_MT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412      Report Date: 16-Apr-08

Sample ID: MB-R106842	SampType: MBLK	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106842
Client ID: ZZZZZZ	Batch ID: 44046	SW9010	Analysis Date: 4/15/2008	SeqNo: 1911053
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	< 0.01	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		93.4	85	115
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: LCS-R106842	SampType: LCS	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106842
Client ID: ZZZZZZ	Batch ID: 44046	SW9010	Analysis Date: 4/15/2008	SeqNo: 1911054
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.19	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		96.7	85	115
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: LCSD-R106842	SampType: LCSD	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106842
Client ID: ZZZZZZ	Batch ID: 44046	SW9010	Analysis Date: 4/15/2008	SeqNo: 1911055
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.19	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		96.7	85	115
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: 08040412-008BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/10/2008	RunNo: 106842
Client ID: B805 (13.0-14.0 ft)M	Batch ID: 44046	SW9010	Analysis Date: 4/15/2008	SeqNo: 1911059
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	5.73	0.55	5.549	0
		%REC	LowLimit	HighLimit
		103.3	80	120
		%RPD	RPD Ref Val	RPDLimit
				Qual

Sample ID: 08040412-008BMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/10/2008	RunNo: 106842
Client ID: B805 (13.0-14.0 ft)M	Batch ID: 44046	SW9010	Analysis Date: 4/15/2008	SeqNo: 1911060
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	5.52	0.55	5.522	0
		%REC	LowLimit	HighLimit
		99.9	80	120
		%RPD	RPD Ref Val	RPDLimit
				Qual



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: I\_TS\_M\_MT

Lab Order: 08040412      Report Date: 16-Apr-08

Sample ID: LCS-R106686	SampType: LCS	Units: %	Prep Date:	RunNo: 106686							
Client ID: ZZZZZZ	Batch ID: R106686		Analysis Date: 4/10/2008	SeqNo: 1905915							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 106686							
Client ID: ZZZZZZ	Batch ID: R106686		Analysis Date: 4/10/2008	SeqNo: 1905916							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	98.0	90	110				

Sample ID: 08040412-019BDUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106686							
Client ID: B817 (2-3 ft)DUP	Batch ID: R106686		Analysis Date: 4/10/2008	SeqNo: 1905921							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	78.3	0.1						78.75	0.535		15

Sample ID: 08040412-010ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106686							
Client ID: B807 (2.0-3.0 ft) DU	Batch ID: R106686		Analysis Date: 4/10/2008	SeqNo: 1905998							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	81.6	0.1						82.58	1.23		15

Sample ID: 08040412-031ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106686							
Client ID: B801 (2.0-3.0 ft)DUP	Batch ID: R106686		Analysis Date: 4/10/2008	SeqNo: 1906015							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	77.4	0.1						77.83	0.515		15

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: L\_PH\_S\_M

Sample ID: LCS-R106754	SampType: LCS	Units:	Prep Date:	RunNo: 106754
Client ID: ZZZZZZ	Batch ID: R106754		Analysis Date: 4/14/2008	SeqNo: 1908334
Analyte	Result	PQL	SPK value	SPK Ref Val
pH (1:1)	7.01	1.00	7.000	0
			%REC	100.1
			LowLimit	99.1
			HighLimit	100.9
			RPD Ref Val	
			%RPD	
			RPDLimit	
			Qual	

Sample ID: 08040412-012BDUP	SampType: DUP	Units:	Prep Date:	RunNo: 106754
Client ID: B807 (13-14 ft)DUP	Batch ID: R106754		Analysis Date: 4/14/2008	SeqNo: 1908890
Analyte	Result	PQL	SPK value	SPK Ref Val
pH (1:1)	8.15	1.00	7.000	0
			%REC	100.1
			LowLimit	99.1
			HighLimit	100.9
			RPD Ref Val	
			%RPD	0.246
			RPDLimit	
			Qual	10

# ANALYTICAL QC SUMMARY REPORT

TestCode: **M\_SOLIDS\_ICP**

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412      Report Date: 16-Apr-08

Sample ID: <b>MB-44039</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/13/2008</b>	RunNo: <b>106812</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44039</b>	<b>SOP 3032</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1910453</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: <b>LCS-44039</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/13/2008</b>	RunNo: <b>106812</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44039</b>	<b>SOP 3032</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1910454</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.6	4.00	50.00	0	99.2	85	115				

Sample ID: <b>MB-44039</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/13/2008</b>	RunNo: <b>106847</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44039</b>	<b>SOP 3032</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1911298</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: <b>LCS-44039</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/13/2008</b>	RunNo: <b>106847</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44039</b>	<b>SOP 3032</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1911299</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	210	2.50	200.0	0	104.9	85	115				
Chromium	20.5	1.00	20.00	0	102.5	85	115				
Lead	52.9	4.00	50.00	0	105.8	85	115				

Sample ID: <b>08040412-008AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/13/2008</b>	RunNo: <b>106847</b>							
Client ID: <b>B805 (13.0-14.0 ft)M</b>	Batch ID: <b>44039</b>	<b>SOP 3032</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1911304</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	206	2.50	200.0	8.250	98.9	75	125				
Chromium	34.0	1.00	20.00	16.25	88.9	75	125				

# ANALYTICAL QC SUMMARY REPORT

TestCode: **M\_SOLIDS\_ICP**

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412      Report Date: 16-Apr-08

Sample ID: <b>08040412-008AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/13/2008</b>	RunNo: <b>106847</b>							
Client ID: <b>B805 (13.0-14.0 ft)M</b>	Batch ID: <b>44039</b>	<b>SOP 3032</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1911304</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	56.4	4.00	50.00	11.56	89.7	75	125				

Sample ID: <b>08040412-008AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/13/2008</b>	RunNo: <b>106847</b>							
Client ID: <b>B805 (13.0-14.0 ft)M</b>	Batch ID: <b>44039</b>	<b>SOP 3032</b>	Analysis Date: <b>4/15/2008</b>	SeqNo: <b>1911305</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	207	2.50	200.0	8.250	99.2	75	125	206.1	0.291	20	
Chromium	34.4	1.00	20.00	16.25	90.9	75	125	34.02	1.17	20	
Lead	56.7	4.00	50.00	11.56	90.3	75	125	56.39	0.584	20	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: MB-43982	SampType: MBLK	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106666							
Client ID: ZZZZZZ	Batch ID: 43982	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1905573							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.108		0.1670		64.5	17.5	123				
Surr: Nitrobenzene-d5	0.097		0.1670		57.9	35	105				
Surr: p-Terphenyl-d14	0.122		0.1670		73.3	53.6	122				

Sample ID: LCS-43982	SampType: LCS	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106666							
Client ID: ZZZZZZ	Batch ID: 43982	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1905574							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.106	0.003	0.1670	0	63.5	56.3	115				
Acenaphthylene	0.132	0.003	0.1670	0	78.8	60.3	143				
Anthracene	0.103	0.003	0.1670	0	61.9	52.1	109				
Benzo(a)anthracene	0.105	0.003	0.1670	0	63.0	52.8	112				
Benzo(a)pyrene	0.108	0.003	0.1670	0	64.8	40.8	127				
Benzo(b)fluoranthene	0.120	0.003	0.1670	0	71.7	50.1	150				
Benzo(g,h,i)perylene	0.120	0.003	0.1670	0	72.1	52.8	145				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: LCS-43982	SampType: LCS	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106666							
Client ID: ZZZZZZ	Batch ID: 43982	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1905574							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo(k)fluoranthene	0.121	0.003	0.1670	0	72.6	52	153				
Chrysene	0.118	0.003	0.1670	0	70.9	60.8	128				
Dibenzo(a,h)anthracene	0.117	0.003	0.1670	0	70.1	54.9	150				
Fluoranthene	0.111	0.003	0.1670	0	66.4	58.7	125				
Fluorene	0.113	0.003	0.1670	0	67.6	57.8	125				
Indeno(1,2,3-cd)pyrene	0.115	0.003	0.1670	0	68.6	52	147				
Naphthalene	0.096	0.003	0.1670	0	57.5	54.8	113				
Phenanthrene	0.110	0.003	0.1670	0	65.9	60.4	121				
Pyrene	0.116	0.003	0.1670	0	69.4	57.9	129				
Surr: 2-Fluorobiphenyl	0.120		0.1670		71.7	35.3	113				
Surr: Nitrobenzene-d5	0.103		0.1670		61.9	33.9	108				
Surr: p-Terphenyl-d14	0.127		0.1670		75.8	58.4	122				

Sample ID: MB-43988	SampType: MBLK	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106668							
Client ID: ZZZZZZ	Batch ID: 43988	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1905582							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: MB-43988	SampType: MBLK	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106668							
Client ID: ZZZZZZ	Batch ID: 43988	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1905582							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.113		0.1670		67.5	17.5	123				
Surr: Nitrobenzene-d5	0.105		0.1670		63.1	35	105				
Surr: p-Terphenyl-d14	0.125		0.1670		74.9	53.6	122				

Sample ID: LCS-43988	SampType: LCS	Units: mg/Kg	Prep Date: 4/10/2008	RunNo: 106668							
Client ID: ZZZZZZ	Batch ID: 43988	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1905583							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.106	0.003	0.1670	0	63.3	56.3	115				
Acenaphthylene	0.125	0.003	0.1670	0	74.7	60.3	143				
Anthracene	0.107	0.003	0.1670	0	64.0	52.1	109				
Benzo(a)anthracene	0.117	0.003	0.1670	0	70.1	52.8	112				
Benzo(a)pyrene	0.111	0.003	0.1670	0	66.7	40.8	127				
Benzo(b)fluoranthene	0.126	0.003	0.1670	0	75.6	50.1	150				
Benzo(g,h,i)perylene	0.123	0.003	0.1670	0	73.9	52.8	145				
Benzo(k)fluoranthene	0.125	0.003	0.1670	0	74.9	52	153				
Chrysene	0.128	0.003	0.1670	0	76.7	60.8	128				
Dibenzo(a,h)anthracene	0.119	0.003	0.1670	0	71.0	54.9	150				
Fluoranthene	0.119	0.003	0.1670	0	71.2	58.7	125				
Fluorene	0.109	0.003	0.1670	0	65.5	57.8	125				
Indeno(1,2,3-cd)pyrene	0.118	0.003	0.1670	0	70.8	52	147				
Naphthalene	0.100	0.003	0.1670	0	59.7	54.8	113				
Phenanthrene	0.115	0.003	0.1670	0	68.7	60.4	121				
Pyrene	0.122	0.003	0.1670	0	73.3	57.9	129				
Surr: 2-Fluorobiphenyl	0.098		0.1670		58.7	35.3	113				
Surr: Nitrobenzene-d5	0.096		0.1670		57.7	33.9	108				
Surr: p-Terphenyl-d14	0.120		0.1670		71.9	58.4	122				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040412

Report Date: 16-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08040412-021AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/10/2008	RunNo: 106668
Client ID: B817 (26-27 ft)MS	Batch ID: 43988	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1907520

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.125	0.004	0.1844	0	67.6	36	135				
Acenaphthylene	0.141	0.004	0.1844	0	76.4	17.2	167				
Anthracene	0.121	0.004	0.1844	0	65.6	39.3	124				
Benzo(a)anthracene	0.123	0.004	0.1844	0	66.7	10	183				
Benzo(a)pyrene	0.125	0.004	0.1844	0	67.5	10	204				
Benzo(b)fluoranthene	0.127	0.004	0.1844	0	69.0	10.6	178				
Benzo(g,h,i)perylene	0.131	0.004	0.1844	0	70.9	10	168				
Benzo(k)fluoranthene	0.134	0.004	0.1844	0	72.5	27.6	181				
Chrysene	0.138	0.004	0.1844	0	74.6	10	176				
Dibenzo(a,h)anthracene	0.125	0.004	0.1844	0	67.8	12.2	156				
Fluoranthene	0.117	0.004	0.1844	0	63.2	10	227				
Fluorene	0.119	0.004	0.1844	0	64.7	35.2	148				
Indeno(1,2,3-cd)pyrene	0.126	0.004	0.1844	0	68.1	10	164				
Naphthalene	0.124	0.004	0.1844	0.02097	55.7	14.7	128				
Phenanthrene	0.129	0.004	0.1844	0.008358	65.4	32.8	143				
Pyrene	0.127	0.004	0.1844	0	68.8	10	180				
Surr: 2-Fluorobiphenyl	0.127		0.1844		69.1	10	131				
Surr: Nitrobenzene-d5	0.119		0.1844		64.5	10	132				
Surr: p-Terphenyl-d14	0.129		0.1844		70.1	30.6	131				

Sample ID: 08040412-021AMS	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/10/2008	RunNo: 106668
Client ID: B817 (26-27 ft)MS	Batch ID: 43988	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1907521

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.124	0.004	0.1850	0	67.1	36	135	0.1247	0.417	49.7	
Acenaphthylene	0.143	0.004	0.1850	0	77.2	17.2	167	0.1410	1.29	33.3	
Anthracene	0.126	0.004	0.1850	0	67.9	39.3	124	0.1210	3.82	51.1	
Benzo(a)anthracene	0.123	0.004	0.1850	0	66.3	10	183	0.1229	0.186	40.6	
Benzo(a)pyrene	0.130	0.004	0.1850	0	70.4	10	204	0.1245	4.55	56.4	
Benzo(b)fluoranthene	0.135	0.004	0.1850	0	72.8	10.6	178	0.1273	5.70	49.7	
Benzo(g,h,i)perylene	0.136	0.004	0.1850	0	73.6	10	168	0.1308	3.94	36.5	



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08040412-021AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/10/2008	RunNo: 106668							
Client ID: B817 (26-27 ft)MSD	Batch ID: 43988	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1907521							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.136	0.004	0.1850	0	73.6	27.6	181	0.1336	1.91	42.6	
Chrysene	0.137	0.004	0.1850	0	74.3	10	176	0.1376	0.158	45.1	
Dibenzo(a,h)anthracene	0.133	0.004	0.1850	0	71.7	12.2	156	0.1250	5.93	39.9	
Fluoranthene	0.126	0.004	0.1850	0	68.1	10	227	0.1166	7.80	66.2	
Fluorene	0.128	0.004	0.1850	0	69.0	35.2	148	0.1194	6.68	65.6	
Indeno(1,2,3-cd)pyrene	0.132	0.004	0.1850	0	71.2	10	164	0.1256	4.77	36.5	
Naphthalene	0.125	0.004	0.1850	0.02097	56.1	14.7	128	0.1237	0.858	39.6	
Phenanthrene	0.132	0.004	0.1850	0.008358	67.0	32.8	143	0.1289	2.53	35.4	
Pyrene	0.127	0.004	0.1850	0	68.4	10	180	0.1268	0.258	60.1	
Surr: 2-Fluorobiphenyl	0.119		0.1850		64.3	10	131		0	40	
Surr: Nitrobenzene-d5	0.109		0.1850		58.7	10	132		0	40	
Surr: p-Terphenyl-d14	0.129		0.1850		69.5	30.6	131		0	40	

Sample ID: 08040412-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/10/2008	RunNo: 106666							
Client ID: B834 (1.0-2.0 ft)MS	Batch ID: 43982	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1907648							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.128	0.020	0.1974	0.004957	62.4	36	135				
Acenaphthylene	0.207	0.020	0.1974	0.004091	102.9	17.2	167				
Anthracene	0.153	0.020	0.1974	0.006924	73.8	39.3	124				
Benzo(a)anthracene	0.278	0.020	0.1974	0.01688	132.6	10	183				
Benzo(a)pyrene	0.355	0.020	0.1974	0.01180	173.7	10	204				
Benzo(b)fluoranthene	0.450	0.020	0.1974	0.01696	219.7	10.6	178				
Benzo(g,h,i)perylene	0.318	0.020	0.1974	0.007160	157.6	10	168				S
Benzo(k)fluoranthene	0.251	0.020	0.1974	0.004760	124.5	27.6	181				
Chrysene	0.330	0.020	0.1974	0.02010	157.1	10	176				
Dibenzo(a,h)anthracene	0.170	0.020	0.1974	0	85.9	12.2	156				
Fluoranthene	0.364	0.020	0.1974	0.03049	169.2	10	227				
Fluorene	0.134	0.020	0.1974	0.003895	66.1	35.2	148				
Indeno(1,2,3-cd)pyrene	0.286	0.020	0.1974	0.006019	141.7	10	164				
Naphthalene	0.129	0.020	0.1974	0.007868	61.5	14.7	128				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040412      Report Date: 16-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08040412-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/10/2008	RunNo: 106666							
Client ID: B834 (1.0-2.0 ft)MS	Batch ID: 43982	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1907648							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.222	0.020	0.1974	0.09025	66.6	32.8	143				
Pyrene	0.388	0.020	0.1974	0.03525	178.6	10	180				
Surr: 2-Fluorobiphenyl	0.118		0.1974		59.9	10	131				
Surr: Nitrobenzene-d5	0.114		0.1974		57.9	10	132				
Surr: p-Terphenyl-d14	0.142		0.1974		71.9	30.6	131				

Sample ID: 08040412-001AMS	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/10/2008	RunNo: 106666							
Client ID: B834 (1.0-2.0 ft)MS	Batch ID: 43982	SW3550B	Analysis Date: 4/11/2008	SeqNo: 1907649							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.144	0.021	0.2016	0.004957	68.8	36	135	0.1280	11.5	49.7	
Acenaphthylene	0.277	0.021	0.2016	0.004091	135.4	17.2	167	0.2072	28.9	33.3	
Anthracene	0.187	0.021	0.2016	0.006924	89.5	39.3	124	0.1526	20.4	51.1	
Benzo(a)anthracene	0.390	0.021	0.2016	0.01688	185.2	10	183	0.2785	33.4	40.6	S
Benzo(a)pyrene	0.553	0.021	0.2016	0.01180	268.6	10	204	0.3545	43.8	56.4	S
Benzo(b)fluoranthene	0.726	0.021	0.2016	0.01696	351.9	10.6	178	0.4504	46.9	49.7	S
Benzo(g,h,i)perylene	0.453	0.021	0.2016	0.007160	221.0	10	168	0.3183	34.9	36.5	S
Benzo(k)fluoranthene	0.358	0.021	0.2016	0.004760	175.2	27.6	181	0.2505	35.3	42.6	
Chrysene	0.488	0.021	0.2016	0.02010	231.8	10	176	0.3301	38.5	45.1	S
Dibenzo(a,h)anthracene	0.214	0.021	0.2016	0	106.1	12.2	156	0.1696	23.1	39.9	
Fluoranthene	0.495	0.021	0.2016	0.03049	230.3	10	227	0.3644	30.4	66.2	S
Fluorene	0.150	0.021	0.2016	0.003895	72.3	35.2	148	0.1343	10.8	65.6	
Indeno(1,2,3-cd)pyrene	0.417	0.021	0.2016	0.006019	204.0	10	164	0.2856	37.5	36.5	SR
Naphthalene	0.151	0.021	0.2016	0.007868	70.7	14.7	128	0.1292	15.2	39.6	
Phenanthrene	0.315	0.021	0.2016	0.09025	111.5	32.8	143	0.2218	34.8	35.4	
Pyrene	0.516	0.021	0.2016	0.03525	238.5	10	180	0.3878	28.4	60.1	S
Surr: 2-Fluorobiphenyl	0.129		0.2016		63.9	10	131		0	40	
Surr: Nitrobenzene-d5	0.117		0.2016		57.9	10	132		0	40	
Surr: p-Terphenyl-d14	0.139		0.2016		68.9	30.6	131		0	40	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: SV\_OA2\_S

Sample ID: <b>MB-43996</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106708</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43996</b>	<b>SW3550B</b>	Analysis Date: <b>4/11/2008</b>	SeqNo: <b>1906416</b>							
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	0.50		0.6700		74.6	59.5	122				

Sample ID: <b>LCS-43996</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106708</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>43996</b>	<b>SW3550B</b>	Analysis Date: <b>4/11/2008</b>	SeqNo: <b>1906417</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	13.7	5.00	16.70	0	82.2	45.8	131				
Surr: n-Tetracontane	0.54		0.6700		81.0	58	130				

Sample ID: <b>08040412-003AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106708</b>							
Client ID: <b>B834 (11.5-12.5 ft)M</b>	Batch ID: <b>43996</b>	<b>SW3550B</b>	Analysis Date: <b>4/11/2008</b>	SeqNo: <b>1906421</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	1550	62.7	20.95	387.4	5529	20.3	167				S#
Surr: n-Tetracontane	3.29		0.8406		391.1	53.9	153				S

Sample ID: <b>08040412-003AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106708</b>							
Client ID: <b>B834 (11.5-12.5 ft)M</b>	Batch ID: <b>43996</b>	<b>SW3550B</b>	Analysis Date: <b>4/11/2008</b>	SeqNo: <b>1906422</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	249	62.8	20.97	387.4	-661.6	20.3	167	1546	145	34	SR#
Surr: n-Tetracontane	1.05		0.8411		124.3	53.9	153		0	0	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: V\_BTEX\_S

Sample ID: LCS-G080411-1	SampType: LCS	Units: µg/Kg	Prep Date: 4/11/2008	RunNo: 106731							
Client ID: ZZZZZZ	Batch ID: 44041	SW5035	Analysis Date: 4/11/2008	SeqNo: 1907571							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	45.5	2.0	50.00	0	90.9	69.1	121				
Benzene	48.8	1.0	50.00	0	97.7	75	123				
Toluene	48.2	5.0	50.00	0	96.5	77.3	117				
Ethylbenzene	50.0	5.0	50.00	0	99.9	80.8	118				
Xylenes, Total	99.8	5.0	100.0	0	99.8	78.5	121				
Surr: 1,2-Dichloroethane-d4	46.8		50.00		93.6	61	128				
Surr: 4-Bromofluorobenzene	49.3		50.00		98.7	78.2	117				
Surr: Dibromofluoromethane	48.9		50.00		97.8	66.6	130				
Surr: Toluene-d8	49.1		50.00		98.1	80.1	122				

Sample ID: LCSD-G080411-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/11/2008	RunNo: 106731							
Client ID: ZZZZZZ	Batch ID: 44041	SW5035	Analysis Date: 4/11/2008	SeqNo: 1907572							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	45.9	2.0	50.00	0	91.9	69.1	121	45.46	1.05	20	
Benzene	47.4	1.0	50.00	0	94.7	75	123	48.83	3.08	20	
Toluene	47.5	5.0	50.00	0	94.9	77.3	117	48.23	1.61	20	
Ethylbenzene	48.8	5.0	50.00	0	97.6	80.8	118	49.96	2.33	20	
Xylenes, Total	97.1	5.0	100.0	0	97.1	78.5	121	99.80	2.76	20	
Surr: 1,2-Dichloroethane-d4	46.4		50.00		92.7	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.8		50.00		99.6	78.2	117		0	0	
Surr: Dibromofluoromethane	48.0		50.00		96.1	66.6	130		0	0	
Surr: Toluene-d8	48.3		50.00		96.7	80.1	122		0	0	

Sample ID: MBLK-G080411-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/11/2008	RunNo: 106731							
Client ID: ZZZZZZ	Batch ID: 44041	SW5035	Analysis Date: 4/11/2008	SeqNo: 1907573							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	2.0									
Benzene	ND	1.0									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-G080411-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106731</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44041</b>	<b>SW5035</b>	Analysis Date: <b>4/11/2008</b>	SeqNo: <b>1907573</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	44.8		50.00		89.6	61	128				
Surr: 4-Bromofluorobenzene	48.8		50.00		97.6	78.2	117				
Surr: Dibromofluoromethane	47.6		50.00		95.1	66.6	130				
Surr: Toluene-d8	49.0		50.00		97.9	80.1	122				

Sample ID: <b>LCS-G080411-2</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106733</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44043</b>	<b>SW5035</b>	Analysis Date: <b>4/12/2008</b>	SeqNo: <b>1907602</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	45.2	2.0	50.00	0	90.4	69.1	121				
Benzene	48.2	1.0	50.00	0	96.3	75	123				
Toluene	46.7	5.0	50.00	0	93.4	77.3	117				
Ethylbenzene	47.3	5.0	50.00	0	94.6	80.8	118				
Xylenes, Total	92.5	5.0	100.0	0	92.5	78.5	121				
Surr: 1,2-Dichloroethane-d4	47.2		50.00		94.4	61	128				
Surr: 4-Bromofluorobenzene	49.1		50.00		98.2	78.2	117				
Surr: Dibromofluoromethane	50.4		50.00		100.8	66.6	130				
Surr: Toluene-d8	48.8		50.00		97.7	80.1	122				

Sample ID: <b>LCS-D-G080411-2</b>	SampType: <b>LCS-D</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106733</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44043</b>	<b>SW5035</b>	Analysis Date: <b>4/12/2008</b>	SeqNo: <b>1907603</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	46.3	2.0	50.00	0	92.7	69.1	121	45.19	2.49	20	
Benzene	47.8	1.0	50.00	0	95.6	75	123	48.16	0.771	20	
Toluene	45.9	5.0	50.00	0	91.8	77.3	117	46.68	1.64	20	
Ethylbenzene	46.0	5.0	50.00	0	92.0	80.8	118	47.28	2.70	20	

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412      Report Date: 16-Apr-08

Sample ID: <b>LCSD-G080411-2</b>	Sample Type: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106733</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44043</b>	<b>SW5035</b>	Analysis Date: <b>4/12/2008</b>	SeqNo: <b>1907603</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	91.6	5.0	100.0	0	91.6	78.5	121	92.48	0.912	20	
Surr: 1,2-Dichloroethane-d4	47.1		50.00		94.2	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	78.2	117		0	0	
Surr: Dibromofluoromethane	50.5		50.00		101.1	66.6	130		0	0	
Surr: Toluene-d8	48.4		50.00		96.8	80.1	122		0	0	

Sample ID: <b>MBLK-G080411-2</b>	Sample Type: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/11/2008</b>	RunNo: <b>106733</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44043</b>	<b>SW5035</b>	Analysis Date: <b>4/12/2008</b>	SeqNo: <b>1907604</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	2.0									
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	46.5		50.00		93.0	61	128				
Surr: 4-Bromofluorobenzene	48.2		50.00		96.3	78.2	117				
Surr: Dibromofluoromethane	49.2		50.00		98.4	66.6	130				
Surr: Toluene-d8	49.0		50.00		98.0	80.1	122				

Sample ID: <b>LCS-G080414-1</b>	Sample Type: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/14/2008</b>	RunNo: <b>106752</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44057</b>	<b>SW5035</b>	Analysis Date: <b>4/14/2008</b>	SeqNo: <b>1908288</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	42.8	2.0	50.00	0	85.5	69.1	121				
Benzene	48.0	1.0	50.00	0	95.9	75	123				
Toluene	48.2	5.0	50.00	0	96.4	77.3	117				
Ethylbenzene	48.8	5.0	50.00	0	97.5	80.8	118				
Xylenes, Total	98.5	5.0	100.0	0	98.5	78.5	121				
Surr: 1,2-Dichloroethane-d4	45.1		50.00		90.2	61	128				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: V\_BTEX\_S

Sample ID: LCS-G080414-1	SampType: LCS	Units: µg/Kg	Prep Date: 4/14/2008	RunNo: 106752
Client ID: ZZZZZZ	Batch ID: 44057	SW5035	Analysis Date: 4/14/2008	SeqNo: 1908288

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	48.6		50.00		97.1	78.2	117				
Surr: Dibromofluoromethane	49.4		50.00		98.8	66.6	130				
Surr: Toluene-d8	49.4		50.00		98.7	80.1	122				

Sample ID: LCSD-G080414-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/14/2008	RunNo: 106752
Client ID: ZZZZZZ	Batch ID: 44057	SW5035	Analysis Date: 4/14/2008	SeqNo: 1908289

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	45.9	2.0	50.00	0	91.8	69.1	121	42.75	7.08	20	
Benzene	49.2	1.0	50.00	0	98.4	75	123	47.95	2.57	20	
Toluene	49.5	5.0	50.00	0	99.1	77.3	117	48.22	2.68	20	
Ethylbenzene	50.4	5.0	50.00	0	100.8	80.8	118	48.77	3.31	20	
Xylenes, Total	101	5.0	100.0	0	101.4	78.5	121	98.49	2.91	20	
Surr: 1,2-Dichloroethane-d4	45.8		50.00		91.7	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	78.2	117		0	0	
Surr: Dibromofluoromethane	48.5		50.00		96.9	66.6	130		0	0	
Surr: Toluene-d8	48.6		50.00		97.3	80.1	122		0	0	

Sample ID: MBLK-G080414-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/14/2008	RunNo: 106752
Client ID: ZZZZZZ	Batch ID: 44057	SW5035	Analysis Date: 4/14/2008	SeqNo: 1908290

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	2.0									
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	45.4		50.00		90.7	61	128				
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	78.2	117				
Surr: Dibromofluoromethane	48.2		50.00		96.4	66.6	130				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-G080414-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>4/14/2008</b>	RunNo: <b>106752</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44057</b>	<b>SW5035</b>	Analysis Date: <b>4/14/2008</b>	SeqNo: <b>1908290</b>
Analyte	Result	PQL	SPK value	SPK Ref Val
Surr: Toluene-d8	48.3		50.00	
		%REC	LowLimit	HighLimit
		96.7	80.1	122
			%RPD	RPDLimit
				Qual



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: V\_BTEXOA1\_S

Sample ID: LCS-G080410-2	SampType: LCS	Units: µg/Kg	Prep Date: 4/10/2008	RunNo: 106672
Client ID: ZZZZZZ	Batch ID: 44002	SW5035	Analysis Date: 4/11/2008	SeqNo: 1905647

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	44.7	2.0	50.00	0	89.4	69.1	121				
Benzene	47.8	1.0	50.00	0	95.7	75	123				
Toluene	46.7	5.0	50.00	0	93.4	77.3	117				
Ethylbenzene	47.6	5.0	50.00	0	95.2	80.3	118				
Xylenes, Total	95.6	5.0	100.0	0	95.6	78.5	121				
Surr: 1,2-Dichloroethane-d4	47.3		50.00		94.7	61	128				
Surr: 4-Bromofluorobenzene	49.7		50.00		99.4	78.2	117				
Surr: Dibromofluoromethane	50.4		50.00		100.8	66.6	130				
Surr: Toluene-d8	48.7		50.00		97.4	80.1	122				

Sample ID: LCSD-G080410-2	SampType: LCSD	Units: µg/Kg	Prep Date: 4/10/2008	RunNo: 106672
Client ID: ZZZZZZ	Batch ID: 44002	SW5035	Analysis Date: 4/11/2008	SeqNo: 1905648

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	44.0	2.0	50.00	0	88.0	69.1	121	44.68	1.51	20	
Benzene	48.5	1.0	50.00	0	96.9	75	123	47.83	1.31	20	
Toluene	46.5	5.0	50.00	0	92.9	77.3	117	46.68	0.451	20	
Ethylbenzene	46.3	5.0	50.00	0	92.6	80.3	118	47.58	2.68	20	
Xylenes, Total	91.9	5.0	100.0	0	91.9	78.5	121	95.58	3.95	0	
Surr: 1,2-Dichloroethane-d4	48.3		50.00		96.6	61	128		0	0	
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	78.2	117		0	0	
Surr: Dibromofluoromethane	51.2		50.00		102.4	66.6	130		0	0	
Surr: Toluene-d8	49.0		50.00		98.0	80.1	122		0	0	

Sample ID: LCS1-G080410-2	SampType: LCS1	Units: µg/Kg	Prep Date: 4/10/2008	RunNo: 106672
Client ID: ZZZZZZ	Batch ID: 44002	SW5035	Analysis Date: 4/11/2008	SeqNo: 1905649

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	37.5	2.0	31.20	0	120.2	70	130				
Benzene	24.1	1.0	21.20	0	113.8	70	130				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: V\_BTEXOA1\_S

Sample ID:	LCS1-G080410-2	SampType:	LCS1	Units:	µg/Kg	Prep Date:	4/10/2008	RunNo:	106672		
Client ID:	ZZZZZZ	Batch ID:	44002	SW5035		Analysis Date:	4/11/2008	SeqNo:	1905649		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	168	5.0	183.6	0	91.7	70	130				
Ethylbenzene	30.7	5.0	36.80	0	83.5	70	130				
Xylenes, Total	175	5.0	211.6	0	82.8	70	130				
Gasoline Range Organics	2010	1000	2200	0	91.3	70	130				
Surr: 1,2-Dichloroethane-d4	51.0		50.00		102.0	61	128				
Surr: 4-Bromofluorobenzene	50.1		50.00		100.2	78.2	117				
Surr: Dibromofluoromethane	50.4		50.00		100.9	66.6	130				
Surr: Toluene-d8	50.0		50.00		100.1	80.1	122				

Sample ID:	LCS1D-G080410-2	SampType:	LCS1D	Units:	µg/Kg	Prep Date:	4/10/2008	RunNo:	106672		
Client ID:	ZZZZZZ	Batch ID:	44002	SW5035		Analysis Date:	4/11/2008	SeqNo:	1905650		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	37.2	2.0	31.20	0	119.1	70	130	37.51	0.937	20	
Benzene	23.6	1.0	21.20	0	111.5	70	130	24.13	2.05	20	
Toluene	166	5.0	183.6	0	90.3	70	130	168.3	1.54	20	
Ethylbenzene	30.0	5.0	36.80	0	81.4	70	130	30.71	2.51	20	
Xylenes, Total	171	5.0	211.6	0	81.0	70	130	175.3	2.24	20	
Gasoline Range Organics	2030	1000	2200	0	92.3	70	130	2008	1.09	20	
Surr: 1,2-Dichloroethane-d4	51.4		50.00		102.9	61	128		0	0	
Surr: 4-Bromofluorobenzene	50.5		50.00		101.0	78.2	117		0	0	
Surr: Dibromofluoromethane	50.7		50.00		101.5	66.6	130		0	0	
Surr: Toluene-d8	49.1		50.00		98.2	80.1	122		0	0	

Sample ID:	MBLK-G080410-2	SampType:	MBLK	Units:	µg/Kg	Prep Date:	4/10/2008	RunNo:	106672		
Client ID:	ZZZZZZ	Batch ID:	44002	SW5035		Analysis Date:	4/11/2008	SeqNo:	1905651		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	2.0									
Benzene	ND	1.0									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040412 Report Date: 16-Apr-08

TestCode: V\_BTEXOA1\_S

Sample ID: <b>MBLK-G080410-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	RunNo: <b>106672</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44002</b>	<b>SW5035</b>	SeqNo: <b>1905651</b>
Prep Date: <b>4/10/2008</b>		Analysis Date: <b>4/11/2008</b>	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Gasoline Range Organics	ND	1000									
Surr: 1,2-Dichloroethane-d4	46.5		50.00		93.0	61	128				
Surr: 4-Bromofluorobenzene	49.4		50.00		98.8	78.2	117				
Surr: Dibromofluoromethane	48.7		50.00		97.4	66.6	130				
Surr: Toluene-d8	49.3		50.00		98.6	80.1	122				

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**RECEIVING CHECK LIST****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08040412**Report Date:** 16-Apr-08

Carrier: Leslie Hoosier

Received By: AMH

Completed by:

On:

10-Apr-08

*Marvin L. Darling II*

Marvin L. Darling

Reviewed by:

On:

10-Apr-08

*Elizabeth A. Hurley*

Elizabeth A. Hurley

Pages to follow: Chain of custody Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C	5.8
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>		
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>		
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice	<input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>		
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>					
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted	<input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Any No responses must be detailed below or on the COC.



# Chain of Custody Record

210 West Sand Bank Road  
 P.O. Box 230  
 Columbia, IL 62236-0230

COC Serial No. **B 08873**

08040412

Project Name: Ameron P. Champaign Project Mgr.: Derek Ingram  
 Project Number: 60413053 Cost Code: 624501  
 Sampler(s): L. Hobbsner / R. Watson  
 Laboratory Name: TekLab  
 Location: Collinsville FL

Analyses by Method Name and Number

Method Name and Number	Total Number of Containers	Soil	Water	Air	Wipes	Other *
BTEX 82608	5	X				
Metals #	5	X				
Cyanide	5	X				
For B2974-87	6	X				
PH 9445C	5	X				
DR0/GRD	5	X				
GRD	5	X				

Sample Number and (depth)	Date	Time	Comments (Field PID)	Lab ID #'s
B-820 (8.5'-9.5')	4/4	1341	*Metals-arsenic, chromium, lead	08040412-001
B834 (1.0'-2.0')	4/4	1417		-002
B834 (6.0'-7.0')	4/4	1521		-003
B834 (11.5'-12.5')	4/4	1535	Cyanide - total and amenable	-004
B834 (15.0'-16.0')	4/4	1600		-005
B834 (21.0'-22.0')	4/4	1621	Per Derek Ingram, DBO/GRO should be OAH/CA2, m-DBE	4/10/08

Laboratory Temperature upon Receipt  
 5.8

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**  5 Days  Other

Requested TAT:  Rush  STD

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Deshie Hoover Date 4-10 Time 1:35

**Received by:** Signature D. Hobbs Date 4/10/08 Time 11:35



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

COC Serial No. **B 08879**

08040412

Project Name: American IP Campaign Project Mgr.: Derek Ingram

Project Number: 62403053 Cost Code: 024501

Sampler(s): L. Hoosier

Laboratory Name: TekLab

Location: Collinsville IL

Sample Number and (depth)	Date	Time	Matrix			
			Soil	Water	Air	Wipes
B-805 (1'-2')	4-9	1118	X			
B-805 (7'-8')	4-9	1145	X			
B-805 (13.0'-14.0')	4-9	1210	X			

Analyses by Method Name and Number	Total Number of Containers	Matrix				Comments (Field PID)	Lab ID #'s
		Soil	Water	Air	Wipes		
BTEX	9	X	X	X	X		08040412-009
PAH	9	X	X	X	X		-007
Metals	9	X	X	X	X		-008
Cyanide	9	X	X	X	X		
Foc	9	X	X	X	X		
PH	9	X	X	X	X		

Laboratory Temperature upon Receipt  
5.8

(was bagged w/ samples w/ correct label)  
\* VOA vial (SB) was labeled  
B-805 (1-2) - lab labeled  
it 08040412-007 E 2of2, ERS 4/10/08

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:** Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Charlie Hoosier Date 4-10 Time 1135

**Received by:** Signature A. Hoosier Date 4/10/08 Time 11:35



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08040412

COC Serial No. **B** 08878

Project Name: Ameren IP Campaign Project Mgr.: Derek Ingram  
 Project Number: 02403053 Cost Code: 024501

Sampler(s): R. Huson / L. Hoosier  
 Laboratory Name: Texaco  
 Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix					Total Number of Containers	Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
			Soil	Water	Air	Wipes	Other *				
B807 (2.0'-3.0')	4/18	1405	X				5	PAH B2705MMS BTEX B2608 Metals * Cyanide foc B2974-B7 # 9045e GRO DPO		08040412-009 -010 -011 -012 -013 -014 -015	
B807 (2.0'-3.0') Dup	4/18	1405	X				5				
B807 (8.5'-9.5')	4/18	1430	X				6				
B807 (13'-14')	4/18	1505	X				6		X		
B804 (1.5'-2.5')	4/18	1534	X				6				
B804 (8.5'-9.5')	4/18	1547	X				6				
B804 (15'-16')	4/18	1607	X				5				

Laboratory Temperature upon Receipt  
58

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:** Requested TAT:  Rush  5 Days  STD  Other \_\_\_\_\_  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other \_\_\_\_\_  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Shelie Hoosier Date 4-10 Time 1135

**Received by:** Signature G. Hoosier Date 4/10/08 Time 11:35





# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

COC Serial No. **B 08876**

08040412

Project Name: Amesbury IP Campaign Project Mgr.: Derek Ingram  
Project Number: 02403053 Cost Code: 024501

Sampler(s): R. Huson  
Laboratory Name: Tex-lab  
Location: Collinsville, IL

Analyses by Method Name and Number  
Total Number of Containers: 9  
Matrix: Metals  
Soil: X  
Water: X  
Air: X  
Wipes: X  
Other: X

Sample Number and (depth)	Date	Time	PH B705ms	Metals *	Cyanide	PH D2974-87	PH 9045C	Comments (Field PID)	Lab ID #'s
B-819 (2'-3')	4-7	1302	X	X	X	X	X	Metals -	08040412-016
B-819 (8.5'-9.5')	4-7	1320	X	X	X	X	X	arsenic, chrominum,	-017
B-819 (28'-29')	4-7	1415	X	X	X	X	X	lead	-018
B-817 (2'-3')	4-7	1445	X	X	X	X	X		-019
B-817 (8.0'-9.0')	4-7	1500	X	X	X	X	X	Cyanide - total	-020
B-817 (26'-27')	4-7	1605	X	X	X	X	X	↓ amenable	-021
B-815 (2'-3')	4-7	1635	X	X	X	X	X		-022
B-815 (7'-8')	4-7	1650	X	X	X	X	X		-023
B-815 (25'-26')	4-7	1720	X	X	X	X	X		-024
B-813 (20'-30')	4-7	1741	X	X	X	X	X		-025
B-813 (6'-7')	4-7	1757	X	X	X	X	X		-026
B-813 (11'-12')	4-7	1810	X	X	X	X	X		-027

Laboratory Temperature upon Receipt  
5.8

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other \_\_\_\_\_

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other \_\_\_\_\_

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Jessie Hoover Date 4-10 Time 1135

**Received by:** Signature C. Hoover Date 4/10/08 Time 11:35





# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

COC Serial No. **B 08877**

08040412

Project Name: Amesbury Campaign Project Mgr.: Derek Ingram  
Project Number: 62403053 Cost Code: 024501

Sampler(s): L. Hoessier / R. Huson  
Laboratory Name: TekLab  
Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers	Analyses by Method Name and Number						Comments (Field PID)	Lab ID #s		
			Soil	Water	Air	Wipes		Other *	PHH 82751M	Metals *	Cyanide	Foc 02974-87	PH 904-SC			Geo	Geo
B-836 (1.5'-2.5')	4-8	0905	X				5	X								Metals - arsenic	08040412-025
B-836 (9'-10')	4-8	0930	X				6	X					X			chromium, lead	-029
B-836 (25'-26')	4-8	1024	X				5	X									-030
B-801 (2.0'-3.0')	4-8	1042	X				5	X			X					Cyanide - total	-031
B-801 (9.0'-10.0')	4-8	1057	X				5	X			X					and amenable	-032
B-801 (25.0'-26.0')	4-8	1130	X				5	X			X					* HOLD *	-033
B-806 (2'-3')	4-8	1200	X				5	X								All B-830 samples	-034
B-806 (8.5'-9.5')	4-8	1215	X				5	X			X						-035
B-806 (11'-12')	4-8	1230	X				5	X			X						-036

Laboratory Temperature upon Receipt  
58

\* \* \* Comment

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Dustin Hoover Date 4-10 Time 1:35

**Received by:** Signature B. Hoessier Date 4-10 Time 11:35

Shaded Areas to be Completed by Lab

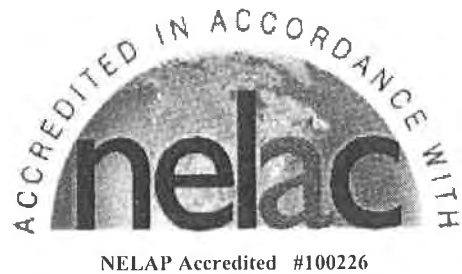
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 23, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08040620

Dear Derek Ingram:

TEKLAB, INC received 16 samples on 4/16/2008 10:00:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**SAMPLE SUMMARY****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08040620**Report Date:** 23-Apr-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08040620-001	B-837 (0.5 ft-2.0 ft)	4	4/14/2008 9:55:00 AM
08040620-002	B-837 (9 ft-10 ft)	4	4/14/2008 9:55:00 AM
08040620-003	B-837 (12 ft- 13 ft)	4	4/14/2008 10:45:00 AM
08040620-004	B-800 (2 ft-3 ft)	4	4/14/2008 12:15:00 PM
08040620-005	B-800 (9 ft-10 ft)	4	4/14/2008 12:40:00 PM
08040620-006	B-800 (11.5 ft- 12.5 ft)	4	4/14/2008 1:00:00 PM
08040620-007	B-839 (2.0 ft- 3.0 ft)	4	4/14/2008 5:25:00 PM
08040620-008	B-839 (6.0 ft- 7.0 ft)	4	4/14/2008 5:36:00 PM
08040620-009	B-839 (16.0 ft- 17.0 ft)	4	4/14/2008 6:12:00 PM
08040620-010	B-802 (2.0 ft-3.0 ft)	4	4/15/2008 8:50:00 AM
08040620-011	B-802 (8.5 ft-10.0 ft)	4	4/15/2008 9:15:00 AM
08040620-012	B-802 (14.5 ft- 15.5 ft)	4	4/15/2008 9:50:00 AM
08040620-013	B-802 (25 ft- 26 ft)	4	4/15/2008 10:20:00 AM
08040620-014	B-840 (1 ft- 2 ft)	4	4/15/2008 10:50:00 AM
08040620-015	B-840 (7 ft- 8 ft)	4	4/15/2008 11:15:00 AM
08040620-016	B-840 (18 ft-19 ft)	4	4/15/2008 11:45:00 AM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08040620

**Report Date:** 23-Apr-08

**Cooler Receipt Temp:** 4.4 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-837 (0.5 ft-2.0 ft)

Lab ID: 08040620-001

Collection Date: 4/14/2008 9:55:00 AM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.5	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.5	%	1	4/16/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		5.95	mg/Kg-dry	1	4/21/2008 9:51:48 AM	LAL
Chromium	NELAP	1.00		19.0	mg/Kg-dry	1	4/18/2008 7:12:34 PM	CRK
Lead	NELAP	4.00		85.2	mg/Kg-dry	1	4/18/2008 7:12:34 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.021		ND	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Acenaphthylene	NELAP	0.021		0.137	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Anthracene	NELAP	0.021		0.108	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Benzo(a)anthracene	NELAP	0.021	S	0.664	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Benzo(a)pyrene	NELAP	0.021	S	0.785	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.021	S	0.986	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.021	S	0.509	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.021	S	0.357	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Chrysene	NELAP	0.021	S	0.697	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.021		0.165	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Fluoranthene	NELAP	0.021	S	0.980	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Fluorene	NELAP	0.021	J	0.020	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.021	S	0.484	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Naphthalene	NELAP	0.021		0.059	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Phenanthrene	NELAP	0.021	S	0.343	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Pyrene	NELAP	0.021	S	0.878	mg/Kg-dry	5	4/17/2008 2:19:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		61.9	%REC	5	4/17/2008 2:19:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		56.9	%REC	5	4/17/2008 2:19:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.9	%REC	5	4/17/2008 2:19:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		1.3	µg/Kg-dry	1	4/17/2008 8:48:00 PM	JSA
Ethylbenzene	NELAP	5.4		ND	µg/Kg-dry	1	4/17/2008 8:48:00 PM	JSA
Toluene	NELAP	5.4	J	1.5	µg/Kg-dry	1	4/17/2008 8:48:00 PM	JSA
Xylenes, Total	NELAP	5.4	J	1.1	µg/Kg-dry	1	4/17/2008 8:48:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		91.2	%REC	1	4/17/2008 8:48:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		94.5	%REC	1	4/17/2008 8:48:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		94.1	%REC	1	4/17/2008 8:48:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.7	%REC	1	4/17/2008 8:48:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.59	J	0.48	mg/Kg-dry	1	4/18/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08040620**Lab ID:** 08040620-001**Report Date:** 23-Apr-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-837 (0.5 ft-2.0 ft)**Collection Date:** 4/14/2008 9:55:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u>								
Cyanide, Amenable to Chlorination		0.59		Interference	mg/Kg-dry	1	4/18/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Matrix spike did not recover within control limits because of sample composition.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040620

Lab ID: 08040620-002

Report Date: 23-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-837 (9 ft-10 ft)

Collection Date: 4/14/2008 9:55:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.2	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.8	%	1	4/16/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		6.37	mg/Kg-dry	1	4/21/2008 9:58:33 AM	LAL
Chromium	NELAP	1.00		24.4	mg/Kg-dry	1	4/18/2008 7:16:47 PM	CRK
Lead	NELAP	4.00		17.9	mg/Kg-dry	1	4/18/2008 7:16:47 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 2:24:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		54.7	%REC	1	4/17/2008 2:24:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		49.3	%REC	1	4/17/2008 2:24:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.1	%REC	1	4/17/2008 2:24:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		3.4	µg/Kg-dry	1	4/17/2008 9:19:00 PM	JSA
Ethylbenzene	NELAP	3.9		ND	µg/Kg-dry	1	4/17/2008 9:19:00 PM	JSA
Toluene	NELAP	3.9	J	1.4	µg/Kg-dry	1	4/17/2008 9:19:00 PM	JSA
Xylenes, Total	NELAP	3.9	J	1.1	µg/Kg-dry	1	4/17/2008 9:19:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		86.7	%REC	1	4/17/2008 9:19:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		92.2	%REC	1	4/17/2008 9:19:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		93.5	%REC	1	4/17/2008 9:19:00 PM	JSA
Surr: Toluene-d8		80.1-122		97.3	%REC	1	4/17/2008 9:19:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.61		< 0.61	mg/Kg-dry	1	4/18/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-837 (9 ft-10 ft)

Lab ID: 08040620-002

Collection Date: 4/14/2008 9:55:00 AM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.61		< 0.61	mg/Kg-dry	1	4/18/2008	AET

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040620

Lab ID: 08040620-003

Report Date: 23-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-837 (12 ft- 13 ft)

Collection Date: 4/14/2008 10:45:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		17.4	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.6	%	1	4/16/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 11:22:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		51.1	%REC	1	4/17/2008 11:22:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		46.5	%REC	1	4/17/2008 11:22:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.3	%REC	1	4/17/2008 11:22:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		3.3	µg/Kg-dry	1	4/17/2008 9:50:00 PM	JSA
Ethylbenzene	NELAP	4.7	J	1.8	µg/Kg-dry	1	4/17/2008 9:50:00 PM	JSA
Toluene	NELAP	4.7		6.0	µg/Kg-dry	1	4/17/2008 9:50:00 PM	JSA
Xylenes, Total	NELAP	4.7	J	3.6	µg/Kg-dry	1	4/17/2008 9:50:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		66.0	%REC	1	4/17/2008 9:50:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		111.5	%REC	1	4/17/2008 9:50:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		76.7	%REC	1	4/17/2008 9:50:00 PM	JSA
Surr: Toluene-d8		80.1-122		101.3	%REC	1	4/17/2008 9:50:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**Client Project:** A831-735002-012901-225/IP Champ

**WorkOrder:** 08040620

**Client Sample ID:** B-800 (2 ft-3 ft)

**Lab ID:** 08040620-004

**Collection Date:** 4/14/2008 12:15:00 PM

**Report Date:** 23-Apr-08

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		3.55	wt%	1	4/16/2008	TWM
Organic Matter		0.10		6.13	wt%	1	4/16/2008	TWM
Percent Moisture		0.1		20.2	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.8	%	1	4/16/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.107		ND	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Acenaphthylene	NELAP	0.107		1.43	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Anthracene	NELAP	0.107	J	0.10	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Benzo(a)anthracene	NELAP	0.107		1.12	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Benzo(a)pyrene	NELAP	0.107		2.42	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.107		2.50	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.107		1.65	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.107		0.943	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Chrysene	NELAP	0.107		1.19	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.107		0.495	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Fluoranthene	NELAP	0.107		0.876	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Fluorene	NELAP	0.107		ND	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.107		1.43	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Naphthalene	NELAP	0.107		ND	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Phenanthrene	NELAP	0.107		0.206	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Pyrene	NELAP	0.107		1.31	mg/Kg-dry	25	4/17/2008 4:02:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		44.9	%REC	25	4/17/2008 4:02:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		44.9	%REC	25	4/17/2008 4:02:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.9	%REC	25	4/17/2008 4:02:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		2.0	µg/Kg-dry	1	4/17/2008 10:20:00 PM	JSA
Ethylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	4/17/2008 10:20:00 PM	JSA
Toluene	NELAP	5.9		ND	µg/Kg-dry	1	4/17/2008 10:20:00 PM	JSA
Xylenes, Total	NELAP	5.9		ND	µg/Kg-dry	1	4/17/2008 10:20:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		92.4	%REC	1	4/17/2008 10:20:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		78.4	%REC	1	4/17/2008 10:20:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		100.3	%REC	1	4/17/2008 10:20:00 PM	JSA
Surr: Toluene-d8		80.1-122		92.5	%REC	1	4/17/2008 10:20:00 PM	JSA
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		7.79		1	4/17/2008 1:52:00 PM	NJK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040620

**Lab ID:** 08040620-004

**Report Date:** 23-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-800 (2 ft-3 ft)

**Collection Date:** 4/14/2008 12:15:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
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### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-800 (9 ft-10 ft)

Lab ID: 08040620-005

Collection Date: 4/14/2008 12:40:00 PM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		0.51	wt%	1	4/16/2008	TWV
Organic Matter		0.10		0.87	wt%	1	4/16/2008	TWV
Percent Moisture		0.1		14.5	%	1	4/16/2008	TWV
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		85.5	%	1	4/16/2008	TWV
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.040		ND	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Acenaphthylene	NELAP	0.040		0.300	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Anthracene	NELAP	0.040		0.304	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Benzo(a)anthracene	NELAP	0.040		2.09	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Benzo(a)pyrene	NELAP	0.040		2.56	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.040		3.03	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.040		1.41	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.040		1.13	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Chrysene	NELAP	0.040		2.17	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.040		0.484	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Fluoranthene	NELAP	0.040		3.14	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Fluorene	NELAP	0.040		0.062	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.040		1.42	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Naphthalene	NELAP	0.040		0.177	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Phenanthrene	NELAP	0.040		1.02	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Pyrene	NELAP	0.040		3.02	mg/Kg-dry	10	4/17/2008 4:36:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.9	%REC	10	4/17/2008 4:36:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		49.9	%REC	10	4/17/2008 4:36:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.9	%REC	10	4/17/2008 4:36:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.8	µg/Kg-dry	1	4/17/2008 10:51:00 PM	JSA
Ethylbenzene	NELAP	4.5		ND	µg/Kg-dry	1	4/17/2008 10:51:00 PM	JSA
Toluene	NELAP	4.5	J	3.4	µg/Kg-dry	1	4/17/2008 10:51:00 PM	JSA
Xylenes, Total	NELAP	4.5	J	1.1	µg/Kg-dry	1	4/17/2008 10:51:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		63.4	%REC	1	4/17/2008 10:51:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		100	%REC	1	4/17/2008 10:51:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		66.8	%REC	1	4/17/2008 10:51:00 PM	JSA
Surr: Toluene-d8		80.1-122		101.6	%REC	1	4/17/2008 10:51:00 PM	JSA
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		7.86		1	4/17/2008 1:55:00 PM	NJK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040620

**Lab ID:** 08040620-005

**Report Date:** 23-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-800 (9 ft-10 ft)

**Collection Date:** 4/14/2008 12:40:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
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### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-800 (11.5 ft- 12.5 ft)

Lab ID: 08040620-006

Collection Date: 4/14/2008 1:00:00 PM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		0.47	wt%	1	4/16/2008	TWM
Organic Matter		0.10		0.80	wt%	1	4/16/2008	TWM
Percent Moisture		0.1		13.3	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.7	%	1	4/16/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.035	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.085	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.034	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.065	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.078	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.051	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.027	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Chrysene	NELAP	0.004		0.037	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.015	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Fluoranthene	NELAP	0.004		0.040	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Fluorene	NELAP	0.004		0.005	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.044	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Naphthalene	NELAP	0.004		0.009	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Phenanthrene	NELAP	0.004		0.019	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Pyrene	NELAP	0.004		0.056	mg/Kg-dry	1	4/17/2008 5:10:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		49.3	%REC	1	4/17/2008 5:10:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		44.9	%REC	1	4/17/2008 5:10:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		60.1	%REC	1	4/17/2008 5:10:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		3.1	µg/Kg-dry	1	4/17/2008 11:21:00 PM	JSA
Ethylbenzene	NELAP	4.5	J	1.7	µg/Kg-dry	1	4/17/2008 11:21:00 PM	JSA
Toluene	NELAP	4.5		5.8	µg/Kg-dry	1	4/17/2008 11:21:00 PM	JSA
Xylenes, Total	NELAP	4.5		4.5	µg/Kg-dry	1	4/17/2008 11:21:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	59.9	%REC	1	4/17/2008 11:21:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.1	%REC	1	4/17/2008 11:21:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		68.6	%REC	1	4/17/2008 11:21:00 PM	JSA
Surr: Toluene-d8		80.1-122		94.9	%REC	1	4/17/2008 11:21:00 PM	JSA
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		8.14		1	4/17/2008 2:00:00 PM	NJK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040620

**Lab ID:** 08040620-006

**Report Date:** 23-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-800 (11.5 ft- 12.5 ft)

**Collection Date:** 4/14/2008 1:00:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
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### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-839 (2.0 ft- 3.0 ft)

Lab ID: 08040620-007

Collection Date: 4/14/2008 5:25:00 PM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.3	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.7	%	1	4/16/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		5.34	mg/Kg-dry	1	4/21/2008 10:18:45 AM	LAL
Chromium	NELAP	1.00		32.2	mg/Kg-dry	1	4/18/2008 7:38:48 PM	CRK
Lead	NELAP	4.00		19.3	mg/Kg-dry	1	4/18/2008 7:38:48 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/18/2008 2:37:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		36.9	%REC	1	4/18/2008 2:37:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		43.1	%REC	1	4/18/2008 2:37:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		58.1	%REC	1	4/18/2008 2:37:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.4		ND	µg/Kg-dry	1	4/17/2008 11:51:00 PM	JSA
Ethylbenzene	NELAP	7.1		ND	µg/Kg-dry	1	4/17/2008 11:51:00 PM	JSA
Toluene	NELAP	7.1		ND	µg/Kg-dry	1	4/17/2008 11:51:00 PM	JSA
Xylenes, Total	NELAP	7.1		ND	µg/Kg-dry	1	4/17/2008 11:51:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		91.0	%REC	1	4/17/2008 11:51:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.4	%REC	1	4/17/2008 11:51:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		97.7	%REC	1	4/17/2008 11:51:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.2	%REC	1	4/17/2008 11:51:00 PM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.62		< 0.62	mg/Kg-dry	1	4/18/2008	AET



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040620

**Lab ID:** 08040620-007

**Report Date:** 23-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-839 (2.0 ft- 3.0 ft)

**Collection Date:** 4/14/2008 5:25:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.62		< 0.62	mg/Kg-dry	1	4/18/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040620

Lab ID: 08040620-008

Report Date: 23-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-839 (6.0 ft- 7.0 ft)

Collection Date: 4/14/2008 5:36:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		18.7	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.3	%	1	4/16/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		4.45	mg/Kg-dry	1	4/21/2008 10:25:32 AM	LAL
Chromium	NELAP	1.00		29.7	mg/Kg-dry	1	4/18/2008 7:43:02 PM	CRK
Lead	NELAP	4.00		16.9	mg/Kg-dry	1	4/18/2008 7:43:02 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:00:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		34.1	%REC	1	4/17/2008 3:00:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		33.9	%REC	1	4/17/2008 3:00:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.7	%REC	1	4/17/2008 3:00:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	4/18/2008 12:22:00 AM	JSA
Ethylbenzene	NELAP	4.3		ND	µg/Kg-dry	1	4/18/2008 12:22:00 AM	JSA
Toluene	NELAP	4.3		ND	µg/Kg-dry	1	4/18/2008 12:22:00 AM	JSA
Xylenes, Total	NELAP	4.3		ND	µg/Kg-dry	1	4/18/2008 12:22:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		90.9	%REC	1	4/18/2008 12:22:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.9	%REC	1	4/18/2008 12:22:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		96.5	%REC	1	4/18/2008 12:22:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.9	%REC	1	4/18/2008 12:22:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.59		< 0.59	mg/Kg-dry	1	4/18/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-839 (6.0 ft- 7.0 ft)

Lab ID: 08040620-008

Collection Date: 4/14/2008 5:36:00 PM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.59		< 0.59	mg/Kg-dry	1	4/18/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-839 (16.0 ft- 17.0 ft)

Lab ID: 08040620-009

Collection Date: 4/14/2008 6:12:00 PM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.7	%	1	4/16/2008	TWV
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.3	%	1	4/16/2008	TWV
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.005	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Naphthalene	NELAP	0.004		0.008	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	4/17/2008 6:20:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		59.1	%REC	1	4/17/2008 6:20:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		51.3	%REC	1	4/17/2008 6:20:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.1	%REC	1	4/17/2008 6:20:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		0.9	µg/Kg-dry	1	4/18/2008 12:52:00 AM	JSA
Ethylbenzene	NELAP	3.8		ND	µg/Kg-dry	1	4/18/2008 12:52:00 AM	JSA
Toluene	NELAP	3.8	J	0.9	µg/Kg-dry	1	4/18/2008 12:52:00 AM	JSA
Xylenes, Total	NELAP	3.8		ND	µg/Kg-dry	1	4/18/2008 12:52:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		94.3	%REC	1	4/18/2008 12:52:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		95.7	%REC	1	4/18/2008 12:52:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		97.6	%REC	1	4/18/2008 12:52:00 AM	JSA
Surr: Toluene-d8		80.1-122		96.4	%REC	1	4/18/2008 12:52:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08040620  
**Lab ID:** 08040620-010  
**Report Date:** 23-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-802 (2.0 ft-3.0 ft)  
**Collection Date:** 4/15/2008 8:50:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		16.1	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		83.9	%	1	4/16/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.102		ND	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Acenaphthylene	NELAP	0.102		0.835	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Anthracene	NELAP	0.102		0.452	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Benzo(a)anthracene	NELAP	0.102		1.64	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Benzo(a)pyrene	NELAP	0.102		2.04	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.102		2.98	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.102		1.33	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.102		1.00	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Chrysene	NELAP	0.102		1.80	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.102		0.421	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Fluoranthene	NELAP	0.102		3.67	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Fluorene	NELAP	0.102	J	0.097	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.102		1.22	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Naphthalene	NELAP	0.102		0.122	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Phenanthrene	NELAP	0.102		2.46	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Pyrene	NELAP	0.102		4.21	mg/Kg-dry	25	4/17/2008 6:55:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		44.9	%REC	25	4/17/2008 6:55:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		34.9	%REC	25	4/17/2008 6:55:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.9	%REC	25	4/17/2008 6:55:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.4		3.7	µg/Kg-dry	1	4/18/2008 1:23:00 AM	JSA
Ethylbenzene	NELAP	7.0	J	2.2	µg/Kg-dry	1	4/18/2008 1:23:00 AM	JSA
Toluene	NELAP	7.0	J	4.9	µg/Kg-dry	1	4/18/2008 1:23:00 AM	JSA
Xylenes, Total	NELAP	7.0	J	4.8	µg/Kg-dry	1	4/18/2008 1:23:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		85.9	%REC	1	4/18/2008 1:23:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117	S	77.4	%REC	1	4/18/2008 1:23:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		96.6	%REC	1	4/18/2008 1:23:00 AM	JSA
Surr: Toluene-d8		80.1-122		92.3	%REC	1	4/18/2008 1:23:00 AM	JSA

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-802 (8.5 ft-10.0 ft)

Lab ID: 08040620-011

Collection Date: 4/15/2008 9:15:00 AM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.4	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.6	%	1	4/16/2008	TWM
<b>SW-846 1311, 5030, 8260B, VOLATILE ORGANIC COMPOUNDS IN TCLP EXTRACT BY GC/MS</b>								
Benzene	NELAP	0.100	J	0.052	mg/L	50	4/19/2008 12:23:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		115.3	%REC	50	4/19/2008 12:23:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		106.6	%REC	50	4/19/2008 12:23:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		105.3	%REC	50	4/19/2008 12:23:00 AM	TAL
Surr: Toluene-d8		84.3-114		110.0	%REC	50	4/19/2008 12:23:00 AM	TAL
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		4.34	mg/Kg-dry	1	4/21/2008 10:32:16 AM	LAL
Chromium	NELAP	1.00		25.0	mg/Kg-dry	1	4/18/2008 7:47:16 PM	CRK
Lead	NELAP	4.00		15.4	mg/Kg-dry	1	4/18/2008 7:47:16 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.204		9.50	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Acenaphthylene	NELAP	0.204		9.63	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Anthracene	NELAP	0.204		8.89	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Benzo(a)anthracene	NELAP	0.204		5.15	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Benzo(a)pyrene	NELAP	0.204		4.59	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.204		3.66	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.204		1.59	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.204		1.09	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Chrysene	NELAP	0.204		5.20	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.204		0.591	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Fluoranthene	NELAP	0.204		10.4	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Fluorene	NELAP	0.204		9.83	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.204		1.28	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Naphthalene	NELAP	0.204		24.3	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Phenanthrene	NELAP	0.204		31.5	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Pyrene	NELAP	0.204		15.1	mg/Kg-dry	50	4/17/2008 7:30:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		59.9	%REC	50	4/17/2008 7:30:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		39.9	%REC	50	4/17/2008 7:30:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		69.9	%REC	50	4/17/2008 7:30:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	29.5		1920	µg/Kg-dry	12.5	4/18/2008 1:53:00 AM	JSA
Ethylbenzene	NELAP	147		3110	µg/Kg-dry	12.5	4/18/2008 1:53:00 AM	JSA
Toluene	NELAP	147	J	110	µg/Kg-dry	12.5	4/18/2008 1:53:00 AM	JSA
Xylenes, Total	NELAP	147		3990	µg/Kg-dry	12.5	4/18/2008 1:53:00 AM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040620

**Lab ID:** 08040620-011

**Report Date:** 23-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-802 (8.5 ft-10.0 ft)

**Collection Date:** 4/15/2008 9:15:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Surr: 1,2-Dichloroethane-d4		61-128		115.2	%REC	12.5	4/18/2008 1:53:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		109.2	%REC	12.5	4/18/2008 1:53:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130	S	152.0	%REC	12.5	4/18/2008 1:53:00 AM	JSA
Surr: Toluene-d8		80.1-122		113.6	%REC	12.5	4/18/2008 1:53:00 AM	JSA
<b><u>SW-846 9010B, 9014</u></b>								
Cyanide	NELAP	0.57		0.97	mg/Kg-dry	1	4/18/2008	AET
<b><u>SW-846 9014A</u></b>								
Cyanide, Amenable to Chlorination		0.57		Interference	mg/Kg-dry	1	4/18/2008	AET

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040620

Lab ID: 08040620-012

Report Date: 23-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-802 (14.5 ft- 15.5 ft)

Collection Date: 4/15/2008 9:50:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.9	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.1	%	1	4/16/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		5.84	mg/Kg-dry	1	4/21/2008 10:39:03 AM	LAL
Chromium	NELAP	1.00		17.9	mg/Kg-dry	1	4/18/2008 7:51:28 PM	CRK
Lead	NELAP	4.00		15.8	mg/Kg-dry	1	4/18/2008 7:51:28 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.382		4.66	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Acenaphthylene	NELAP	0.382		18.3	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Anthracene	NELAP	0.382		12.3	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Benzo(a)anthracene	NELAP	0.382		7.69	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Benzo(a)pyrene	NELAP	0.382		7.28	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.382		6.01	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.382		2.73	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.382		2.08	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Chrysene	NELAP	0.382		7.36	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.382		0.982	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Fluoranthene	NELAP	0.382		17.4	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Fluorene	NELAP	0.382		13.8	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.382		2.35	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Naphthalene	NELAP	0.382		78.3	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Phenanthrene	NELAP	0.382		43.2	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Pyrene	NELAP	0.382		21.5	mg/Kg-dry	100	4/17/2008 8:05:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	100	4/17/2008 8:05:00 PM	TDN
Surr: Nitrobenzene-d5		10-132	S	0	%REC	100	4/17/2008 8:05:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		79.8	%REC	100	4/17/2008 8:05:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	497		79900	µg/Kg-dry	250	4/18/2008 2:23:00 AM	JSA
Ethylbenzene	NELAP	2490		31000	µg/Kg-dry	250	4/18/2008 2:23:00 AM	JSA
Toluene	NELAP	2490		57600	µg/Kg-dry	250	4/18/2008 2:23:00 AM	JSA
Xylenes, Total	NELAP	2490		112000	µg/Kg-dry	250	4/18/2008 2:23:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		82.3	%REC	250	4/18/2008 2:23:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		102.5	%REC	250	4/18/2008 2:23:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		91.7	%REC	250	4/18/2008 2:23:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.5	%REC	250	4/18/2008 2:23:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.53	J	0.33	mg/Kg-dry	1	4/18/2008	AET



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08040620**Lab ID:** 08040620-012**Report Date:** 23-Apr-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-802 (14.5 ft- 15.5 ft)**Collection Date:** 4/15/2008 9:50:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u>								
Cyanide, Amenable to Chlorination		0.53		Interference	mg/Kg-dry	1	4/18/2008	AET

**Sample Narrative**

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to sample dilution.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040620

Lab ID: 08040620-013

Report Date: 23-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-802 (25 ft- 26 ft)

Collection Date: 4/15/2008 10:20:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		8.9	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		91.1	%	1	4/16/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.005	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Fluoranthene	NELAP	0.004		0.004	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Naphthalene	NELAP	0.004		0.017	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Phenanthrene	NELAP	0.004		0.010	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Pyrene	NELAP	0.004		0.007	mg/Kg-dry	1	4/17/2008 8:40:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		40.1	%REC	1	4/17/2008 8:40:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		33.5	%REC	1	4/17/2008 8:40:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.5	%REC	1	4/17/2008 8:40:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		43.8	µg/Kg-dry	1	4/18/2008 2:54:00 AM	JSA
Ethylbenzene	NELAP	4.3		ND	µg/Kg-dry	1	4/18/2008 2:54:00 AM	JSA
Toluene	NELAP	4.3	J	1.3	µg/Kg-dry	1	4/18/2008 2:54:00 AM	JSA
Xylenes, Total	NELAP	4.3	J	0.9	µg/Kg-dry	1	4/18/2008 2:54:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	59.6	%REC	1	4/18/2008 2:54:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		109.0	%REC	1	4/18/2008 2:54:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		71.0	%REC	1	4/18/2008 2:54:00 AM	JSA
Surr: Toluene-d8		80.1-122		99.5	%REC	1	4/18/2008 2:54:00 AM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08040620

Client Sample ID: B-840 (1 ft- 2 ft)

Lab ID: 08040620-014

Collection Date: 4/15/2008 10:50:00 AM

Report Date: 23-Apr-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		24.2	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		75.8	%	1	4/16/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.005		ND	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Acenaphthylene	NELAP	0.005		0.062	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Anthracene	NELAP	0.005		0.018	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Benzo(a)anthracene	NELAP	0.005		0.134	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Benzo(a)pyrene	NELAP	0.005		0.169	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.005		0.232	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.005		0.120	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.005		0.082	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Chrysene	NELAP	0.005		0.144	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.005		0.037	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Fluoranthene	NELAP	0.005		0.220	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Fluorene	NELAP	0.005		0.006	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.005		0.113	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Naphthalene	NELAP	0.005		0.011	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Phenanthrene	NELAP	0.005		0.073	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Pyrene	NELAP	0.005		0.194	mg/Kg-dry	1	4/18/2008 3:13:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		37.3	%REC	1	4/18/2008 3:13:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		34.9	%REC	1	4/18/2008 3:13:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		61.3	%REC	1	4/18/2008 3:13:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.3		2.0	µg/Kg-dry	1	4/18/2008 3:24:00 AM	JSA
Ethylbenzene	NELAP	6.7		ND	µg/Kg-dry	1	4/18/2008 3:24:00 AM	JSA
Toluene	NELAP	6.7		ND	µg/Kg-dry	1	4/18/2008 3:24:00 AM	JSA
Xylenes, Total	NELAP	6.7		ND	µg/Kg-dry	1	4/18/2008 3:24:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		87.1	%REC	1	4/18/2008 3:24:00 AM	JSA
Surr: 4-Bromofluorobenzene		78 2-117		97.2	%REC	1	4/18/2008 3:24:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		93.0	%REC	1	4/18/2008 3:24:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.3	%REC	1	4/18/2008 3:24:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040620

**Lab ID:** 08040620-015

**Report Date:** 23-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-840 (7 ft- 8 ft)

**Collection Date:** 4/15/2008 11:15:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		17.2	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.8	%	1	4/16/2008	TWM
<b>SW-846 1311, 5030, 8260B, VOLATILE ORGANIC COMPOUNDS IN TCLP EXTRACT BY GC/MS</b>								
Benzene	NELAP	0.100		ND	mg/L	50	4/19/2008 1:55:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		118.1	%REC	50	4/19/2008 1:55:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		112.3	%REC	50	4/19/2008 1:55:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		103.8	%REC	50	4/19/2008 1:55:00 AM	TAL
Surr: Toluene-d8		84.3-114		106.7	%REC	50	4/19/2008 1:55:00 AM	TAL
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/17/2008 3:37:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		29.7	%REC	1	4/17/2008 3:37:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		32.9	%REC	1	4/17/2008 3:37:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.9	%REC	1	4/17/2008 3:37:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		ND	µg/Kg-dry	1	4/18/2008 3:55:00 AM	JSA
Ethylbenzene	NELAP	4.9		ND	µg/Kg-dry	1	4/18/2008 3:55:00 AM	JSA
Toluene	NELAP	4.9		ND	µg/Kg-dry	1	4/18/2008 3:55:00 AM	JSA
Xylenes, Total	NELAP	4.9		ND	µg/Kg-dry	1	4/18/2008 3:55:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		90.8	%REC	1	4/18/2008 3:55:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		100.3	%REC	1	4/18/2008 3:55:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		93.9	%REC	1	4/18/2008 3:55:00 AM	JSA
Surr: Toluene-d8		80.1-122		99.0	%REC	1	4/18/2008 3:55:00 AM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08040620

**Lab ID:** 08040620-015

**Report Date:** 23-Apr-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-840 (7 ft- 8 ft)

**Collection Date:** 4/15/2008 11:15:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Sample Narrative								

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08040620

Lab ID: 08040620-016

Report Date: 23-Apr-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-840 (18 ft-19 ft)

Collection Date: 4/15/2008 11:45:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.0	%	1	4/16/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.0	%	1	4/16/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.013	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.030	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Anthracene	NELAP	0.004		0.029	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.031	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.030	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.032	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.017	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.011	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Chrysene	NELAP	0.004		0.033	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Fluoranthene	NELAP	0.004		0.060	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Fluorene	NELAP	0.004		0.028	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.012	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Naphthalene	NELAP	0.004		0.112	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Phenanthrene	NELAP	0.004		0.117	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Pyrene	NELAP	0.004		0.068	mg/Kg-dry	1	4/17/2008 9:51:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	1	4/17/2008 9:51:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		32.9	%REC	1	4/17/2008 9:51:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.7	%REC	1	4/17/2008 9:51:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.6	µg/Kg-dry	1	4/18/2008 4:25:00 AM	JSA
Ethylbenzene	NELAP	4.5		ND	µg/Kg-dry	1	4/18/2008 4:25:00 AM	JSA
Toluene	NELAP	4.5	J	1.4	µg/Kg-dry	1	4/18/2008 4:25:00 AM	JSA
Xylenes, Total	NELAP	4.5		ND	µg/Kg-dry	1	4/18/2008 4:25:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128	S	58.1	%REC	1	4/18/2008 4:25:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.1	%REC	1	4/18/2008 4:25:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130	S	60.1	%REC	1	4/18/2008 4:25:00 AM	JSA
Surr: Toluene-d8		80.1-122		95.4	%REC	1	4/18/2008 4:25:00 AM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040620

**Report Date:** 23-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040620-001A	B-837 (0.5 ft-2.0 ft)	4/14/2008	Solid	ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/18/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/21/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 9010B, 9014	4/16/2008	4/18/2008
				SW-846 9014A	4/16/2008	4/18/2008
08040620-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-002A	B-837 (9 ft-10 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/18/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/21/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 9010B, 9014	4/16/2008	4/18/2008
				SW-846 9014A	4/16/2008	4/18/2008
08040620-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-003A	B-837 (12 ft- 13 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-004A	B-800 (2 ft-3 ft)			ASTM D2974		4/16/2008
				ASTM D2974		4/16/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040620

**Report Date:** 23-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040620-004A	B-800 (2 ft-3 ft)	4/14/2008	Solid	Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 9045C		4/17/2008
08040620-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-005A	B-800 (9 ft-10 ft)			ASTM D2974		4/16/2008
				ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 9045C		4/17/2008
08040620-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-006A	B-800 (11.5 ft- 12.5 ft)			ASTM D2974		4/16/2008
				ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 9045C		4/17/2008
08040620-006D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-007A	B-839 (2.0 ft- 3.0 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/18/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/21/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040620

**Report Date:** 23-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040620-007A	B-839 (2.0 ft- 3.0 ft)	4/14/2008	Solid	SW-846 9010B, 9014	4/16/2008	4/18/2008
				SW-846 9014A	4/16/2008	4/18/2008
08040620-007D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-008A	B-839 (6.0 ft- 7.0 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/18/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/21/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 9010B, 9014	4/16/2008	4/18/2008
				SW-846 9014A	4/16/2008	4/18/2008
08040620-008D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008
08040620-009A	B-839 (16.0 ft- 17.0 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-009D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008
08040620-010A	B-802 (2.0 ft-3.0 ft)	4/15/2008		ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-010D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008
08040620-011A	B-802 (8.5 ft-10.0 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/18/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08040620

**Report Date:** 23-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040620-011A	B-802 (8.5 ft-10.0 ft)	4/15/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/21/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 9010B, 9014	4/16/2008	4/18/2008
				SW-846 9014A	4/16/2008	4/18/2008
08040620-011B				SW-846 1311, 5030, 8260B, Volatile Organic Compounds in TCLP Extract by GC/MS	4/18/2008	4/19/2008
08040620-011D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008
08040620-012A	B-802 (14.5 ft- 15.5 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/18/2008
				SW-846 3050B, 6010B, Metals by ICP	4/17/2008	4/21/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 9010B, 9014	4/16/2008	4/18/2008
				SW-846 9014A	4/16/2008	4/18/2008
08040620-012D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008
08040620-013A	B-802 (25 ft- 26 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-013D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008
08040620-014A	B-840 (1 ft- 2 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**DATES REPORT****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08040620**Report Date:** 23-Apr-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08040620-014D	B-840 (1 ft- 2 ft)	4/15/2008	Solid	SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008
08040620-015A	B-840 (7 ft- 8 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-015B				SW-846 1311, 5030, 8260B, Volatile Organic Compounds in TCLP Extract by GC/MS	4/18/2008	4/19/2008
08040620-015D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008
08040620-016A	B-840 (18 ft-19 ft)			ASTM D2974		4/16/2008
				Standard Methods 18th Ed. 2540 G		4/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/17/2008	4/17/2008
08040620-016D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/17/2008	4/18/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level
	<b>C</b> - Client requested RL below PQL
	<b>D</b> - Diluted out of sample
	<b>IDPH</b> - IL Dept. of Public Health
	<b>Q</b> - QC criteria failed
	<b>#</b> - Unknown hydrocarbon
	<b>MI</b> - Matrix interference
	<b>DNI</b> - Did not ignite
	<b>E</b> - Value above quantitation range
	<b>H</b> - Holding time exceeded
	<b>NELAP</b> - IL ELAP and NELAP Accredited

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: LACN\_S\_MT

Lab Order: 08040620

Report Date: 23-Apr-08

Sample ID: MB-44164	SampType: MBLK	Units: mg/Kg	Prep Date: 4/16/2008	RunNo: 107025							
Client ID: ZZZZZZ	Batch ID: 44164	SOP2092	Analysis Date: 4/18/2008	SeqNo: 1917204							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Amenable to Chlorination	< 0.01	0.01									

Sample ID: LCS-44164	SampType: LCS	Units: mg/Kg	Prep Date: 4/16/2008	RunNo: 107025							
Client ID: ZZZZZZ	Batch ID: 44164	SOP2092	Analysis Date: 4/18/2008	SeqNo: 1917205							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Amenable to Chlorination	0.19	0.01	0.2000	0	94.5	85	115				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_OM\_D\_M

Sample ID: 08040620-004ADUP    SampType: DUP

Units: wt%

Prep Date:

RunNo: 107181

Client ID: B-800 (2 ft-3 ft)DUP    Batch ID: R107181

Analysis Date: 4/16/2008

SeqNo: 1922896

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
FOC (0.58 conversion factor)	3.78	0.10						3.554	6.08	25	
Organic Matter	6.51	0.10						6.127	6.08	25	

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: L\_TCN\_S\_MT

Sample ID: MB-R107022	SampType: MBLK	Units: mg/Kg	Prep Date: 4/16/2008	RunNo: 107022
Client ID: ZZZZZZ	Batch ID: 44162	SW9010	Analysis Date: 4/18/2008	SeqNo: 1917161
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	< 0.01	0.01		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCS-R107022	SampType: LCS	Units: mg/Kg	Prep Date: 4/16/2008	RunNo: 107022
Client ID: ZZZZZZ	Batch ID: 44162	SW9010	Analysis Date: 4/18/2008	SeqNo: 1917162
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.19	0.01	0.2000	0
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCSD-R107022	SampType: LCSD	Units: mg/Kg	Prep Date: 4/16/2008	RunNo: 107022
Client ID: ZZZZZZ	Batch ID: 44162	SW9010	Analysis Date: 4/18/2008	SeqNo: 1917163
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.20	0.01	0.2000	0
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: 08040620-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/16/2008	RunNo: 107022
Client ID: B-837 (0.5 ft-2.0 ft)M	Batch ID: 44162	SW9010	Analysis Date: 4/18/2008	SeqNo: 1917165
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	12.7	0.62	12.33	0.4829
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: 08040620-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/16/2008	RunNo: 107022
Client ID: B-837 (0.5 ft-2.0 ft)M	Batch ID: 44162	SW9010	Analysis Date: 4/18/2008	SeqNo: 1917166
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	12.1	0.60	12.04	0.4829
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TS\_M\_MT

Sample ID: LCS-R106905	SampType: LCS	Units: %	Prep Date:	RunNo: 106905							
Client ID: ZZZZZZ	Batch ID: R106905		Analysis Date: 4/16/2008	SeqNo: 1913501							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 106905							
Client ID: ZZZZZZ	Batch ID: R106905		Analysis Date: 4/16/2008	SeqNo: 1913502							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	99.0	90	110				

Sample ID: 08040620-004ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 106905							
Client ID: B-800 (2 ft-3 ft)DUP	Batch ID: R106905		Analysis Date: 4/16/2008	SeqNo: 1914341							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	79.8	0.1						79.85	0.100		15



Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: L\_PH\_S\_M

Sample ID:	08040620-006ADUP	SampType:	DUP	Units:	Prep Date:	RunNo:	107010				
Client ID:	B-800 (11.5 ft- 12.5 ft	Batch ID:	R107010		Analysis Date:	SeqNo:	1916872				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	8.14	1.00						8.140	0		10
Sample ID:	LCS-R107010	SampType:	LCS	Units:	Prep Date:	RunNo:	107010				
Client ID:	ZZZZZ	Batch ID:	R107010		Analysis Date:	SeqNo:	1917259				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	7.02	1.00	7.000	0	100.3	99.1	100.9				

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: M\_SOLIDS\_ICP

Lab Order: 08040620

Report Date: 23-Apr-08

Sample ID: MB-44184	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106971							
Client ID: ZZZZZZ	Batch ID: 44184	SOP 3032	Analysis Date: 4/18/2008	SeqNo: 1916669							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-44184	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106971							
Client ID: ZZZZZZ	Batch ID: 44184	SOP 3032	Analysis Date: 4/18/2008	SeqNo: 1916670							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	220	2.50	200.0	0	110.0	85	115				
Chromium	21.8	1.00	20.00	0	109.2	85	115				
Lead	53.6	4.00	50.00	0	107.3	85	115				

Sample ID: MB-44184	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106990							
Client ID: ZZZZZZ	Batch ID: 44184	SOP 3032	Analysis Date: 4/18/2008	SeqNo: 1918890							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	0.66	1.00	1.000	0	66.0	-100	100				J
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-44184	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106990							
Client ID: ZZZZZZ	Batch ID: 44184	SOP 3032	Analysis Date: 4/18/2008	SeqNo: 1918891							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	21.4	1.00	20.00	0	107.2	85	115				
Lead	51.7	4.00	50.00	0	103.4	85	115				

Sample ID: 08040620-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106990							
Client ID: B-837 (9 ft-10 ft)MS	Batch ID: 44184	SOP 3032	Analysis Date: 4/18/2008	SeqNo: 1918897							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: 08040620-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106990							
Client ID: B-837 (9 ft-10 ft)MS	Batch ID: 44184	SOP 3032	Analysis Date: 4/18/2008	SeqNo: 1918897							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	43.3	1.00	20.00	24.35	94.6	75	125				
Lead	64.8	4.00	50.00	17.93	93.8	75	125				

Sample ID: 08040620-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106990							
Client ID: B-837 (9 ft-10 ft)MS	Batch ID: 44184	SOP 3032	Analysis Date: 4/18/2008	SeqNo: 1918900							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	45.3	1.00	20.00	24.35	104.7	75	125	43.28	4.52	20	
Lead	64.8	4.00	50.00	17.93	93.8	75	125	64.84	0.0154	20	

Sample ID: 08040620-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 107055							
Client ID: B-837 (9 ft-10 ft)MS	Batch ID: 44184	SOP 3032	Analysis Date: 4/21/2008	SeqNo: 1919284							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	201	2.50	200.0	6.370	97.2	75	125				
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Sample ID: 08040620-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 107055							
Client ID: B-837 (9 ft-10 ft)MS	Batch ID: 44184	SOP 3032	Analysis Date: 4/21/2008	SeqNo: 1919652							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	210	2.50	200.0	6.370	101.7	75	125	200.8	4.34	20	
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Sample ID: MB-44184	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 107062							
Client ID: ZZZZZZ	Batch ID: 44184	SOP 3032	Analysis Date: 4/21/2008	SeqNo: 1920574							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	1.3	2.50	2.500	0	52.8	-100	100				J
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Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: LCS-44184	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 107062							
Client ID: ZZZZZZ	Batch ID: 44184	SOP 3032	Analysis Date: 4/21/2008	SeqNo: 1920575							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	210	2.50	200.0	0	104.8	85	115				

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: SV\_8270S\_S\_SIMS

Lab Order: 08040620

Report Date: 23-Apr-08

Sample ID: <b>MB-44144</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/16/2008</b>	RunNo: <b>106944</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44144</b>	<b>SW3550B</b>	Analysis Date: <b>4/17/2008</b>	SeqNo: <b>1914505</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.091		0.1670		54.7	17.5	123				
Surr: Nitrobenzene-d5	0.074		0.1670		44.3	35	105				
Surr: p-Terphenyl-d14	0.122		0.1670		73.1	53.6	122				

Sample ID: <b>LCS-44144</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/16/2008</b>	RunNo: <b>106944</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44144</b>	<b>SW3550B</b>	Analysis Date: <b>4/17/2008</b>	SeqNo: <b>1914506</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.115	0.003	0.1670	0	68.7	56.3	115				
Acenaphthylene	0.127	0.003	0.1670	0	75.9	60.3	143				
Anthracene	0.109	0.003	0.1670	0	65.5	52.1	109				
Benzo(a)anthracene	0.111	0.003	0.1670	0	66.5	52.8	112				
Benzo(a)pyrene	0.108	0.003	0.1670	0	64.4	40.8	127				
Benzo(b)fluoranthene	0.125	0.003	0.1670	0	75.0	50.1	150				
Benzo(g,h,i)perylene	0.114	0.003	0.1670	0	68.2	52.8	145				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040620 Report Date: 23-Apr-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: LCS-44144	SampType: LCS	Units: mg/Kg	Prep Date: 4/16/2008	RunNo: 106944
Client ID: ZZZZZZ	Batch ID: 44144	SW3550B	Analysis Date: 4/17/2008	SeqNo: 1914506

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.129	0.003	0.1670	0	77.1	52	153				
Chrysene	0.120	0.003	0.1670	0	71.6	60.8	128				
Dibenzo(a,h)anthracene	0.115	0.003	0.1670	0	69.1	54.9	150				
Fluoranthene	0.117	0.003	0.1670	0	70.1	58.7	125				
Fluorene	0.118	0.003	0.1670	0	70.4	57.8	125				
Indeno(1,2,3-cd)pyrene	0.114	0.003	0.1670	0	68.2	52	147				
Naphthalene	0.096	0.003	0.1670	0	57.3	54.8	113				
Phenanthrene	0.116	0.003	0.1670	0	69.6	60.4	121				
Pyrene	0.120	0.003	0.1670	0	71.6	57.9	129				
Surr: 2-Fluorobiphenyl	0.115		0.1670		69.1	35.3	113				
Surr: Nitrobenzene-d5	0.103		0.1670		61.7	33.9	108				
Surr: p-Terphenyl-d14	0.126		0.1670		75.4	58.4	122				

Sample ID: 08040620-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106944
Client ID: B-837 (0.5 ft-2.0 ft)M	Batch ID: 44144	SW3550B	Analysis Date: 4/17/2008	SeqNo: 1915682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.139	0.021	0.2032	0	68.4	36	135				
Acenaphthylene	0.247	0.021	0.2032	0.1373	53.8	17.2	167				
Anthracene	0.205	0.021	0.2032	0.1078	48.1	39.3	124				
Benzo(a)anthracene	0.585	0.021	0.2032	0.6641	-39.1	10	183				S
Benzo(a)pyrene	0.678	0.021	0.2032	0.7852	-52.6	10	204				S
Benzo(b)fluoranthene	0.817	0.021	0.2032	0.9864	-83.6	10.6	178				S
Benzo(g,h,i)perylene	0.487	0.021	0.2032	0.5089	-10.8	10	168				S
Benzo(k)fluoranthene	0.407	0.021	0.2032	0.3569	24.8	27.6	181				S
Chrysene	0.590	0.021	0.2032	0.6967	-52.4	10	176				S
Dibenzo(a,h)anthracene	0.243	0.021	0.2032	0.1651	38.5	12.2	156				S
Fluoranthene	0.847	0.021	0.2032	0.9798	-65.2	10	227				S
Fluorene	0.150	0.021	0.2032	0.02015	63.7	35.2	148				S
Indeno(1,2,3-cd)pyrene	0.456	0.021	0.2032	0.4838	-13.5	10	164				S
Naphthalene	0.152	0.021	0.2032	0.05858	46.0	14.7	128				

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: SV\_8270S\_S\_SIMS

Lab Order: 08040620

Report Date: 23-Apr-08

Sample ID: 08040620-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106944							
Client ID: B-837 (0.5 ft-2.0 ft)M	Batch ID: 44144	SW3550B	Analysis Date: 4/17/2008	SeqNo: 1915682							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.388	0.021	0.2032	0.3434	22.1	32.8	143				S
Pyrene	0.767	0.021	0.2032	0.8780	-54.8	10	180				S
Surr: 2-Fluorobiphenyl	0.138		0.2032		67.9	10	131				
Surr: Nitrobenzene-d5	0.120		0.2032		58.9	10	132				
Surr: p-Terphenyl-d14	0.130		0.2032		63.9	30.6	131				

Sample ID: 08040620-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/17/2008	RunNo: 106944							
Client ID: B-837 (0.5 ft-2.0 ft)M	Batch ID: 44144	SW3550B	Analysis Date: 4/17/2008	SeqNo: 1915683							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.160	0.021	0.2057	0	77.6	36	135	0.1389	13.9	49.7	
Acenaphthylene	0.262	0.021	0.2057	0.1373	60.6	17.2	167	0.2466	6.03	33.3	
Anthracene	0.192	0.021	0.2057	0.1078	41.0	39.3	124	0.2055	6.69	51.1	
Benzo(a)anthracene	0.425	0.021	0.2057	0.6641	-116.2	10	183	0.5846	31.6	40.6	S
Benzo(a)pyrene	0.494	0.021	0.2057	0.7852	-141.7	10	204	0.6783	31.5	56.4	S
Benzo(b)fluoranthene	0.600	0.021	0.2057	0.9864	-187.8	10.6	178	0.8166	30.6	49.7	S
Benzo(g,h,i)perylene	0.354	0.021	0.2057	0.5089	-75.4	10	168	0.4870	31.7	36.5	S
Benzo(k)fluoranthene	0.320	0.021	0.2057	0.3569	-18.1	27.6	181	0.4073	24.1	42.6	S
Chrysene	0.467	0.021	0.2057	0.6967	-111.8	10	176	0.5902	23.4	45.1	S
Dibenzo(a,h)anthracene	0.205	0.021	0.2057	0.1651	19.5	12.2	156	0.2434	17.0	39.9	S
Fluoranthene	0.762	0.021	0.2057	0.9798	-105.9	10	227	0.8472	10.6	66.2	S
Fluorene	0.174	0.021	0.2057	0.02015	74.8	35.2	148	0.1497	15.1	65.6	
Indeno(1,2,3-cd)pyrene	0.341	0.021	0.2057	0.4838	-69.6	10	164	0.4564	29.0	36.5	S
Naphthalene	0.155	0.021	0.2057	0.05858	47.0	14.7	128	0.1521	2.01	39.6	
Phenanthrene	0.539	0.021	0.2057	0.3434	95.2	32.8	143	0.3882	32.5	35.4	
Pyrene	0.668	0.021	0.2057	0.8780	-102.1	10	180	0.7667	13.8	60.1	S
Surr: 2-Fluorobiphenyl	0.138		0.2057		66.9	10	131		0	40	
Surr: Nitrobenzene-d5	0.123		0.2057		59.9	10	132		0	40	
Surr: p-Terphenyl-d14	0.142		0.2057		68.9	30.6	131		0	40	

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

TestCode: V\_8260TCLP

Sample ID: LCS-N080418-2	SampType: LCS	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037							
Client ID: ZZZZZZ	Batch ID: 44255	SW5030	Analysis Date: 4/18/2008	SeqNo: 1917617							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0.052	0.002	0.05000	0	104.9	82.7	117				
Surr: 1,2-Dichloroethane-d4	0.056		0.05000		112.4	74.7	129				
Surr: 4-Bromofluorobenzene	0.052		0.05000		103.3	86	119				
Surr: Dibromofluoromethane	0.051		0.05000		101.4	81.7	123				
Surr: Toluene-d8	0.052		0.05000		103.3	84.3	114				

Sample ID: LCS-D-N080418-2	SampType: LCS-D	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037							
Client ID: ZZZZZZ	Batch ID: 44255	SW5030	Analysis Date: 4/18/2008	SeqNo: 1917618							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0.050	0.002	0.05000	0	99.2	82.7	117	0.05245	5.61	20	
Surr: 1,2-Dichloroethane-d4	0.056		0.05000		111.4	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	0.051		0.05000		101.7	86	119		0	0	
Surr: Dibromofluoromethane	0.051		0.05000		101.4	81.7	123		0	0	
Surr: Toluene-d8	0.052		0.05000		103.8	84.3	114		0	0	

Sample ID: MBLK-N080418-2	SampType: MBLK	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037							
Client ID: ZZZZZZ	Batch ID: 44255	SW5030	Analysis Date: 4/18/2008	SeqNo: 1917619							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.002									
Surr: 1,2-Dichloroethane-d4	0.057		0.05000		113.9	74.7	129				
Surr: 4-Bromofluorobenzene	0.057		0.05000		114.0	86	119				
Surr: Dibromofluoromethane	0.051		0.05000		101.2	81.7	123				
Surr: Toluene-d8	0.053		0.05000		105.8	84.3	114				

Sample ID: 08040620-011BMS	SampType: MS	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037							
Client ID: B-802 (8.5 ft-10.0 ft)	Batch ID: 44255	SW5030	Analysis Date: 4/19/2008	SeqNo: 1917621							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08040620 Report Date: 23-Apr-08

TestCode: V\_8260TCLP

Sample ID: 08040620-011BMS	SampType: MS	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037							
Client ID: B-802 (8.5 ft-10.0 ft)	Batch ID: 44255	SW5030	Analysis Date: 4/19/2008	SeqNo: 1917621							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	2.15	0.100	2.200	0.05150	95.4	78.9	109				
Surr: 1,2-Dichloroethane-d4	2.85		2.500		114.0	74.7	129				
Surr: 4-Bromofluorobenzene	2.53		2.500		101.1	86	119				
Surr: Dibromofluoromethane	2.62		2.500		104.6	81.7	123				
Surr: Toluene-d8	2.61		2.500		104.3	84.3	114				

Sample ID: 08040620-011BMSD	SampType: MSD	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037							
Client ID: B-802 (8.5 ft-10.0 ft)	Batch ID: 44255	SW5030	Analysis Date: 4/19/2008	SeqNo: 1917622							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	2.17	0.100	2.200	0.05150	96.1	78.9	109	2.150	0.741	20	
Surr: 1,2-Dichloroethane-d4	2.90		2.500		116.1	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	2.63		2.500		105.1	86	119		0	0	
Surr: Dibromofluoromethane	2.53		2.500		101.2	81.7	123		0	0	
Surr: Toluene-d8	2.64		2.500		105.5	84.3	114		0	0	

Sample ID: 08040620-015BMS	SampType: MS	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037							
Client ID: B-840 (7 ft- 8 ft)MS	Batch ID: 44255	SW5030	Analysis Date: 4/19/2008	SeqNo: 1917624							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	2.12	0.100	2.200	0	96.5	78.9	109				
Surr: 1,2-Dichloroethane-d4	2.85		2.500		114.1	74.7	129				
Surr: 4-Bromofluorobenzene	2.86		2.500		114.2	86	119				
Surr: Dibromofluoromethane	2.50		2.500		100.2	81.7	123				
Surr: Toluene-d8	2.66		2.500		106.4	84.3	114				

Sample ID: 08040620-015BMSD	SampType: MSD	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037							
Client ID: B-840 (7 ft- 8 ft)MSD	Batch ID: 44255	SW5030	Analysis Date: 4/19/2008	SeqNo: 1917625							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_8260TCLP

Sample ID: 08040620-015BM	MSD	SampType: MSD	Units: mg/L	Prep Date: 4/18/2008	RunNo: 107037						
Client ID: B-840 (7 ft- 8 ft)MSD	Batch ID: 44255		SW5030	Analysis Date: 4/19/2008	SeqNo: 1917625						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.11	0.100	2.200	0	96.0	78.9	109	2.122	0.543	20	
Surr: 1,2-Dichloroethane-d4	2.80		2.500		112.1	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	2.90		2.500		115.9	86	119		0	0	
Surr: Dibromofluoromethane	2.54		2.500		101.7	81.7	123		0	0	
Surr: Toluene-d8	2.65		2.500		105.9	84.3	114		0	0	

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Sample ID: LCS-G080417-1	SampType: LCS	Units: µg/Kg	Prep Date: 4/17/2008	RunNo: 106975							
Client ID: ZZZZZZ	Batch ID: 44209	SW5035	Analysis Date: 4/17/2008	SeqNo: 1915959							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	45.6	1.0	50.00	0	91.1	75	123				
Toluene	46.1	5.0	50.00	0	92.1	77.3	117				
Ethylbenzene	47.0	5.0	50.00	0	94.0	80.8	118				
Xylenes, Total	93.8	5.0	100.0	0	93.8	78.5	121				
Surr: 1,2-Dichloroethane-d4	42.8		50.00		85.6	61	128				
Surr: 4-Bromofluorobenzene	49.0		50.00		98.0	78.2	117				
Surr: Dibromofluoromethane	48.2		50.00		96.4	66.6	130				
Surr: Toluene-d8	48.6		50.00		97.3	80.1	122				

Sample ID: LCS-D-G080417-1	SampType: LCS-D	Units: µg/Kg	Prep Date: 4/17/2008	RunNo: 106975							
Client ID: ZZZZZZ	Batch ID: 44209	SW5035	Analysis Date: 4/17/2008	SeqNo: 1915960							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	46.3	1.0	50.00	0	92.7	75	123	45.56	1.70	20	
Toluene	46.9	5.0	50.00	0	93.9	77.3	117	46.06	1.89	20	
Ethylbenzene	47.0	5.0	50.00	0	94.1	80.8	118	47.00	0.0638	20	
Xylenes, Total	94.1	5.0	100.0	0	94.1	78.5	121	93.75	0.362	20	
Surr: 1,2-Dichloroethane-d4	43.1		50.00		86.1	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.3		50.00		98.5	78.2	117		0	0	
Surr: Dibromofluoromethane	48.4		50.00		96.7	66.6	130		0	0	
Surr: Toluene-d8	48.4		50.00		96.9	80.1	122		0	0	

Sample ID: MBLK-G080417-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/17/2008	RunNo: 106975							
Client ID: ZZZZZZ	Batch ID: 44209	SW5035	Analysis Date: 4/17/2008	SeqNo: 1915961							
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									

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08040620

Report Date: 23-Apr-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Sample ID: MBLK-G080417-1

SampType: MBLK

Units: µg/Kg

Prep Date: 4/17/2008

RunNo: 106975

Client ID: ZZZZZZ

Batch ID: 44209

SW5035

Analysis Date: 4/17/2008

SeqNo: 1915961

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	43.2		50.00		86.4	61	128				
Surr: 4-Bromofluorobenzene	49.8		50.00		99.5	78.2	117				
Surr: Dibromofluoromethane	47.4		50.00		94.8	66.6	130				
Surr: Toluene-d8	49.0		50.00		98.0	80.1	122				

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**RECEIVING CHECK LIST****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08040620**Report Date:** 23-Apr-08**Carrier:** Rachael Husen**Received By:** EC**Completed by:****On:**  
16-Apr-08

Erin Clarke

**Reviewed by:****On:**  
16-Apr-08

Elizabeth A. Hurley

Pages to follow: Chain of custody Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 4.4
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input checked="" type="checkbox"/>	NA <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

COC Serial No. **B** 08647

08040620

Project Name: Amoco/IP Campaign Project Mgr.: Derek Ingram  
Project Number: 62403053 Cost Code: 024501  
Sampler(s): L. Hoosier / R. Husin

Laboratory Name: Telelab  
Location: Collinsville IL

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers
			Soil	Water	Air	Wipes	
B-837 (0.5'-2.0')	4-14	0955	X				6
B-837 (9'-10')	4-14	0955	X				6
B-837 (12'-13')	4-14	1045	X				5
B-800 (2'-3')	4-14	1215	X			X	5
B-800 (9'-10')	4-14	1240	X			X	5
B-800 (11.5'-12.5')	4-14	1300	X			X	5
B-839 (2.0'-3.0')	4-14	1725	X			X	6
B-839 (6.0'-7.0')	4-14	1730	X			X	6
B-839 (16.0'-17.0')	4-14	1812	X			X	5

Analyses by Method	Name and Number	Comments (Field PID)	Lab ID #'s
PHH 8270 SWS			
PHH 8260 CB			
Metals *			
Chloride 9014			
TOC 202M			
PH 9045C			

Laboratory Temperature upon Receipt  
4.4°C

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**  Rush  5 Days  STD  Other

Requested TAT: \_\_\_\_\_  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Michael Husin Date 4/16/08 Time 1000

**Received by:** Signature [Signature] Date 4/16/08 Time 1000



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

09040620

COC Serial No. **B** 08648

Project Name: AnchorUP Champaign Project Mgr.: Derek Ingram

Project Number: 0240053 Cost Code: 024501

Sampler(s): L. Housier / R. Huson

Laboratory Name: TK Lab

Location: Collinsville IL

Sample Number and (depth)

Date

Time

Total Number of Containers

Analyses by Method Name and Number

Matrix  
Soil  
Water  
Air  
Wipes  
Other \*

BTX 826.0B  
PAH 827.0Sims  
Metals \*  
Cyanide  
FIC 12974-87  
TCLP Benzene  
TCLP Benzene

Laboratory Temperature upon Receipt  
4.4 ice

Sample Number and (depth)	Date	Time	Soil	Water	Air	Wipes	Other *	Total Number of Containers	Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
B-802 (2.0-3.0')	4/15	0850	X					5	BTX 826.0B PAH 827.0Sims Metals * Cyanide FIC 12974-87 TCLP Benzene TCLP Benzene	08040020	
B-802 (8.5-10.0')	4/15	0915	X					9		*Metals - arsenic, chromium, lead	
B-802 (14.5-15.5')	4/15	0950	X					9			
B-802 (25'-26')	4/15	1020	X					5			
B-840 (1'-2')	4/15	1050	X					5		Cyanide-total and amendable	
B-840 (7'-8')	4/15	1115	X					5			
B-840 (18'-19')	4/15	1145	X					5			

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

Volatile Organics ..... Hydrochloric acid (HCl)

VOC Soil (5035) ..... Sodium Bisulfate/Methanol

TPH ..... Hydrochloric acid and/or Sulfuric acid

Metals ..... Nitric acid (HNO<sub>3</sub>)

Cyanide ..... Sodium hydroxide (NaOH)

Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Richard Huson Date 4/14/08 Time 1000

**Received by:** Signature [Signature] Date 4/16/08 Time 1000

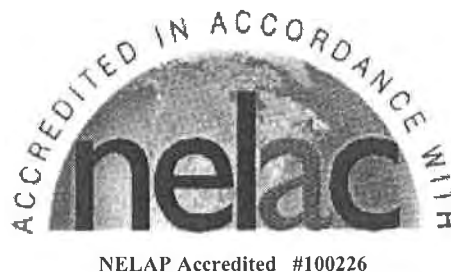
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

May 16, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08050396

Dear Derek Ingram:

TEKLAB, INC received 1 sample on 4/16/2008 10:00:00 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 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. White  
Project Manager  
(618)344-1004 ex.20



---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050396

**Report Date:** 16-May-08

---

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08050396-001	B-802 (8.5-10.0 ft)	1	4/15/2008 9:15:00 AM

---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08050396

**Report Date:** 16-May-08

**Cooler Receipt Temp:** °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Additional analysis requested on WO #08040620.

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050396  
**Lab ID:** 08050396-001  
**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-802 (8.5-10.0 ft)  
**Collection Date:** 4/15/2008 9:15:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</u></b>								
Arsenic	NELAP	0.250		< 0.250	mg/L	1	5/14/2008 11:09:50 AM	LAL
Barium	NELAP	0.0500		1.20	mg/L	1	5/14/2008 11:09:50 AM	LAL
Cadmium	NELAP	0.0200		< 0.0200	mg/L	1	5/14/2008 11:09:50 AM	LAL
Chromium	NELAP	0.100		< 0.100	mg/L	1	5/14/2008 11:09:50 AM	LAL
Lead	NELAP	0.400		< 0.400	mg/L	1	5/14/2008 11:09:50 AM	LAL
Selenium	NELAP	0.500		< 0.500	mg/L	1	5/14/2008 11:09:50 AM	LAL
Silver	NELAP	0.100		< 0.100	mg/L	1	5/14/2008 11:09:50 AM	LAL
<b><u>SW-846 1311, 7470A IN TCLP EXTRACT</u></b>								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	5/16/2008	JMW

**Sample Narrative**

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050396

**Report Date:** 16-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050396-001A	B-802 (8.5-10.0 ft)	4/15/2008	Solid	SW-846 1311, 3010A, 6010B, Metals in TCLP Extract by ICP	5/13/2008	5/14/2008
				SW-846 1311, 7470A in TCLP Extract	5/15/2008	5/16/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level
	<b>C</b> - Client requested RL below PQL
	<b>D</b> - Diluted out of sample
	<b>IDPH</b> - IL Dept. of Public Health
	<b>Q</b> - QC criteria failed
	<b>#</b> - Unknown hydrocarbon
	<b>MI</b> - Matrix interference
	<b>DNI</b> - Did not ignite
	<b>E</b> - Value above quantitation range
	<b>H</b> - Holding time exceeded
	<b>NELAP</b> - IL ELAP and NELAP Accredited

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050396      Report Date: 16-May-08

TestCode: M\_HG\_TCLP

Sample ID: MB-44721	SampType: MBLK	Units: mg/L	Prep Date: 5/15/2008	RunNo: 108221							
Client ID: ZZZZZZ	Batch ID: 44721	SOP 3062	Analysis Date: 5/16/2008	SeqNo: 1949355							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	<0.00020	0.00020	0.00020000	0	0	-100	100				

Sample ID: LCS-44721	SampType: LCS	Units: mg/L	Prep Date: 5/15/2008	RunNo: 108221							
Client ID: ZZZZZZ	Batch ID: 44721	SOP 3062	Analysis Date: 5/16/2008	SeqNo: 1949356							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00487	0.00020	0.005000	0	97.4	85	115				

Sample ID: 08050396-001AMS	SampType: MS	Units: mg/L	Prep Date: 5/15/2008	RunNo: 108221							
Client ID: B-802 (8.5-10.0 ft)M	Batch ID: 44721	SOP 3062	Analysis Date: 5/16/2008	SeqNo: 1949398							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00486	0.00020	0.005000	0	97.2	75	125				

Sample ID: 08050396-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 5/15/2008	RunNo: 108221							
Client ID: B-802 (8.5-10.0 ft)M	Batch ID: 44721	SOP 3062	Analysis Date: 5/16/2008	SeqNo: 1949399							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00507	0.00020	0.005000	0	101.4	75	125	0.004860	4.23		15

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050396 Report Date: 16-May-08

TestCode: M\_TCLP\_ICP

Sample ID: MB-44825	SampType: MBLK	Units: mg/L	Prep Date: 5/13/2008	RunNo: 108105							
Client ID: ZZZZZZ	Batch ID: 44825	SW1311	Analysis Date: 5/14/2008	SeqNo: 1946457							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.250	0.250	0.2500	0	0	-100	100				
Barium	< 0.0500	0.0500	0.05000	0	0	-100	100				
Cadmium	< 0.0200	0.0200	0.02000	0	0	-100	100				
Chromium	< 0.100	0.100	0.1000	0	0	-100	100				
Lead	< 0.400	0.400	0.4000	0	0	-100	100				
Selenium	0.24	0.500	0.5000	0	47.0	-100	100				J
Silver	< 0.100	0.100	0.1000	0	0	-100	100				

Sample ID: LCS-44825	SampType: LCS	Units: mg/L	Prep Date: 5/13/2008	RunNo: 108105							
Client ID: ZZZZZZ	Batch ID: 44825	SW1311	Analysis Date: 5/14/2008	SeqNo: 1946458							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.4	0.250	20.00	0	107.1	85	115				
Barium	21.2	0.0500	20.00	0	106.0	85	115				
Cadmium	0.518	0.0200	0.5000	0	103.6	85	115				
Chromium	2.08	0.100	2.000	0	104.0	85	115				
Lead	5.02	0.400	5.000	0	100.4	85	115				
Selenium	22.1	0.500	20.00	0	110.7	85	115				
Silver	0.487	0.100	0.5000	0	97.4	85	115				

Sample ID: 08050396-001AMS	SampType: MS	Units: mg/L	Prep Date: 5/13/2008	RunNo: 108105							
Client ID: B-802 (8.5-10.0 ft)M	Batch ID: 44825	SW1311	Analysis Date: 5/14/2008	SeqNo: 1946462							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.9	0.250	20.00	0	104.4	75	125				
Barium	21.4	0.0500	20.00	1.196	101.0	75	125				
Cadmium	0.502	0.0200	0.5000	0	100.4	75	125				
Chromium	2.06	0.100	2.000	0	103.2	75	125				
Lead	4.82	0.400	5.000	0	96.3	75	125				
Selenium	21.3	0.500	20.00	0	106.6	75	125				

Client: Phillip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050396

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_TCLP\_ICP

Sample ID: 08050396-001AMS	SampType: MS	Units: mg/L	Prep Date: 5/13/2008	RunNo: 108105							
Client ID: B-802 (8.5-10.0 ft)M	Batch ID: 44825	SW1311	Analysis Date: 5/14/2008	SeqNo: 1946462							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.468	0.100	0.5000	0	93.6	75	125				

Sample ID: 08050396-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 5/13/2008	RunNo: 108105							
Client ID: B-802 (8.5-10.0 ft)M	Batch ID: 44825	SW1311	Analysis Date: 5/14/2008	SeqNo: 1946463							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.3	0.250	20.00	0	106.3	75	125	20.89	1.76	20	
Barium	21.6	0.0500	20.00	1.196	102.1	75	125	21.40	0.977	20	
Cadmium	0.514	0.0200	0.5000	0	102.8	75	125	0.5020	2.36	20	
Chromium	2.11	0.100	2.000	0	105.4	75	125	2.063	2.21	20	
Lead	4.91	0.400	5.000	0	98.2	75	125	4.817	1.93	20	
Selenium	22.1	0.500	20.00	0	110.6	75	125	21.32	3.68	20	
Silver	0.462	0.100	0.5000	0	92.4	75	125	0.4680	1.29	20	



08050396

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 08050396

TEKLAB, INC  
5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
TEL: (618) 344-1004  
FAX: (618) 344-1005

Client: Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120  
Project: A831-735002-012901-225/I  
09-May-08

Sample ID	ClientSampleID	Matrix	Date Collected	Bottle	Requested Tests	
					SW1311/6010	SW1311/7470
08050396-001	B-802 (8.5-10 ft)	Solid	4/15/2008 9:15:00 AM		B	A
					A	A

Comments: data in excel Per Derek Ingram, additional analysis requested on WO# 08040620. HAW 5/9/08

Relinquished by:	Date/Time
Relinquished by:	Received by: <i>Mervin S. Stanley Jr</i>
Relinquished by:	Received by:
	Received by:
	Date/Time: 5/9/08

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

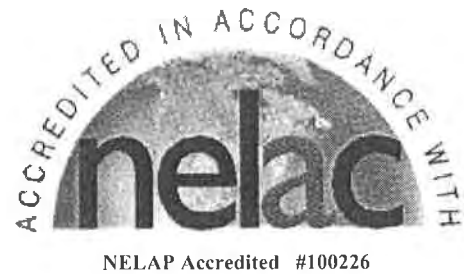
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

May 16, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08050415

Dear Derek Ingram:

TEKLAB, INC received 40 samples on 5/9/2008 5:20:00 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 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,

A handwritten signature in black ink that reads 'Heather A. White'.

Heather A. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**SAMPLE SUMMARY****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08050415**Report Date:** 16-May-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08050415-001	B-812 1.0-2.0 ft	4	5/5/2008 4:10:00 PM
08050415-002	B-812 9.0-10.0 ft	4	5/5/2008 4:25:00 PM
08050415-003	B-812 11.0-12.0 ft	4	5/5/2008 4:42:00 PM
08050415-004	B-811 2.0-3.0 ft	4	5/5/2008 5:15:00 PM
08050415-005	B-811 9.0-10.0 ft	4	5/5/2008 5:23:00 PM
08050415-006	B-811 11.0-12.0 ft	4	5/5/2008 5:43:00 PM
08050415-007	B-843 2.0-3.0 ft	4	5/6/2008 9:24:00 AM
08050415-008	B-843 7.0-8.0 ft	4	5/6/2008 9:35:00 AM
08050415-009	B-843 10.0-11.0 ft	4	5/6/2008 9:47:00 AM
08050415-010	B-844 1.0-2.0 ft	4	5/6/2008 12:47:00 PM
08050415-011	B-844 8.0-9.0 ft	4	5/6/2008 1:05:00 PM
08050415-012	B-844 15.0-16.0 ft	4	5/6/2008 1:40:00 PM
08050415-013	B-851 19.0-20.0 ft	4	5/9/2008 10:20:00 AM
08050415-014	B-852 2.0-3.0 ft	4	5/9/2008 11:11:00 AM
08050415-015	B-852 9.0-10.0 ft	4	5/9/2008 11:25:00 AM
08050415-016	B-852 23.0-24.0 ft	4	5/9/2008 11:42:00 AM
08050415-017	B-845 6.0-7.0 ft	4	5/6/2008 2:45:00 PM
08050415-018	B-845 13.0-14.0 ft	4	5/6/2008 3:00:00 PM
08050415-019	B-846 8.5-9.5 ft	4	5/7/2008 8:55:00 AM
08050415-020	B-846 10.0-11.0 ft	4	5/7/2008 9:30:00 AM
08050415-021	B-846 20.0-21.0 ft	4	5/7/2008 9:54:00 AM
08050415-022	B-803 2.0-3.0 ft	4	5/7/2008 10:07:00 AM
08050415-023	B-803 9.0-10.0 ft	4	5/7/2008 10:20:00 AM
08050415-024	B-803 21.0-22.0 ft	4	5/7/2008 10:41:00 AM
08050415-025	B-803 29.0-30.0 ft	4	5/7/2008 10:55:00 AM
08050415-026	B-849 0.0-1.0 ft	4	5/7/2008 11:25:00 AM
08050415-027	B-849 9.0-10.0 ft	4	5/7/2008 11:35:00 AM
08050415-028	B-849 16.0-17.0 ft	4	5/7/2008 11:55:00 AM
08050415-029	B-848 2.0-3.0 ft	4	5/7/2008 3:45:00 PM
08050415-030	B-848 9.0-10.0 ft	4	5/7/2008 3:55:00 PM
08050415-031	B-848 13.0-14.0 ft	4	5/7/2008 4:10:00 PM
08050415-032	B-847 6.0-7.0 ft	4	5/7/2008 4:47:00 PM
08050415-033	B-847 22.0-23.0 ft	4	5/7/2008 5:18:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050415

**Report Date:** 16-May-08

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Lab Sample ID	Client Sample ID	Fractions	Collection Date
08050415-034	B-809 2.0-3.0 ft	4	5/8/2008 9:45:00 AM
08050415-035	B-809 9.0-10.0 ft	4	5/8/2008 9:58:00 AM
08050415-036	B-809 15.0-16.0 ft	4	5/8/2008 10:15:00 AM
08050415-037	B-847 29.0-30.0 ft	4	5/7/2008 5:30:00 PM
08050415-038	B-850 8.0-9.0 ft	4	5/8/2008 11:30:00 AM
08050415-039	B-850 16.0-17.0 ft	4	5/8/2008 12:05:00 PM
08050415-040	B-850 25.0-26.0 ft	4	5/8/2008 12:55:00 PM

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08050415

**Report Date:** 16-May-08

**Cooler Receipt Temp:** 4.6 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-812 1.0-2.0 ft

Lab ID: 08050415-001

Collection Date: 5/5/2008 4:10:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		24.5	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		75.5	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.005		ND	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Acenaphthylene	NELAP	0.005		ND	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Anthracene	NELAP	0.005		ND	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Benzo(a)anthracene	NELAP	0.005		0.008	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Benzo(a)pyrene	NELAP	0.005		0.008	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.005		0.011	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.005		0.007	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.005		ND	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Chrysene	NELAP	0.005		0.006	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.005		ND	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Fluoranthene	NELAP	0.005		0.007	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Fluorene	NELAP	0.005		ND	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.005		0.005	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Naphthalene	NELAP	0.005		ND	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Phenanthrene	NELAP	0.005		ND	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Pyrene	NELAP	0.005		0.008	mg/Kg-dry	1	5/14/2008 10:34:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		57.7	%REC	1	5/14/2008 10:34:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		61.9	%REC	1	5/14/2008 10:34:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.7	%REC	1	5/14/2008 10:34:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	5/13/2008 5:30:00 AM	JSA
Ethylbenzene	NELAP	5.7		ND	µg/Kg-dry	1	5/13/2008 5:30:00 AM	JSA
Toluene	NELAP	5.7	J	1.4	µg/Kg-dry	1	5/13/2008 5:30:00 AM	JSA
Xylenes, Total	NELAP	5.7		ND	µg/Kg-dry	1	5/13/2008 5:30:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		87.3	%REC	1	5/13/2008 5:30:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.3	%REC	1	5/13/2008 5:30:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		98.0	%REC	1	5/13/2008 5:30:00 AM	JSA
Surr: Toluene-d8		80.1-122		98.3	%REC	1	5/13/2008 5:30:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-812 9.0-10.0 ft

Lab ID: 08050415-002

Collection Date: 5/5/2008 4:25:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.7	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.3	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:10:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		60.7	%REC	1	5/14/2008 11:10:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		61.3	%REC	1	5/14/2008 11:10:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.7	%REC	1	5/14/2008 11:10:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		3.0	µg/Kg-dry	1	5/13/2008 5:59:00 AM	JSA
Ethylbenzene	NELAP	4.8	J	2.1	µg/Kg-dry	1	5/13/2008 5:59:00 AM	JSA
Toluene	NELAP	4.8		7.1	µg/Kg-dry	1	5/13/2008 5:59:00 AM	JSA
Xylenes, Total	NELAP	4.8		5.0	µg/Kg-dry	1	5/13/2008 5:59:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		72.0	%REC	1	5/13/2008 5:59:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		97.6	%REC	1	5/13/2008 5:59:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		85.6	%REC	1	5/13/2008 5:59:00 AM	JSA
Surr: Toluene-d8		80.1-122		104.7	%REC	1	5/13/2008 5:59:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050415  
**Lab ID:** 08050415-003  
**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-812 11.0-12.0 ft  
**Collection Date:** 5/5/2008 4:42:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		15.3	%	1	5/12/2008	TWW
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		84.7	%	1	5/12/2008	TWW
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:02:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		48.5	%REC	1	5/15/2008 2:02:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		51.9	%REC	1	5/15/2008 2:02:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		59.5	%REC	1	5/15/2008 2:02:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.3	µg/Kg-dry	1	5/13/2008 6:28:00 AM	JSA
Ethylbenzene	NELAP	4.6	J	1.6	µg/Kg-dry	1	5/13/2008 6:28:00 AM	JSA
Toluene	NELAP	4.6		4.6	µg/Kg-dry	1	5/13/2008 6:28:00 AM	JSA
Xylenes, Total	NELAP	4.6	J	3.6	µg/Kg-dry	1	5/13/2008 6:28:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		85.1	%REC	1	5/13/2008 6:28:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.2	%REC	1	5/13/2008 6:28:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		96.8	%REC	1	5/13/2008 6:28:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.7	%REC	1	5/13/2008 6:28:00 AM	JSA

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-811 2.0-3.0 ft

Lab ID: 08050415-004

Collection Date: 5/5/2008 5:15:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.1	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.9	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.27		2.81	mg/Kg-dry	1	5/14/2008 7:32:30 PM	LAL
Chromium	NELAP	0.91		20.0	mg/Kg-dry	1	5/14/2008 7:32:30 PM	LAL
Lead	NELAP	3.64		16.8	mg/Kg-dry	1	5/15/2008 5:35:14 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.012	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Anthracene	NELAP	0.004		0.020	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.073	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.083	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.102	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.047	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.035	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Chrysene	NELAP	0.004		0.080	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.014	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Fluoranthene	NELAP	0.004		0.127	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Fluorene	NELAP	0.004		0.005	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.046	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Naphthalene	NELAP	0.004		0.004	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Phenanthrene	NELAP	0.004		0.055	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Pyrene	NELAP	0.004		0.105	mg/Kg-dry	1	5/15/2008 3:56:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.5	%REC	1	5/15/2008 3:56:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		57.1	%REC	1	5/15/2008 3:56:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.1	%REC	1	5/15/2008 3:56:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		3.6	µg/Kg-dry	1	5/13/2008 8:23:00 PM	GEK
Ethylbenzene	NELAP	5.5	J	2.2	µg/Kg-dry	1	5/13/2008 8:23:00 PM	GEK
Toluene	NELAP	5.5		7.3	µg/Kg-dry	1	5/13/2008 8:23:00 PM	GEK
Xylenes, Total	NELAP	5.5		7.6	µg/Kg-dry	1	5/13/2008 8:23:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		115.7	%REC	1	5/13/2008 8:23:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117	S	73.2	%REC	1	5/13/2008 8:23:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		109.3	%REC	1	5/13/2008 8:23:00 PM	GEK
Surr: Toluene-d8		80.1-122		117.4	%REC	1	5/13/2008 8:23:00 PM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.63	J	0.32	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050415**Lab ID:** 08050415-004**Report Date:** 16-May-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-811 2.0-3.0 ft**Collection Date:** 5/5/2008 5:15:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u>								
Cyanide, Amenable to Chlorination		0.63		< 0.63	mg/Kg-dry	1	5/14/2008	AET

**Sample Narrative**

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-811 9.0-10.0 ft

Lab ID: 08050415-005

Collection Date: 5/5/2008 5:23:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.3	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.7	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		6.47	mg/Kg-dry	1	5/14/2008 7:39:17 PM	LAL
Chromium	NELAP	1.00		15.1	mg/Kg-dry	1	5/14/2008 7:39:17 PM	LAL
Lead	NELAP	4.00		10.0	mg/Kg-dry	1	5/15/2008 5:39:25 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.008	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.017	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 2:39:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		35.3	%REC	1	5/15/2008 2:39:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		40.1	%REC	1	5/15/2008 2:39:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		54.9	%REC	1	5/15/2008 2:39:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		ND	µg/Kg-dry	1	5/13/2008 6:58:00 AM	JSA
Ethylbenzene	NELAP	4.2		ND	µg/Kg-dry	1	5/13/2008 6:58:00 AM	JSA
Toluene	NELAP	4.2		ND	µg/Kg-dry	1	5/13/2008 6:58:00 AM	JSA
Xylenes, Total	NELAP	4.2		ND	µg/Kg-dry	1	5/13/2008 6:58:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		89.2	%REC	1	5/13/2008 6:58:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		101.7	%REC	1	5/13/2008 6:58:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		98.6	%REC	1	5/13/2008 6:58:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.7	%REC	1	5/13/2008 6:58:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.60	J	0.25	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-005

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-811 9.0-10.0 ft

**Collection Date:** 5/5/2008 5:23:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.60		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-006

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-811 11.0-12.0 ft

Collection Date: 5/5/2008 5:43:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.6	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.4	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		6.43	mg/Kg-dry	1	5/14/2008 7:46:04 PM	LAL
Chromium	NELAP	0.96		14.4	mg/Kg-dry	1	5/14/2008 7:46:04 PM	LAL
Lead	NELAP	3.85		10.1	mg/Kg-dry	1	5/15/2008 5:43:38 PM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:11:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		31.9	%REC	1	5/14/2008 4:11:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		48.3	%REC	1	5/14/2008 4:11:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		62.7	%REC	1	5/14/2008 4:11:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		2.5	µg/Kg-dry	1	5/13/2008 7:27:00 AM	JSA
Ethylbenzene	NELAP	4.2	J	1.4	µg/Kg-dry	1	5/13/2008 7:27:00 AM	JSA
Toluene	NELAP	4.2		4.5	µg/Kg-dry	1	5/13/2008 7:27:00 AM	JSA
Xylenes, Total	NELAP	4.2	J	3.2	µg/Kg-dry	1	5/13/2008 7:27:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		88.3	%REC	1	5/13/2008 7:27:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117	S	77.3	%REC	1	5/13/2008 7:27:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		107.2	%REC	1	5/13/2008 7:27:00 AM	JSA
Surr: Toluene-d8		80.1-122		89.1	%REC	1	5/13/2008 7:27:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.57		< 0.57	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050415**Lab ID:** 08050415-006**Report Date:** 16-May-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-811 11.0-12.0 ft**Collection Date:** 5/5/2008 5:43:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.57		Interference	mg/Kg-dry	1	5/14/2008	AET

**Sample Narrative**

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-007

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-843 2.0-3.0 ft

Collection Date: 5/6/2008 9:24:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.5	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.5	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		3.16	mg/Kg-dry	1	5/14/2008 8:06:21 PM	LAL
Chromium	NELAP	1.00		27.0	mg/Kg-dry	1	5/14/2008 8:06:21 PM	LAL
Lead	NELAP	4.00		27.3	mg/Kg-dry	1	5/16/2008 9:05:23 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 4:47:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		43.5	%REC	1	5/14/2008 4:47:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		54.9	%REC	1	5/14/2008 4:47:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.9	%REC	1	5/14/2008 4:47:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		ND	µg/Kg-dry	1	5/13/2008 7:57:00 AM	JSA
Ethylbenzene	NELAP	5.5		ND	µg/Kg-dry	1	5/13/2008 7:57:00 AM	JSA
Toluene	NELAP	5.5		ND	µg/Kg-dry	1	5/13/2008 7:57:00 AM	JSA
Xylenes, Total	NELAP	5.5		ND	µg/Kg-dry	1	5/13/2008 7:57:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		89.0	%REC	1	5/13/2008 7:57:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		103.9	%REC	1	5/13/2008 7:57:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		101.9	%REC	1	5/13/2008 7:57:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.8	%REC	1	5/13/2008 7:57:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.60		< 0.60	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-007

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-843 2.0-3.0 ft

**Collection Date:** 5/6/2008 9:24:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.60		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-008

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-843 7.0-8.0 ft

Collection Date: 5/6/2008 9:35:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.2	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.8	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		6.42	mg/Kg-dry	1	5/14/2008 8:13:28 PM	LAL
Chromium	NELAP	1.00		14.0	mg/Kg-dry	1	5/14/2008 8:13:28 PM	LAL
Lead	NELAP	4.00		9.48	mg/Kg-dry	1	5/16/2008 9:07:39 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:22:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		28.5	%REC	1	5/14/2008 5:22:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		41.3	%REC	1	5/14/2008 5:22:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.9	%REC	1	5/14/2008 5:22:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		3.1	µg/Kg-dry	1	5/13/2008 8:25:00 AM	JSA
Ethylbenzene	NELAP	3.8	J	2.8	µg/Kg-dry	1	5/13/2008 8:25:00 AM	JSA
Toluene	NELAP	3.8		6.1	µg/Kg-dry	1	5/13/2008 8:25:00 AM	JSA
Xylenes, Total	NELAP	3.8		4.4	µg/Kg-dry	1	5/13/2008 8:25:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		82.2	%REC	1	5/13/2008 8:25:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		98.4	%REC	1	5/13/2008 8:25:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		96.0	%REC	1	5/13/2008 8:25:00 AM	JSA
Surr: Toluene-d8		80.1-122		100.3	%REC	1	5/13/2008 8:25:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.55		< 0.55	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-008

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-843 7.0-8.0 ft

**Collection Date:** 5/6/2008 9:35:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u>								
Cyanide, Amenable to Chlorination		0.55		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-009

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-843 10.0-11.0 ft

Collection Date: 5/6/2008 9:47:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.5	%	1	5/12/2008	TWV
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.5	%	1	5/12/2008	TWV
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.004	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Anthracene	NELAP	0.004		0.004	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.011	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.008	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.011	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.005	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Chrysene	NELAP	0.004		0.008	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Fluoranthene	NELAP	0.004		0.021	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Naphthalene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Phenanthrene	NELAP	0.004		0.020	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Pyrene	NELAP	0.004		0.016	mg/Kg-dry	1	5/14/2008 5:58:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		34.9	%REC	1	5/14/2008 5:58:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		49.3	%REC	1	5/14/2008 5:58:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.5	%REC	1	5/14/2008 5:58:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.6	µg/Kg-dry	1	5/13/2008 8:54:00 AM	JSA
Ethylbenzene	NELAP	4.4	J	1.8	µg/Kg-dry	1	5/13/2008 8:54:00 AM	JSA
Toluene	NELAP	4.4		5.9	µg/Kg-dry	1	5/13/2008 8:54:00 AM	JSA
Xylenes, Total	NELAP	4.4		4.4	µg/Kg-dry	1	5/13/2008 8:54:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		81.8	%REC	1	5/13/2008 8:54:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		91.1	%REC	1	5/13/2008 8:54:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		98.7	%REC	1	5/13/2008 8:54:00 AM	JSA
Surr: Toluene-d8		80.1-122		97.8	%REC	1	5/13/2008 8:54:00 AM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-010

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-844 1.0-2.0 ft

Collection Date: 5/6/2008 12:47:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.8	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.2	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.31		9.60	mg/Kg-dry	1	5/14/2008 8:20:17 PM	LAL
Chromium	NELAP	0.93		20.2	mg/Kg-dry	1	5/14/2008 8:20:17 PM	LAL
Lead	NELAP	3.70		150	mg/Kg-dry	1	5/16/2008 9:09:55 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.009		ND	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Acenaphthylene	NELAP	0.009		0.035	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Anthracene	NELAP	0.009		0.026	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Benzo(a)anthracene	NELAP	0.009		0.119	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Benzo(a)pyrene	NELAP	0.009		0.135	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.009		0.169	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.009		0.084	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.009		0.060	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Chrysene	NELAP	0.009		0.144	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.009		0.023	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Fluoranthene	NELAP	0.009		0.230	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Fluorene	NELAP	0.009		0.012	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.009		0.077	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Naphthalene	NELAP	0.009		0.011	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Phenanthrene	NELAP	0.009		0.162	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Pyrene	NELAP	0.009		0.232	mg/Kg-dry	2	5/15/2008 8:06:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		47.1	%REC	2	5/15/2008 8:06:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		50.3	%REC	2	5/15/2008 8:06:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		56.7	%REC	2	5/15/2008 8:06:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		ND	µg/Kg-dry	1	5/13/2008 9:23:00 AM	JSA
Ethylbenzene	NELAP	6.0		ND	µg/Kg-dry	1	5/13/2008 9:23:00 AM	JSA
Toluene	NELAP	6.0		ND	µg/Kg-dry	1	5/13/2008 9:23:00 AM	JSA
Xylenes, Total	NELAP	6.0		ND	µg/Kg-dry	1	5/13/2008 9:23:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		92.9	%REC	1	5/13/2008 9:23:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		96.5	%REC	1	5/13/2008 9:23:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		104.9	%REC	1	5/13/2008 9:23:00 AM	JSA
Surr: Toluene-d8		80.1-122		96.8	%REC	1	5/13/2008 9:23:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.60	J	0.51	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-010

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-844 1.0-2.0 ft

**Collection Date:** 5/6/2008 12:47:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.60		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-011

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-844 8.0-9.0 ft

Collection Date: 5/6/2008 1:05:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.3	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.7	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		6.35	mg/Kg-dry	1	5/14/2008 8:39:50 PM	LAL
Chromium	NELAP	1.00		14.0	mg/Kg-dry	1	5/14/2008 8:39:50 PM	LAL
Lead	NELAP	4.00		9.77	mg/Kg-dry	1	5/16/2008 9:12:12 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.014	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.020	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.028	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.024	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.014	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Chrysene	NELAP	0.004		0.018	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Fluoranthene	NELAP	0.004		0.016	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Pyrene	NELAP	0.004		0.039	mg/Kg-dry	1	5/14/2008 6:33:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		22.0	%REC	1	5/14/2008 6:33:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		37.3	%REC	1	5/14/2008 6:33:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		66.7	%REC	1	5/14/2008 6:33:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		3.1	µg/Kg-dry	1	5/13/2008 9:52:00 AM	JSA
Ethylbenzene	NELAP	4.5		7.9	µg/Kg-dry	1	5/13/2008 9:52:00 AM	JSA
Toluene	NELAP	4.5		5.5	µg/Kg-dry	1	5/13/2008 9:52:00 AM	JSA
Xylenes, Total	NELAP	4.5		11.1	µg/Kg-dry	1	5/13/2008 9:52:00 AM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		91.0	%REC	1	5/13/2008 9:52:00 AM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		100.1	%REC	1	5/13/2008 9:52:00 AM	JSA
Surr: Dibromofluoromethane		66.6-130		100.8	%REC	1	5/13/2008 9:52:00 AM	JSA
Surr: Toluene-d8		80.1-122		98.6	%REC	1	5/13/2008 9:52:00 AM	JSA
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.56		< 0.56	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-011

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-844 8.0-9.0 ft

**Collection Date:** 5/6/2008 1:05:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.56		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-012

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-844 15.0-16.0 ft

Collection Date: 5/6/2008 1:40:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.9	%	1	5/12/2008	TWN
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.1	%	1	5/12/2008	TWN
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.039		2.49	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Acenaphthylene	NELAP	0.039		0.684	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Anthracene	NELAP	0.039		1.81	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Benzo(a)anthracene	NELAP	0.039		0.893	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Benzo(a)pyrene	NELAP	0.039		0.847	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.039		0.662	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.039		0.325	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.039		0.195	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Chrysene	NELAP	0.039		0.913	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.039		0.089	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Fluoranthene	NELAP	0.039		1.88	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Fluorene	NELAP	0.039		1.70	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.039		0.266	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Naphthalene	NELAP	0.039		12.7	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Phenanthrene	NELAP	0.039		6.07	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Pyrene	NELAP	0.039		2.71	mg/Kg-dry	10	5/15/2008 5:10:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		49.9	%REC	10	5/15/2008 5:10:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		49.9	%REC	10	5/15/2008 5:10:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		61.9	%REC	10	5/15/2008 5:10:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	87.3		640	µg/Kg-dry	50	5/14/2008 8:41:00 PM	GEK
Ethylbenzene	NELAP	436		3070	µg/Kg-dry	50	5/14/2008 8:41:00 PM	GEK
Toluene	NELAP	436	J	250	µg/Kg-dry	50	5/14/2008 8:41:00 PM	GEK
Xylenes, Total	NELAP	436		4200	µg/Kg-dry	50	5/14/2008 8:41:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		95.8	%REC	50	5/14/2008 8:41:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		96.8	%REC	50	5/14/2008 8:41:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		103.0	%REC	50	5/14/2008 8:41:00 PM	GEK
Surr: Toluene-d8		80.1-122		96.5	%REC	50	5/14/2008 8:41:00 PM	GEK

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-013

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-851 19.0-20.0 ft

Collection Date: 5/9/2008 10:20:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.7	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.3	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:15:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		25.7	%REC	1	5/15/2008 3:15:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		41.9	%REC	1	5/15/2008 3:15:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		57.1	%REC	1	5/15/2008 3:15:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		1.4	µg/Kg-dry	1	5/12/2008 11:56:00 PM	GEK
Ethylbenzene	NELAP	3.8		ND	µg/Kg-dry	1	5/12/2008 11:56:00 PM	GEK
Toluene	NELAP	3.8	J	2.1	µg/Kg-dry	1	5/12/2008 11:56:00 PM	GEK
Xylenes, Total	NELAP	3.8	J	2.6	µg/Kg-dry	1	5/12/2008 11:56:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		106.9	%REC	1	5/12/2008 11:56:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		86.2	%REC	1	5/12/2008 11:56:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		107.4	%REC	1	5/12/2008 11:56:00 PM	GEK
Surr: Toluene-d8		80.1-122		111.8	%REC	1	5/12/2008 11:56:00 PM	GEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-014

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-852 2.0-3.0 ft

Collection Date: 5/9/2008 11:11:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.2	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.8	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		4.62	mg/Kg-dry	1	5/14/2008 8:46:38 PM	LAL
Chromium	NELAP	0.96		23.5	mg/Kg-dry	1	5/14/2008 8:46:38 PM	LAL
Lead	NELAP	3.85		51.9	mg/Kg-dry	1	5/16/2008 9:14:29 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.005	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.020	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.023	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.032	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.015	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.011	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Chrysene	NELAP	0.004		0.023	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.004	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Fluoranthene	NELAP	0.004		0.036	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.014	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Phenanthrene	NELAP	0.004		0.016	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Pyrene	NELAP	0.004		0.032	mg/Kg-dry	1	5/15/2008 5:47:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		37.9	%REC	1	5/15/2008 5:47:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		49.7	%REC	1	5/15/2008 5:47:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		62.1	%REC	1	5/15/2008 5:47:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		1.2	µg/Kg-dry	1	5/13/2008 12:25:00 AM	GEK
Ethylbenzene	NELAP	5.6		ND	µg/Kg-dry	1	5/13/2008 12:25:00 AM	GEK
Toluene	NELAP	5.6		ND	µg/Kg-dry	1	5/13/2008 12:25:00 AM	GEK
Xylenes, Total	NELAP	5.6	J	1.7	µg/Kg-dry	1	5/13/2008 12:25:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		115.8	%REC	1	5/13/2008 12:25:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		96.7	%REC	1	5/13/2008 12:25:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		104.6	%REC	1	5/13/2008 12:25:00 AM	GEK
Surr: Toluene-d8		80.1-122		98.2	%REC	1	5/13/2008 12:25:00 AM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.63		< 0.63	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-014

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-852 2.0-3.0 ft

**Collection Date:** 5/9/2008 11:11:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.63		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050415  
**Lab ID:** 08050415-015  
**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-852 9.0-10.0 ft  
**Collection Date:** 5/9/2008 11:25:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.2	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.8	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 3:52:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		23.0	%REC	1	5/15/2008 3:52:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		34.7	%REC	1	5/15/2008 3:52:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.1	%REC	1	5/15/2008 3:52:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		2.5	µg/Kg-dry	1	5/13/2008 12:53:00 AM	GEK
Ethylbenzene	NELAP	4.2	J	1.6	µg/Kg-dry	1	5/13/2008 12:53:00 AM	GEK
Toluene	NELAP	4.2		5.0	µg/Kg-dry	1	5/13/2008 12:53:00 AM	GEK
Xylenes, Total	NELAP	4.2	J	4.0	µg/Kg-dry	1	5/13/2008 12:53:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		110.6	%REC	1	5/13/2008 12:53:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		101.1	%REC	1	5/13/2008 12:53:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		108.5	%REC	1	5/13/2008 12:53:00 AM	GEK
Surr: Toluene-d8		80.1-122		98.3	%REC	1	5/13/2008 12:53:00 AM	GEK
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		8.15		1	5/13/2008 1:27:00 PM	KNL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050415  
**Lab ID:** 08050415-016  
**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B-852 23.0-24.0 ft  
**Collection Date:** 5/9/2008 11:42:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.1	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.9	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 4:28:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		24.4	%REC	1	5/15/2008 4:28:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		38.9	%REC	1	5/15/2008 4:28:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		56.9	%REC	1	5/15/2008 4:28:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.6	µg/Kg-dry	1	5/13/2008 1:22:00 AM	GEK
Ethylbenzene	NELAP	4.4		ND	µg/Kg-dry	1	5/13/2008 1:22:00 AM	GEK
Toluene	NELAP	4.4	J	2.5	µg/Kg-dry	1	5/13/2008 1:22:00 AM	GEK
Xylenes, Total	NELAP	4.4	J	1.8	µg/Kg-dry	1	5/13/2008 1:22:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		113.7	%REC	1	5/13/2008 1:22:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		83.9	%REC	1	5/13/2008 1:22:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		111.2	%REC	1	5/13/2008 1:22:00 AM	GEK
Surr: Toluene-d8		80.1-122		110.2	%REC	1	5/13/2008 1:22:00 AM	GEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-845 6.0-7.0 ft

Lab ID: 08050415-017

Collection Date: 5/6/2008 2:45:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.3	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.7	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40		6.44	mg/Kg-dry	1	5/14/2008 9:06:55 PM	LAL
Chromium	NELAP	0.96		13.6	mg/Kg-dry	1	5/14/2008 9:06:55 PM	LAL
Lead	NELAP	3.85		9.36	mg/Kg-dry	1	5/16/2008 9:21:21 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Phenanthrene	NELAP	0.004		0.004	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:04:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		25.9	%REC	1	5/15/2008 5:04:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		34.5	%REC	1	5/15/2008 5:04:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		60.3	%REC	1	5/15/2008 5:04:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.5	µg/Kg-dry	1	5/13/2008 1:51:00 AM	GEK
Ethylbenzene	NELAP	4.7	J	2.2	µg/Kg-dry	1	5/13/2008 1:51:00 AM	GEK
Toluene	NELAP	4.7		7.2	µg/Kg-dry	1	5/13/2008 1:51:00 AM	GEK
Xylenes, Total	NELAP	4.7		4.8	µg/Kg-dry	1	5/13/2008 1:51:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		113.5	%REC	1	5/13/2008 1:51:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		99.0	%REC	1	5/13/2008 1:51:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		108.5	%REC	1	5/13/2008 1:51:00 AM	GEK
Surr: Toluene-d8		80.1-122		97.7	%REC	1	5/13/2008 1:51:00 AM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.60	J	0.20	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-017

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-845 6.0-7.0 ft

**Collection Date:** 5/6/2008 2:45:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.60		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-845 13.0-14.0 ft

Lab ID: 08050415-018

Collection Date: 5/6/2008 3:00:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.8	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.2	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	5/15/2008 5:40:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		23.8	%REC	1	5/15/2008 5:40:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		34.5	%REC	1	5/15/2008 5:40:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		58.5	%REC	1	5/15/2008 5:40:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		2.3	µg/Kg-dry	1	5/13/2008 2:20:00 AM	GEK
Ethylbenzene	NELAP	4.0	J	1.4	µg/Kg-dry	1	5/13/2008 2:20:00 AM	GEK
Toluene	NELAP	4.0		4.7	µg/Kg-dry	1	5/13/2008 2:20:00 AM	GEK
Xylenes, Total	NELAP	4.0	J	3.5	µg/Kg-dry	1	5/13/2008 2:20:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		117.4	%REC	1	5/13/2008 2:20:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		93.3	%REC	1	5/13/2008 2:20:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		107.2	%REC	1	5/13/2008 2:20:00 AM	GEK
Surr: Toluene-d8		80.1-122		102.2	%REC	1	5/13/2008 2:20:00 AM	GEK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-846 8.5-9.5 ft

Lab ID: 08050415-019

Collection Date: 5/7/2008 8:55:00 AM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		24.2	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		75.8	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.023		1.87	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Acenaphthylene	NELAP	0.023		0.312	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Anthracene	NELAP	0.023		0.928	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Benzo(a)anthracene	NELAP	0.023		0.523	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Benzo(a)pyrene	NELAP	0.023		0.469	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.023		0.356	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.023		0.173	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.023		0.109	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Chrysene	NELAP	0.023		0.518	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.023		0.049	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Fluoranthene	NELAP	0.023		1.08	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Fluorene	NELAP	0.023		0.941	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.023		0.142	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Naphthalene	NELAP	0.023		5.44	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Phenanthrene	NELAP	0.023		2.78	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Pyrene	NELAP	0.023		1.61	mg/Kg-dry	5	5/15/2008 6:24:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		27.9	%REC	5	5/15/2008 6:24:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		31.9	%REC	5	5/15/2008 6:24:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.9	%REC	5	5/15/2008 6:24:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	130		438	µg/Kg-dry	50	5/14/2008 7:44:00 PM	GEK
Ethylbenzene	NELAP	648		10100	µg/Kg-dry	50	5/14/2008 7:44:00 PM	GEK
Toluene	NELAP	648		ND	µg/Kg-dry	50	5/14/2008 7:44:00 PM	GEK
Xylenes, Total	NELAP	648		8820	µg/Kg-dry	50	5/14/2008 7:44:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		94.8	%REC	50	5/14/2008 7:44:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		98.3	%REC	50	5/14/2008 7:44:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		104.4	%REC	50	5/14/2008 7:44:00 PM	GEK
Surr: Toluene-d8		80.1-122		96.1	%REC	50	5/14/2008 7:44:00 PM	GEK

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental  
WorkOrder: 08050415  
Lab ID: 08050415-020  
Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ  
Client Sample ID: B-846 10.0-11.0 ft  
Collection Date: 5/7/2008 9:30:00 AM  
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.0	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.0	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.041		4.19	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Acenaphthylene	NELAP	0.041		0.808	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Anthracene	NELAP	0.041		2.10	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Benzo(a)anthracene	NELAP	0.041		1.30	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Benzo(a)pyrene	NELAP	0.041		1.28	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.041		0.979	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.041		0.471	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.041		0.290	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Chrysene	NELAP	0.041		1.32	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.041		0.133	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Fluoranthene	NELAP	0.041		2.47	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Fluorene	NELAP	0.041		1.91	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.041		0.381	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Naphthalene	NELAP	0.041		12.4	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Phenanthrene	NELAP	0.041		6.29	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Pyrene	NELAP	0.041		3.94	mg/Kg-dry	10	5/15/2008 7:01:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		18.0	%REC	10	5/15/2008 7:01:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		22.0	%REC	10	5/15/2008 7:01:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		57.9	%REC	10	5/15/2008 7:01:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	65.2		205	µg/Kg-dry	25	5/14/2008 6:46:00 PM	GEK
Ethylbenzene	NELAP	326		3420	µg/Kg-dry	25	5/14/2008 6:46:00 PM	GEK
Toluene	NELAP	326	J	84	µg/Kg-dry	25	5/14/2008 6:46:00 PM	GEK
Xylenes, Total	NELAP	326		2900	µg/Kg-dry	25	5/14/2008 6:46:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		102.2	%REC	25	5/14/2008 6:46:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		101.3	%REC	25	5/14/2008 6:46:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		113.7	%REC	25	5/14/2008 6:46:00 PM	GEK
Surr: Toluene-d8		80.1-122		98.2	%REC	25	5/14/2008 6:46:00 PM	GEK

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-021

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-846 20.0-21.0 ft

Collection Date: 5/7/2008 9:54:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		9.7	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		90.3	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.004	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Naphthalene	NELAP	0.004		0.013	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Phenanthrene	NELAP	0.004		0.009	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	5/14/2008 7:09:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		50.3	%REC	1	5/14/2008 7:09:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		54.7	%REC	1	5/14/2008 7:09:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.7	%REC	1	5/14/2008 7:09:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	19.7		3160	µg/Kg-dry	12.5	5/13/2008 6:28:00 PM	GEK
Ethylbenzene	NELAP	98.3		ND	µg/Kg-dry	12.5	5/13/2008 6:28:00 PM	GEK
Toluene	NELAP	98.3		ND	µg/Kg-dry	12.5	5/13/2008 6:28:00 PM	GEK
Xylenes, Total	NELAP	98.3		ND	µg/Kg-dry	12.5	5/13/2008 6:28:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		99.8	%REC	12.5	5/13/2008 6:28:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		96.1	%REC	12.5	5/13/2008 6:28:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		104.2	%REC	12.5	5/13/2008 6:28:00 PM	GEK
Surr: Toluene-d8		80.1-122		100.6	%REC	12.5	5/13/2008 6:28:00 PM	GEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-022

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-803 2.0-3.0 ft

Collection Date: 5/7/2008 10:07:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.9	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.1	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.27		5.49	mg/Kg-dry	1	5/14/2008 9:13:44 PM	LAL
Chromium	NELAP	0.91		21.2	mg/Kg-dry	1	5/14/2008 9:13:44 PM	LAL
Lead	NELAP	3.64		145	mg/Kg-dry	1	5/16/2008 9:23:38 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.008	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.023	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Anthracene	NELAP	0.004		0.023	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.086	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.105	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.131	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.066	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.045	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Chrysene	NELAP	0.004		0.096	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.017	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Fluoranthene	NELAP	0.004		0.173	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Fluorene	NELAP	0.004		0.007	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.059	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Naphthalene	NELAP	0.004		0.034	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Phenanthrene	NELAP	0.004		0.105	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Pyrene	NELAP	0.004		0.171	mg/Kg-dry	1	5/15/2008 7:39:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		61.7	%REC	1	5/15/2008 7:39:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		59.9	%REC	1	5/15/2008 7:39:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.3	%REC	1	5/15/2008 7:39:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		1.9	µg/Kg-dry	1	5/13/2008 7:54:00 PM	GEK
Ethylbenzene	NELAP	5.8		6.9	µg/Kg-dry	1	5/13/2008 7:54:00 PM	GEK
Toluene	NELAP	5.8	J	3.9	µg/Kg-dry	1	5/13/2008 7:54:00 PM	GEK
Xylenes, Total	NELAP	5.8		10.7	µg/Kg-dry	1	5/13/2008 7:54:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		119.2	%REC	1	5/13/2008 7:54:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117	S	75.0	%REC	1	5/13/2008 7:54:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		113.6	%REC	1	5/13/2008 7:54:00 PM	GEK
Surr: Toluene-d8		80.1-122		121.7	%REC	1	5/13/2008 7:54:00 PM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.57	J	0.37	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050415**Lab ID:** 08050415-022**Report Date:** 16-May-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-803 2.0-3.0 ft**Collection Date:** 5/7/2008 10:07:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.57		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-023

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-803 9.0-10.0 ft

Collection Date: 5/7/2008 10:20:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		22.0	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.0	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50	J	2.0	mg/Kg-dry	1	5/14/2008 9:20:31 PM	LAL
Chromium	NELAP	1.00		27.0	mg/Kg-dry	1	5/14/2008 9:20:31 PM	LAL
Lead	NELAP	4.00		14.2	mg/Kg-dry	1	5/16/2008 9:25:56 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.026	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.008	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Anthracene	NELAP	0.004		0.018	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.015	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.012	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.010	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.005	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Chrysene	NELAP	0.004		0.014	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Fluoranthene	NELAP	0.004		0.025	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Fluorene	NELAP	0.004		0.015	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Naphthalene	NELAP	0.004		0.062	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Phenanthrene	NELAP	0.004		0.063	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Pyrene	NELAP	0.004		0.037	mg/Kg-dry	1	5/14/2008 8:56:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		52.1	%REC	1	5/14/2008 8:56:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		57.7	%REC	1	5/14/2008 8:56:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.1	%REC	1	5/14/2008 8:56:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0	J	0.8	µg/Kg-dry	1	5/13/2008 7:26:00 PM	GEK
Ethylbenzene	NELAP	5.2		ND	µg/Kg-dry	1	5/13/2008 7:26:00 PM	GEK
Toluene	NELAP	5.2		ND	µg/Kg-dry	1	5/13/2008 7:26:00 PM	GEK
Xylenes, Total	NELAP	5.2		ND	µg/Kg-dry	1	5/13/2008 7:26:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		111.9	%REC	1	5/13/2008 7:26:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		94.5	%REC	1	5/13/2008 7:26:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		103.3	%REC	1	5/13/2008 7:26:00 PM	GEK
Surr: Toluene-d8		80.1-122		98.1	%REC	1	5/13/2008 7:26:00 PM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.61		< 0.61	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-023

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-803 9.0-10.0 ft

**Collection Date:** 5/7/2008 10:20:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.61		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-024

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-803 21.0-22.0 ft

Collection Date: 5/7/2008 10:41:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.8	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.2	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.31		5.41	mg/Kg-dry	1	5/14/2008 9:27:19 PM	LAL
Chromium	NELAP	0.93		14.2	mg/Kg-dry	1	5/14/2008 9:27:19 PM	LAL
Lead	NELAP	7.41		8.65	mg/Kg-dry	2	5/16/2008 11:09:13 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.039		2.96	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Acenaphthylene	NELAP	0.039		3.19	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Anthracene	NELAP	0.039		2.54	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Benzo(a)anthracene	NELAP	0.039		1.33	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Benzo(a)pyrene	NELAP	0.039		1.24	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.039		0.915	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.039		0.425	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.039		0.275	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Chrysene	NELAP	0.039		1.30	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.039		0.119	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Fluoranthene	NELAP	0.039		2.74	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Fluorene	NELAP	0.039		2.61	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.039		0.345	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Naphthalene	NELAP	0.039		13.0	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Phenanthrene	NELAP	0.039		8.16	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Pyrene	NELAP	0.039		4.13	mg/Kg-dry	10	5/15/2008 8:14:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		61.9	%REC	10	5/15/2008 8:14:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		51.9	%REC	10	5/15/2008 8:14:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.9	%REC	10	5/15/2008 8:14:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	75.8		158	µg/Kg-dry	50	5/14/2008 6:18:00 PM	GEK
Ethylbenzene	NELAP	379		4560	µg/Kg-dry	50	5/14/2008 6:18:00 PM	GEK
Toluene	NELAP	379	J	320	µg/Kg-dry	50	5/14/2008 6:18:00 PM	GEK
Xylenes, Total	NELAP	379		3500	µg/Kg-dry	50	5/14/2008 6:18:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		96.1	%REC	50	5/14/2008 6:18:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		101.5	%REC	50	5/14/2008 6:18:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		105.3	%REC	50	5/14/2008 6:18:00 PM	GEK
Surr: Toluene-d8		80.1-122		97.2	%REC	50	5/14/2008 6:18:00 PM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.57		< 0.57	mg/Kg-dry	1	5/13/2008	AET



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050415**Lab ID:** 08050415-024**Report Date:** 16-May-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-803 21.0-22.0 ft**Collection Date:** 5/7/2008 10:41:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u>								
Cyanide, Amenable to Chlorination		0.57		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-025

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-803 29.0-30.0 ft

Collection Date: 5/7/2008 10:55:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.3	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.7	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.004	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Naphthalene	NELAP	0.004		0.010	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Phenanthrene	NELAP	0.004		0.008	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	5/14/2008 9:32:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.9	%REC	1	5/14/2008 9:32:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		47.3	%REC	1	5/14/2008 9:32:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		61.7	%REC	1	5/14/2008 9:32:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		1.4	µg/Kg-dry	1	5/13/2008 2:49:00 AM	GEK
Ethylbenzene	NELAP	3.8		ND	µg/Kg-dry	1	5/13/2008 2:49:00 AM	GEK
Toluene	NELAP	3.8	J	2.0	µg/Kg-dry	1	5/13/2008 2:49:00 AM	GEK
Xylenes, Total	NELAP	3.8	J	1.3	µg/Kg-dry	1	5/13/2008 2:49:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		116.3	%REC	1	5/13/2008 2:49:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		88.7	%REC	1	5/13/2008 2:49:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		111.7	%REC	1	5/13/2008 2:49:00 AM	GEK
Surr: Toluene-d8		80.1-122		108.4	%REC	1	5/13/2008 2:49:00 AM	GEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-026

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-849 0.0-1.0 ft

Collection Date: 5/7/2008 11:25:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.0	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.0	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.40	J	2.0	mg/Kg-dry	1	5/14/2008 9:34:08 PM	LAL
Chromium	NELAP	0.96		27.5	mg/Kg-dry	1	5/14/2008 9:34:08 PM	LAL
Lead	NELAP	38.5		107	mg/Kg-dry	10	5/16/2008 11:11:31 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.010	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.033	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.039	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.058	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.025	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.020	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Chrysene	NELAP	0.004		0.043	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Fluoranthene	NELAP	0.004		0.062	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.024	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Naphthalene	NELAP	0.004		0.006	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Phenanthrene	NELAP	0.004		0.035	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Pyrene	NELAP	0.004		0.064	mg/Kg-dry	1	5/15/2008 8:50:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		51.9	%REC	1	5/15/2008 8:50:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		56.9	%REC	1	5/15/2008 8:50:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		62.9	%REC	1	5/15/2008 8:50:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		1.2	µg/Kg-dry	1	5/13/2008 3:18:00 AM	GEK
Ethylbenzene	NELAP	5.3		ND	µg/Kg-dry	1	5/13/2008 3:18:00 AM	GEK
Toluene	NELAP	5.3	J	1.1	µg/Kg-dry	1	5/13/2008 3:18:00 AM	GEK
Xylenes, Total	NELAP	5.3		ND	µg/Kg-dry	1	5/13/2008 3:18:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		117.3	%REC	1	5/13/2008 3:18:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		83.5	%REC	1	5/13/2008 3:18:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		113.3	%REC	1	5/13/2008 3:18:00 AM	GEK
Surr: Toluene-d8		80.1-122		109.7	%REC	1	5/13/2008 3:18:00 AM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.60	J	0.52	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050415**Lab ID:** 08050415-026**Report Date:** 16-May-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-849 0.0-1.0 ft**Collection Date:** 5/7/2008 11:25:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.60		Interference	mg/Kg-dry	1	5/14/2008	AET

**Sample Narrative**

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-027

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-849 9.0-10.0 ft

Collection Date: 5/7/2008 11:35:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		14.5	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		85.5	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		5.59	mg/Kg-dry	1	5/14/2008 9:41:15 PM	LAL
Chromium	NELAP	1.00		13.3	mg/Kg-dry	1	5/14/2008 9:41:15 PM	LAL
Lead	NELAP	8.00		12.4	mg/Kg-dry	2	5/16/2008 11:13:47 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:08:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		23.4	%REC	1	5/14/2008 10:08:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		30.7	%REC	1	5/14/2008 10:08:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		63.1	%REC	1	5/14/2008 10:08:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		2.6	µg/Kg-dry	1	5/13/2008 3:46:00 AM	GEK
Ethylbenzene	NELAP	4.4	J	2.1	µg/Kg-dry	1	5/13/2008 3:46:00 AM	GEK
Toluene	NELAP	4.4		5.7	µg/Kg-dry	1	5/13/2008 3:46:00 AM	GEK
Xylenes, Total	NELAP	4.4		4.6	µg/Kg-dry	1	5/13/2008 3:46:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		118.7	%REC	1	5/13/2008 3:46:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		98.0	%REC	1	5/13/2008 3:46:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		109.8	%REC	1	5/13/2008 3:46:00 AM	GEK
Surr: Toluene-d8		80.1-122		97.5	%REC	1	5/13/2008 3:46:00 AM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.56		< 0.56	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-027

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-849 9.0-10.0 ft

**Collection Date:** 5/7/2008 11:35:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.56		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-849 16.0-17.0 ft

Lab ID: 08050415-028

Collection Date: 5/7/2008 11:55:00 AM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		9.7	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		90.3	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.31		5.88	mg/Kg-dry	1	5/14/2008 10:00:49 PM	LAL
Chromium	NELAP	0.93		12.0	mg/Kg-dry	1	5/14/2008 10:00:49 PM	LAL
Lead	NELAP	3.70		6.88	mg/Kg-dry	1	5/16/2008 11:16:03 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.037		0.665	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Acenaphthylene	NELAP	0.037		1.55	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Anthracene	NELAP	0.037		1.12	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Benzo(a)anthracene	NELAP	0.037		0.670	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Benzo(a)pyrene	NELAP	0.037		0.661	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.037		0.520	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.037		0.227	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.037		0.161	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Chrysene	NELAP	0.037		0.661	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.037		0.065	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Fluoranthene	NELAP	0.037		1.21	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Fluorene	NELAP	0.037		1.07	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.037		0.187	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Naphthalene	NELAP	0.037		5.37	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Phenanthrene	NELAP	0.037		3.54	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Pyrene	NELAP	0.037		1.84	mg/Kg-dry	10	5/15/2008 9:27:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		53.9	%REC	10	5/15/2008 9:27:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		53.9	%REC	10	5/15/2008 9:27:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.9	%REC	10	5/15/2008 9:27:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	179		1210	µg/Kg-dry	100	5/14/2008 5:49:00 PM	GEK
Ethylbenzene	NELAP	896		6240	µg/Kg-dry	100	5/14/2008 5:49:00 PM	GEK
Toluene	NELAP	896	J	890	µg/Kg-dry	100	5/14/2008 5:49:00 PM	GEK
Xylenes, Total	NELAP	896		5640	µg/Kg-dry	100	5/14/2008 5:49:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		101.0	%REC	100	5/14/2008 5:49:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		100.4	%REC	100	5/14/2008 5:49:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		103.7	%REC	100	5/14/2008 5:49:00 PM	GEK
Surr: Toluene-d8		80.1-122		95.9	%REC	100	5/14/2008 5:49:00 PM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.54		< 0.54	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050415**Lab ID:** 08050415-028**Report Date:** 16-May-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-849 16.0-17.0 ft**Collection Date:** 5/7/2008 11:55:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u>								
Cyanide, Amenable to Chlorination		0.54		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-029

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-848 2.0-3.0 ft

Collection Date: 5/7/2008 3:45:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.1	%	1	5/12/2008	TWW
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.9	%	1	5/12/2008	TWW
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.008		ND	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Acenaphthylene	NELAP	0.008		0.024	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Anthracene	NELAP	0.008		0.011	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Benzo(a)anthracene	NELAP	0.008		0.067	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Benzo(a)pyrene	NELAP	0.008		0.089	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.008		0.103	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.008		0.050	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.008		0.032	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Chrysene	NELAP	0.008		0.075	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.008		0.013	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Fluoranthene	NELAP	0.008		0.091	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Fluorene	NELAP	0.008		ND	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.008		0.042	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Naphthalene	NELAP	0.008		0.014	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Phenanthrene	NELAP	0.008		0.053	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Pyrene	NELAP	0.008		0.111	mg/Kg-dry	2	5/15/2008 10:04:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		39.5	%REC	2	5/15/2008 10:04:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		47.5	%REC	2	5/15/2008 10:04:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		57.1	%REC	2	5/15/2008 10:04:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.1		1.3	µg/Kg-dry	1	5/13/2008 4:15:00 AM	GEK
Ethylbenzene	NELAP	5.7		ND	µg/Kg-dry	1	5/13/2008 4:15:00 AM	GEK
Toluene	NELAP	5.7		ND	µg/Kg-dry	1	5/13/2008 4:15:00 AM	GEK
Xylenes, Total	NELAP	5.7		ND	µg/Kg-dry	1	5/13/2008 4:15:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		118.6	%REC	1	5/13/2008 4:15:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		88.6	%REC	1	5/13/2008 4:15:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		110.9	%REC	1	5/13/2008 4:15:00 AM	GEK
Surr: Toluene-d8		80.1-122		106.0	%REC	1	5/13/2008 4:15:00 AM	GEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-030

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-848 9.0-10.0 ft

Collection Date: 5/7/2008 3:55:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		24.2	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		75.8	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 10:46:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		42.3	%REC	1	5/14/2008 10:46:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		45.3	%REC	1	5/14/2008 10:46:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.9	%REC	1	5/14/2008 10:46:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		5.8	µg/Kg-dry	1	5/13/2008 4:44:00 AM	GEK
Ethylbenzene	NELAP	5.1	J	3.9	µg/Kg-dry	1	5/13/2008 4:44:00 AM	GEK
Toluene	NELAP	5.1		11.7	µg/Kg-dry	1	5/13/2008 4:44:00 AM	GEK
Xylenes, Total	NELAP	5.1		7.2	µg/Kg-dry	1	5/13/2008 4:44:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		116.7	%REC	1	5/13/2008 4:44:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		99.5	%REC	1	5/13/2008 4:44:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		110.0	%REC	1	5/13/2008 4:44:00 AM	GEK
Surr: Toluene-d8		80.1-122		97.9	%REC	1	5/13/2008 4:44:00 AM	GEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-848 13.0-14.0 ft

Lab ID: 08050415-031

Collection Date: 5/7/2008 4:10:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.5	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.5	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/14/2008 11:23:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		25.7	%REC	1	5/14/2008 11:23:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		35.7	%REC	1	5/14/2008 11:23:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		67.3	%REC	1	5/14/2008 11:23:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		3.0	µg/Kg-dry	1	5/13/2008 5:13:00 AM	GEK
Ethylbenzene	NELAP	4.6	J	1.9	µg/Kg-dry	1	5/13/2008 5:13:00 AM	GEK
Toluene	NELAP	4.6		6.0	µg/Kg-dry	1	5/13/2008 5:13:00 AM	GEK
Xylenes, Total	NELAP	4.6	J	3.8	µg/Kg-dry	1	5/13/2008 5:13:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		114.6	%REC	1	5/13/2008 5:13:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		96.6	%REC	1	5/13/2008 5:13:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		111.8	%REC	1	5/13/2008 5:13:00 AM	GEK
Surr: Toluene-d8		80.1-122		96.1	%REC	1	5/13/2008 5:13:00 AM	GEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-032

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-847 6.0-7.0 ft

Collection Date: 5/7/2008 4:47:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		21.1	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		78.9	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Phenanthrene	NELAP	0.004		0.011	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	5/15/2008 6:17:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		25.1	%REC	1	5/15/2008 6:17:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		41.1	%REC	1	5/15/2008 6:17:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		64.1	%REC	1	5/15/2008 6:17:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		2.7	µg/Kg-dry	1	5/13/2008 5:42:00 AM	GEK
Ethylbenzene	NELAP	5.2	J	3.0	µg/Kg-dry	1	5/13/2008 5:42:00 AM	GEK
Toluene	NELAP	5.2		6.8	µg/Kg-dry	1	5/13/2008 5:42:00 AM	GEK
Xylenes, Total	NELAP	5.2		5.7	µg/Kg-dry	1	5/13/2008 5:42:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		119.9	%REC	1	5/13/2008 5:42:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		101.9	%REC	1	5/13/2008 5:42:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		109.3	%REC	1	5/13/2008 5:42:00 AM	GEK
Surr: Toluene-d8		80.1-122		97.3	%REC	1	5/13/2008 5:42:00 AM	GEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-847 22.0-23.0 ft

Lab ID: 08050415-033

Collection Date: 5/7/2008 5:18:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.4	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.6	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8015B, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID</b>								
Diesel	NELAP	139	SR#	562	mg/Kg-dry	25	5/15/2008 4:01:00 PM	DMH
Kerosene	NELAP	139		ND	mg/Kg-dry	25	5/15/2008 4:01:00 PM	DMH
Mineral Spirits	NELAP	139		ND	mg/Kg-dry	25	5/15/2008 4:01:00 PM	DMH
Motor Oil	NELAP	139		ND	mg/Kg-dry	25	5/15/2008 4:01:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	44.7	%REC	25	5/15/2008 4:01:00 PM	DMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.190		0.950	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Acenaphthylene	NELAP	0.190		4.73	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Anthracene	NELAP	0.190		2.36	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Benzo(a)anthracene	NELAP	0.190		1.29	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Benzo(a)pyrene	NELAP	0.190		1.15	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.190		0.905	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.190		0.356	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.190		0.258	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Chrysene	NELAP	0.190		1.27	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.190		ND	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Fluoranthene	NELAP	0.190		2.53	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Fluorene	NELAP	0.190		2.50	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.190		0.300	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Naphthalene	NELAP	0.190		13.8	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Phenanthrene	NELAP	0.190		8.04	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Pyrene	NELAP	0.190		3.79	mg/Kg-dry	50	5/15/2008 10:39:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		49.9	%REC	50	5/15/2008 10:39:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		49.9	%REC	50	5/15/2008 10:39:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		59.9	%REC	50	5/15/2008 10:39:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	548		1440	µg/Kg-dry	500	5/14/2008 11:32:00 AM	GEK
Ethylbenzene	NELAP	2740		62800	µg/Kg-dry	500	5/14/2008 11:32:00 AM	GEK
Toluene	NELAP	2740		12400	µg/Kg-dry	500	5/14/2008 11:32:00 AM	GEK
Xylenes, Total	NELAP	2740		75600	µg/Kg-dry	500	5/14/2008 11:32:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		109.7	%REC	500	5/14/2008 11:32:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		104.6	%REC	500	5/14/2008 11:32:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		105.8	%REC	500	5/14/2008 11:32:00 AM	GEK
Surr: Toluene-d8		80.1-122		93.6	%REC	500	5/14/2008 11:32:00 AM	GEK

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-033

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-847 22.0-23.0 ft

**Collection Date:** 5/7/2008 5:18:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
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### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 3550B, 8015B, Total Petroleum Hydrocarbons (OA-2) by GC/FID

Surrogate recovery was outside QC limits due to matrix interference.

Matrix spike and RPD did not recover within control limits because of sample composition.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-034

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-809 2.0-3.0 ft

Collection Date: 5/8/2008 9:45:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.7	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.3	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.36		4.34	mg/Kg-dry	1	5/14/2008 10:07:39 PM	LAL
Chromium	NELAP	0.94		7.08	mg/Kg-dry	1	5/14/2008 10:07:39 PM	LAL
Lead	NELAP	37.7		48.5	mg/Kg-dry	10	5/16/2008 11:18:19 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.042		0.153	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Acenaphthylene	NELAP	0.042		0.061	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Anthracene	NELAP	0.042		0.157	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Benzo(a)anthracene	NELAP	0.042		1.11	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Benzo(a)pyrene	NELAP	0.042		2.84	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.042		2.78	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.042		2.26	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.042		0.907	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Chrysene	NELAP	0.042		1.24	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.042		0.551	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Fluoranthene	NELAP	0.042		1.40	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Fluorene	NELAP	0.042		0.049	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.042		2.03	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Naphthalene	NELAP	0.042		0.136	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Phenanthrene	NELAP	0.042		0.716	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Pyrene	NELAP	0.042		1.34	mg/Kg-dry	10	5/15/2008 8:41:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		45.9	%REC	10	5/15/2008 8:41:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		47.9	%REC	10	5/15/2008 8:41:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		53.9	%REC	10	5/15/2008 8:41:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.5		1.6	µg/Kg-dry	1	5/13/2008 9:50:00 PM	GEK
Ethylbenzene	NELAP	7.5		ND	µg/Kg-dry	1	5/13/2008 9:50:00 PM	GEK
Toluene	NELAP	7.5	J	2.8	µg/Kg-dry	1	5/13/2008 9:50:00 PM	GEK
Xylenes, Total	NELAP	7.5	J	6.2	µg/Kg-dry	1	5/13/2008 9:50:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128	S	140.0	%REC	1	5/13/2008 9:50:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117	S	63.5	%REC	1	5/13/2008 9:50:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130	S	142.3	%REC	1	5/13/2008 9:50:00 PM	GEK
Surr: Toluene-d8		80.1-122	S	158.5	%REC	1	5/13/2008 9:50:00 PM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.61		1.23	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-034

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-809 2.0-3.0 ft

**Collection Date:** 5/8/2008 9:45:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u>								
Cyanide, Amenable to Chlorination		0.61		Interference	mg/Kg-dry	1	5/14/2008	AET
<u>SW-846 9045C</u>								
pH (1:1)	NELAP	1.00		7.25		1	5/13/2008 1:32:00 PM	KNL

### Sample Narrative

SW-846 3550B, 8270C SIMS. Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

Results verified by re-analysis.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-035

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-809 9.0-10.0 ft

Collection Date: 5/8/2008 9:58:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		17.7	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.3	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.36		3.08	mg/Kg-dry	1	5/14/2008 10:14:13 PM	LAL
Chromium	NELAP	0.94		16.1	mg/Kg-dry	1	5/14/2008 10:14:13 PM	LAL
Lead	NELAP	7.55		12.4	mg/Kg-dry	2	5/16/2008 11:20:35 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 12:37:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		26.3	%REC	1	5/15/2008 12:37:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		38.7	%REC	1	5/15/2008 12:37:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.3	%REC	1	5/15/2008 12:37:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.6	µg/Kg-dry	1	5/13/2008 6:39:00 AM	GEK
Ethylbenzene	NELAP	4.3		ND	µg/Kg-dry	1	5/13/2008 6:39:00 AM	GEK
Toluene	NELAP	4.3	J	1.4	µg/Kg-dry	1	5/13/2008 6:39:00 AM	GEK
Xylenes, Total	NELAP	4.3		ND	µg/Kg-dry	1	5/13/2008 6:39:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		117.9	%REC	1	5/13/2008 6:39:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		97.9	%REC	1	5/13/2008 6:39:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		109.2	%REC	1	5/13/2008 6:39:00 AM	GEK
Surr: Toluene-d8		80.1-122		96.1	%REC	1	5/13/2008 6:39:00 AM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.59		< 0.59	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-035

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-809 9.0-10.0 ft

**Collection Date:** 5/8/2008 9:58:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9014A</b>								
Cyanide, Amenable to Chlorination		0.59		Interference	mg/Kg-dry	1	5/14/2008	AET
<b>SW-846 9045C</b>								
pH (1:1)	NELAP	1.00		7.22		1	5/13/2008 1:39:00 PM	KNL

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-036

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-809 15.0-16.0 ft

Collection Date: 5/8/2008 10:15:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.3	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.7	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50		4.69	mg/Kg-dry	1	5/14/2008 10:21:02 PM	LAL
Chromium	NELAP	1.00		15.3	mg/Kg-dry	1	5/14/2008 10:21:02 PM	LAL
Lead	NELAP	4.00		8.68	mg/Kg-dry	1	5/16/2008 11:22:52 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Naphthalene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:15:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		46.5	%REC	1	5/15/2008 1:15:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		47.9	%REC	1	5/15/2008 1:15:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		62.9	%REC	1	5/15/2008 1:15:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.8	µg/Kg-dry	1	5/13/2008 7:08:00 AM	GEK
Ethylbenzene	NELAP	4.5		ND	µg/Kg-dry	1	5/13/2008 7:08:00 AM	GEK
Toluene	NELAP	4.5	J	2.9	µg/Kg-dry	1	5/13/2008 7:08:00 AM	GEK
Xylenes, Total	NELAP	4.5		ND	µg/Kg-dry	1	5/13/2008 7:08:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		122.8	%REC	1	5/13/2008 7:08:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		88.5	%REC	1	5/13/2008 7:08:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		115.0	%REC	1	5/13/2008 7:08:00 AM	GEK
Surr: Toluene-d8		80.1-122		107.5	%REC	1	5/13/2008 7:08:00 AM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.55		< 0.55	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-036

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-809 15.0-16.0 ft

Collection Date: 5/8/2008 10:15:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u>								
Cyanide, Amenable to Chlorination		0.55		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-037

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-847 29.0-30.0 ft

**Collection Date:** 5/7/2008 5:30:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		11.5	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		88.5	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Naphthalene	NELAP	0.004		0.012	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Phenanthrene	NELAP	0.004		0.006	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 1:52:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		26.1	%REC	1	5/15/2008 1:52:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		32.3	%REC	1	5/15/2008 1:52:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		61.5	%REC	1	5/15/2008 1:52:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		1.2	µg/Kg-dry	1	5/13/2008 7:37:00 AM	GEK
Ethylbenzene	NELAP	3.8		ND	µg/Kg-dry	1	5/13/2008 7:37:00 AM	GEK
Toluene	NELAP	3.8	J	1.8	µg/Kg-dry	1	5/13/2008 7:37:00 AM	GEK
Xylenes, Total	NELAP	3.8		ND	µg/Kg-dry	1	5/13/2008 7:37:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		121.1	%REC	1	5/13/2008 7:37:00 AM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		82.3	%REC	1	5/13/2008 7:37:00 AM	GEK
Surr: Dibromofluoromethane		66.6-130		115.5	%REC	1	5/13/2008 7:37:00 AM	GEK
Surr: Toluene-d8		80.1-122		113.1	%REC	1	5/13/2008 7:37:00 AM	GEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-850 8.0-9.0 ft

Lab ID: 08050415-038

Collection Date: 5/8/2008 11:30:00 AM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		17.7	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.3	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.50	J	1.9	mg/Kg-dry	1	5/14/2008 10:27:52 PM	LAL
Chromium	NELAP	1.00		19.4	mg/Kg-dry	1	5/14/2008 10:27:52 PM	LAL
Lead	NELAP	8.00		14.4	mg/Kg-dry	2	5/16/2008 11:25:09 AM	CRK
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		0.165	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.026	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Anthracene	NELAP	0.004		0.010	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Fluorene	NELAP	0.004		0.033	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Naphthalene	NELAP	0.004		0.129	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Phenanthrene	NELAP	0.004		0.054	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 6:53:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		31.7	%REC	1	5/15/2008 6:53:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		39.1	%REC	1	5/15/2008 6:53:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		59.3	%REC	1	5/15/2008 6:53:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.2		20.9	µg/Kg-dry	1	5/13/2008 10:47:00 PM	GEK
Ethylbenzene	NELAP	6.1		30.3	µg/Kg-dry	1	5/13/2008 10:47:00 PM	GEK
Toluene	NELAP	6.1	J	6.0	µg/Kg-dry	1	5/13/2008 10:47:00 PM	GEK
Xylenes, Total	NELAP	6.1		58.4	µg/Kg-dry	1	5/13/2008 10:47:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		119.3	%REC	1	5/13/2008 10:47:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		87.5	%REC	1	5/13/2008 10:47:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		106.9	%REC	1	5/13/2008 10:47:00 PM	GEK
Surr: Toluene-d8		80.1-122		100.1	%REC	1	5/13/2008 10:47:00 PM	GEK
<b>SW-846 9010B, 9014</b>								
Cyanide	NELAP	0.59	J	0.23	mg/Kg-dry	1	5/13/2008	AET

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050415**Lab ID:** 08050415-038**Report Date:** 16-May-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-850 8.0-9.0 ft**Collection Date:** 5/8/2008 11:30:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 9014A</u> Cyanide, Amenable to Chlorination		0.59		Interference	mg/Kg-dry	1	5/14/2008	AET

**Sample Narrative**

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050415

Lab ID: 08050415-039

Report Date: 16-May-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-850 16.0-17.0 ft

Collection Date: 5/8/2008 12:05:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		9.1	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		90.9	%	1	5/12/2008	TWM
<b>SW-846 3050B, 6010B, METALS BY ICP</b>								
Arsenic	NELAP	2.36		6.08	mg/Kg-dry	1	5/14/2008 10:34:42 PM	LAL
Chromium	NELAP	0.94		12.4	mg/Kg-dry	1	5/14/2008 10:34:42 PM	LAL
Lead	NELAP	3.77		6.67	mg/Kg-dry	1	5/16/2008 11:27:26 AM	CRK
<b>SW-846 3550B, 8015B, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID</b>								
Diesel	NELAP	554	#	12500	mg/Kg-dry	100	5/15/2008 5:55:00 PM	DMH
Kerosene	NELAP	554		ND	mg/Kg-dry	100	5/15/2008 5:55:00 PM	DMH
Mineral Spirits	NELAP	554		ND	mg/Kg-dry	100	5/15/2008 5:55:00 PM	DMH
Motor Oil	NELAP	554	#	1660	mg/Kg-dry	100	5/15/2008 5:55:00 PM	DMH
Surr: n-Tetracontane	NELAP	50.6-140	S	0	%REC	100	5/15/2008 5:55:00 PM	DMH
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.745		65.1	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Acenaphthylene	NELAP	0.745		229	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Anthracene	NELAP	0.745		121	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Benzo(a)anthracene	NELAP	0.745		70.0	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Benzo(a)pyrene	NELAP	0.745		69.3	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.745		54.5	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.745		21.8	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.745		17.7	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Chrysene	NELAP	0.745		69.8	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.745		6.50	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Fluoranthene	NELAP	0.745		154	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Fluorene	NELAP	0.745		132	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.745		19.1	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Naphthalene	NELAP	3.73		920	mg/Kg-dry	500	5/15/2008 9:18:00 PM	TDN
Phenanthrene	NELAP	3.73		449	mg/Kg-dry	500	5/15/2008 9:18:00 PM	TDN
Pyrene	NELAP	0.745		212	mg/Kg-dry	100	5/15/2008 11:52:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		99.8	%REC	100	5/15/2008 11:52:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		39.9	%REC	100	5/15/2008 11:52:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		79.8	%REC	100	5/15/2008 11:52:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	2180		10700	µg/Kg-dry	1250	5/14/2008 12:30:00 PM	GEK
Ethylbenzene	NELAP	10900		227000	µg/Kg-dry	1250	5/14/2008 12:30:00 PM	GEK
Toluene	NELAP	10900		21500	µg/Kg-dry	1250	5/14/2008 12:30:00 PM	GEK
Xylenes, Total	NELAP	10900		258000	µg/Kg-dry	1250	5/14/2008 12:30:00 PM	GEK



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050415

**Lab ID:** 08050415-039

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-850 16.0-17.0 ft

**Collection Date:** 5/8/2008 12:05:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Surr: 1,2-Dichloroethane-d4		61-128		<b>102.7</b>	%REC	1250	5/14/2008 12:30:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		<b>98.8</b>	%REC	1250	5/14/2008 12:30:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		<b>101.8</b>	%REC	1250	5/14/2008 12:30:00 PM	GEK
Surr: Toluene-d8		80 1-122		<b>96.3</b>	%REC	1250	5/14/2008 12:30:00 PM	GEK
<b><u>SW-846 9010B, 9014</u></b>								
Cyanide	NELAP	0.55		< 0.55	mg/Kg-dry	1	5/13/2008	AET
<b><u>SW-846 9014A</u></b>								
Cyanide, Amenable to Chlorination		0.55		Interference	mg/Kg-dry	1	5/14/2008	AET

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

SW-846 3550B, 8015B, Total Petroleum Hydrocarbons (OA-2) by GC/FID

Surrogate recovery was outside QC limits due to sample dilution.

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050415

Client Sample ID: B-850 25.0-26.0 ft

Lab ID: 08050415-040

Collection Date: 5/8/2008 12:55:00 PM

Report Date: 16-May-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		9.7	%	1	5/12/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		90.3	%	1	5/12/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.006	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004	J	0.003	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Chrysene	NELAP	0.004		0.004	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Fluorene	NELAP	0.004		0.004	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Naphthalene	NELAP	0.004		0.013	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Phenanthrene	NELAP	0.004		0.018	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	5/15/2008 7:29:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		27.1	%REC	1	5/15/2008 7:29:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		25.5	%REC	1	5/15/2008 7:29:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		60.5	%REC	1	5/15/2008 7:29:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		1.7	µg/Kg-dry	1	5/13/2008 6:57:00 PM	GEK
Ethylbenzene	NELAP	4.2	J	1.0	µg/Kg-dry	1	5/13/2008 6:57:00 PM	GEK
Toluene	NELAP	4.2	J	2.5	µg/Kg-dry	1	5/13/2008 6:57:00 PM	GEK
Xylenes, Total	NELAP	4.2	J	3.1	µg/Kg-dry	1	5/13/2008 6:57:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		61-128		108.6	%REC	1	5/13/2008 6:57:00 PM	GEK
Surr: 4-Bromofluorobenzene		78.2-117		82.2	%REC	1	5/13/2008 6:57:00 PM	GEK
Surr: Dibromofluoromethane		66.6-130		106.2	%REC	1	5/13/2008 6:57:00 PM	GEK
Surr: Toluene-d8		80.1-122		114.2	%REC	1	5/13/2008 6:57:00 PM	GEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Marginal Exceedance for Naphthalene, LCS is verified per NELAC Appendix D 1.1.2

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050415

**Report Date:** 16-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-001A	B-812 1.0-2.0 ft	5/5/2008	Solid	ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
08050415-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-002A	B-812 9.0-10.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
08050415-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-003A	B-812 11.0-12.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-004A	B-811 2.0-3.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/13/2008	5/13/2008
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/13/2008	5/13/2008
08050415-005A	B-811 9.0-10.0 ft			ASTM D2974		5/12/2008

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**Client:** Philip Environmental  
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**Lab Order:** 08050415  
**Report Date:** 16-May-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-005A	B-811 9.0-10.0 ft	5/5/2008	Solid	Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-006A	B-811 11.0-12.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-006D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-007A	B-843 2.0-3.0 ft	5/6/2008		ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-007A	B-843 2.0-3.0 ft	5/6/2008	Solid	SW-846 9014A	5/13/2008	5/14/2008
08050415-007D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-008A	B-843 7.0-8.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-008D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-009A	B-843 10.0-11.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
08050415-009D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-010A	B-844 1.0-2.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-010A	B-844 1.0-2.0 ft	5/6/2008	Solid	SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-010D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-011A	B-844 8.0-9.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-011D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-012A	B-844 15.0-16.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-012D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/14/2008	5/14/2008
08050415-013A	B-851 19.0-20.0 ft	5/9/2008		ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-013D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/12/2008
08050415-014A	B-852 2.0-3.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-014A	B-852 2.0-3.0 ft	5/9/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-014D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-015A	B-852 9.0-10.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9045C		5/13/2008
08050415-015D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-016A	B-852 23.0-24.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-016D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-017A	B-845 6.0-7.0 ft	5/6/2008		ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-017A	B-845 6.0-7.0 ft	5/6/2008	Solid	SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-017D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-018A	B-845 13.0-14.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-018D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-019A	B-846 8.5-9.5 ft	5/7/2008		ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-019D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/14/2008	5/14/2008
08050415-020A	B-846 10.0-11.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-020D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/14/2008	5/14/2008
08050415-021A	B-846 20.0-21.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
08050415-021D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/13/2008	5/13/2008
08050415-022A	B-803 2.0-3.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008



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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-022A	B-803 2.0-3.0 ft	5/7/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
08050415-022D				SW-846 9014A	5/13/2008	5/14/2008
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/13/2008	5/13/2008
				ASTM D2974		5/12/2008
08050415-023A	B-803 9.0-10.0 ft			Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
08050415-023D				SW-846 9014A	5/13/2008	5/14/2008
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/13/2008	5/13/2008
				ASTM D2974		5/12/2008
08050415-024A	B-803 21.0-22.0 ft			Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-024A	B-803 21.0-22.0 ft	5/7/2008	Solid	SW-846 3550B, 8270C SIMS. Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-024D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/14/2008	5/14/2008
08050415-025A	B-803 29.0-30.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS. Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
08050415-025D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-026A	B-849 0.0-1.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS. Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-026D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-027A	B-849 9.0-10.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-027A	B-849 9.0-10.0 ft	5/7/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS. Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-027D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-028A	B-849 16.0-17.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS. Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-028D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/14/2008	5/14/2008
08050415-029A	B-848 2.0-3.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS. Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-029D	B-848 2.0-3.0 ft	5/7/2008	Solid	SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-030A	B-848 9.0-10.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
08050415-030D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-031A	B-848 13.0-14.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
08050415-031D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-032A	B-847 6.0-7.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/14/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-032D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-033A	B-847 22.0-23.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8015B, Total Petroleum Hydrocarbons (OA-2) by GC/FID	5/12/2008	5/14/2008
				SW-846 3550B, 8015B, Total Petroleum Hydrocarbons (OA-2) by GC/FID	5/14/2008	5/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-033D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/14/2008	5/14/2008
08050415-034A	B-809 2.0-3.0 ft	5/8/2008		ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008

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Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-034A	B-809 2.0-3.0 ft	5/8/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
				SW-846 9045C		5/13/2008
08050415-034D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/13/2008	5/13/2008
08050415-035A	B-809 9.0-10.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050415

**Report Date:** 16-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-035A	B-809 9.0-10.0 ft	5/8/2008	Solid	SW-846 9045C		5/13/2008
08050415-035D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-036A	B-809 15.0-16.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-036D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-037A	B-847 29.0-30.0 ft	5/7/2008		ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-037D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/12/2008	5/13/2008
08050415-038A	B-850 8.0-9.0 ft	5/8/2008		ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008

ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050415

**Report Date:** 16-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-038A	B-850 8.0-9.0 ft	5/8/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-038D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/13/2008	5/13/2008
08050415-039A	B-850 16.0-17.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/15/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/16/2008
				SW-846 3550B, 8015B, Total Petroleum Hydrocarbons (OA-2) by GC/FID	5/12/2008	5/14/2008
				SW-846 3550B, 8015B, Total Petroleum Hydrocarbons (OA-2) by GC/FID	5/14/2008	5/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050415-039D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/14/2008	5/14/2008
08050415-040A	B-850 25.0-26.0 ft			ASTM D2974		5/12/2008
				Standard Methods 18th Ed. 2540 G		5/12/2008

ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050415

**Report Date:** 16-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050415-040A	B-850 25.0-26.0 ft	5/8/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/12/2008	5/15/2008
08050415-040D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	5/13/2008	5/13/2008



**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

	Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon
		<b>MI</b> - Matrix interference
		<b>DNI</b> - Did not ignite
		<b>E</b> - Value above quantitation range
		<b>H</b> - Holding time exceeded
		<b>NELAP</b> - IL ELAP and NELAP Accredited

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050415

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_ACN\_S\_MT

Sample ID: MB-R108131	SampType: MBLK	Units: mg/Kg	Prep Date: 5/13/2008	RunNo: 108131							
Client ID: ZZZZZZ	Batch ID: 44827	SOP2092	Analysis Date: 5/14/2008	SeqNo: 1947206							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide, Amenable to Chlorination < 0.01 0.01

Sample ID: LCS-R108131	SampType: LCS	Units: mg/Kg	Prep Date: 5/13/2008	RunNo: 108131							
Client ID: ZZZZZZ	Batch ID: 44827	SOP2092	Analysis Date: 5/14/2008	SeqNo: 1947207							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide, Amenable to Chlorination 0.20 0.01 0.2000 0 100.8 85 115

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: L\_TCN\_S\_MT

Lab Order: 08050415

Report Date: 16-May-08

Sample ID: MB-R108067	SampType: MBLK	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44810	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945237
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	< 0.01	0.01		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: LCS-R108067	SampType: LCS	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44810	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945238
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.20	0.01	0.2000	0
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: LCSD-R108067	SampType: LCSD	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44810	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945239
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.19	0.01	0.2000	0
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: 08050415-005AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/12/2008	RunNo: 108067
Client ID: B-811 9.0-10.0 ftMS	Batch ID: 44810	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945242
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	5.97	0.62	6.205	0.2479
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: 08050415-005AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/12/2008	RunNo: 108067
Client ID: B-811 9.0-10.0 ftMS	Batch ID: 44810	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945243
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	6.23	0.62	6.198	0.2479
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: MB-R108067	SampType: MBLK	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44826	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945262
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: I\_TCN\_S\_MT

Lab Order: 08050415

Report Date: 16-May-08

Sample ID: MB-R108067	SampType: MBLK	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44826	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945262
Analyte	Result	PQL	SPK value	SPK Ref Val
	< 0.01	0.01		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCS-R108067	SampType: LCS	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44826	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945263
Analyte	Result	PQL	SPK value	SPK Ref Val
	0.19	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		94.1	85	115
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCSD-R108067	SampType: LCSD	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44826	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945264
Analyte	Result	PQL	SPK value	SPK Ref Val
	0.20	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		99.7	85	115
			RPD Ref Val	%RPD
			RPDLimit	Qual

Cyanide				5.84	15
			0.1881		

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050415 Report Date: 16-May-08

TestCode: I\_TS\_M\_MT

Sample ID: LCS-R108052	SampType: LCS	Units: %	Prep Date:	RunNo: 108052							
Client ID: ZZZZZZ	Batch ID: R108052		Analysis Date: 5/12/2008	SeqNo: 1944672							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1,000	0	99.0	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 108052							
Client ID: ZZZZZZ	Batch ID: R108052		Analysis Date: 5/12/2008	SeqNo: 1944673							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1,000	0	100	90	110				

Sample ID: 08050415-004ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 108052							
Client ID: B-811 2.0-3.0 ftDUP	Batch ID: R108052		Analysis Date: 5/12/2008	SeqNo: 1944689							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	79.2	0.1				90		78.94	0.341		15

Sample ID: 08050415-022ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 108052							
Client ID: B-803 2.0-3.0 ftDUP	Batch ID: R108052		Analysis Date: 5/12/2008	SeqNo: 1944708							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	80.2	0.1				90		80.07	0.150		15

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050415 Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: L\_PH\_S\_M

Sample ID: 08050415-015ADUP	SampType: DUP	Units:	Prep Date:	RunNo: 108062							
Client ID: B-852 9.0-10.0 ftDUP	Batch ID: R108062		Analysis Date: 5/13/2008	SeqNo: 1945105							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	8.18	1.00						8.150	0.367		10

Sample ID: LCS-R108062	SampType: LCS	Units:	Prep Date:	RunNo: 108062							
Client ID: ZZZZZZ	Batch ID: R108062		Analysis Date: 5/13/2008	SeqNo: 1945128							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	7.00	1.00	7.000	0	100	99.1	100.9				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050415

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: MB-44809	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: ZZZZZZ	Batch ID: 44809	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947268							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-44809	SampType: LCS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: ZZZZZZ	Batch ID: 44809	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947271							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	196	2.50	200.0	0	97.8	85	115				
Chromium	19.5	1.00	20.00	0	97.6	85	115				

Sample ID: 08050415-006AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B-811 11.0-12.0 fRMS	Batch ID: 44809	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947276							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	176	2.40	192.3	6.433	88.1	75	125				
Chromium	31.2	0.96	19.23	14.38	87.7	75	125				

Sample ID: 08050415-006AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B-811 11.0-12.0 fRMS	Batch ID: 44809	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947277							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	177	2.40	192.3	6.433	88.9	75	125	175.8	0.871	20	
Chromium	30.4	0.96	19.23	14.38	83.4	75	125	31.25	2.71	20	

Sample ID: 08050415-014AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B-852 2.0-3.0 fRMS	Batch ID: 44809	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947285							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	177	2.40	192.3	4.615	89.8	75	125				
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Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: M\_SOLIDS\_ICP

Lab Order: 08050415

Report Date: 16-May-08

Sample ID: 08050415-014AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B-852 2.0-3.0 ftMS	Batch ID: 44809	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947285							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	40.6	0.96	19.23	23.50	89.2	75	125				

Sample ID: 08050415-014AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B-852 2.0-3.0 ftMSD	Batch ID: 44809	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947286							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	179	2.40	192.3	4.615	90.7	75	125	177.3	0.971	20	
Chromium	41.6	0.96	19.23	23.50	94.2	75	125	40.64	2.36	20	

Sample ID: MB-44809	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108133							
Client ID: ZZZZZZ	Batch ID: 44809	SOP 3032	Analysis Date: 5/15/2008	SeqNo: 1949076							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-44809	SampType: LCS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108133							
Client ID: ZZZZZZ	Batch ID: 44809	SOP 3032	Analysis Date: 5/15/2008	SeqNo: 1949077							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	52.7	4.00	50.00	0	105.3	85	115				

Sample ID: 08050415-006AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108133							
Client ID: B-811 11.0-12.0 ftMS	Batch ID: 44809	SOP 3032	Analysis Date: 5/15/2008	SeqNo: 1949084							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.6	3.85	48.08	10.14	84.1	75	125				



Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: M\_SOLIDS\_ICP

Lab Order: 08050415

Report Date: 16-May-08

Sample ID: 08050415-006AMS	MSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108133						
Client ID: B-811 11.0-12.0 ftMS	44809	Batch ID: 44809	SOP 3032	Analysis Date: 5/15/2008	SeqNo: 1949085						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.7	3.85	48.08	10.14	82.3	75	125	50.56	1.71	20	

Sample ID: 08050415-014AMS	MS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108207						
Client ID: B-852 2.0-3.0 ftMS	44809	Batch ID: 44809	SOP 3032	Analysis Date: 5/16/2008	SeqNo: 1949511						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	99.8	3.85	48.08	51.90	99.6	75	125				

Sample ID: 08050415-014AMS	MSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108207						
Client ID: B-852 2.0-3.0 ftMS	44809	Batch ID: 44809	SOP 3032	Analysis Date: 5/16/2008	SeqNo: 1949512						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	94.3	3.85	48.08	51.90	88.1	75	125	99.81	5.71	20	

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: SV\_8270S\_S\_SIMS

Lab Order: 08050415

Report Date: 16-May-08

Sample ID: MB-44799	SampType: MBLK	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108117							
Client ID: ZZZZZZ	Batch ID: 44799	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1946847							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.120		0.1670		72.1	17.5	123				
Surr: Nitrobenzene-d5	0.112		0.1670		67.3	35	105				
Surr: p-Terphenyl-d14	0.137		0.1670		81.8	53.6	122				

Sample ID: LCS-44799	SampType: LCS	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108117							
Client ID: ZZZZZZ	Batch ID: 44799	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1946848							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.103	0.003	0.1670	0	61.6	56.3	115				
Acenaphthylene	0.137	0.003	0.1670	0	81.8	60.3	143				
Anthracene	0.099	0.003	0.1670	0	59.0	52.1	109				
Benzo(a)anthracene	0.100	0.003	0.1670	0	59.8	52.8	112				
Benzo(a)pyrene	0.105	0.003	0.1670	0	63.0	40.8	127				
Benzo(b)fluoranthene	0.118	0.003	0.1670	0	70.8	50.1	150				
Benzo(g,h,i)perylene	0.118	0.003	0.1670	0	70.5	52.8	145				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050415

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: LCS-44799	SampType: LCS	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108117
Client ID: ZZZZZZ	Batch ID: 44799	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1946848

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.115	0.003	0.1670	0	68.7	52	153				
Chrysene	0.110	0.003	0.1670	0	65.8	60.8	128				
Dibenzo(a,h)anthracene	0.118	0.003	0.1670	0	70.6	54.9	150				
Fluoranthene	0.105	0.003	0.1670	0	62.7	58.7	125				
Fluorene	0.109	0.003	0.1670	0	65.4	57.8	125				
Indeno(1,2,3-cd)pyrene	0.116	0.003	0.1670	0	69.2	52	147				
Naphthalene	0.093	0.003	0.1670	0	55.6	54.8	113				
Phenanthrene	0.109	0.003	0.1670	0	65.2	60.4	121				
Pyrene	0.109	0.003	0.1670	0	65.1	57.9	129				
Surr: 2-Fluorobiphenyl	0.109		0.1670		65.5	35.3	113				
Surr: Nitrobenzene-d5	0.100		0.1670		59.7	33.9	108				
Surr: p-Terphenyl-d14	0.111		0.1670		66.5	58.4	122				

Sample ID: 08050415-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/12/2008	RunNo: 108117
Client ID: B-812 9.0-10.0 fMS	Batch ID: 44799	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1946862

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.116	0.004	0.1863	0	62.3	36	135				
Acenaphthylene	0.150	0.004	0.1863	0	80.5	17.2	167				
Anthracene	0.111	0.004	0.1863	0	59.6	39.3	124				
Benzo(a)anthracene	0.116	0.004	0.1863	0	62.5	10	183				
Benzo(a)pyrene	0.129	0.004	0.1863	0	69.3	10	204				
Benzo(b)fluoranthene	0.132	0.004	0.1863	0	71.0	10.6	178				
Benzo(g,h,i)perylene	0.130	0.004	0.1863	0	69.5	10	168				
Benzo(k)fluoranthene	0.130	0.004	0.1863	0	69.7	27.6	181				
Chrysene	0.126	0.004	0.1863	0	67.6	10	176				
Dibenzo(a,h)anthracene	0.136	0.004	0.1863	0	72.9	12.2	156				
Fluoranthene	0.121	0.004	0.1863	0	64.7	10	227				
Fluorene	0.119	0.004	0.1863	0	64.1	35.2	148				
Indeno(1,2,3-cd)pyrene	0.133	0.004	0.1863	0	71.2	10	164				
Naphthalene	0.099	0.004	0.1863	0	53.4	14.7	128				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050415 Report Date: 16-May-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08050415-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/12/2008	RunNo: 108117
Client ID: B-812 9.0-10.0 ftMS	Batch ID: 44799	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1946862

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.121	0.004	0.1863	0	64.7	32.8	143				
Pyrene	0.122	0.004	0.1863	0	65.7	10	180				
Surr: 2-Fluorobiphenyl	0.124		0.1863		66.5	10	131				
Surr: Nitrobenzene-d5	0.116		0.1863		62.5	10	132				
Surr: p-Terphenyl-d14	0.131		0.1863		70.3	30.6	131				

Sample ID: 08050415-002AMS	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/12/2008	RunNo: 108117
Client ID: B-812 9.0-10.0 ftMS	Batch ID: 44799	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1946863

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.118	0.004	0.1879	0	62.8	36	135	0.1161	1.71	49.7	
Acenaphthylene	0.146	0.004	0.1879	0	77.5	17.2	167	0.1499	2.91	33.3	
Anthracene	0.110	0.004	0.1879	0	58.3	39.3	124	0.1110	1.25	51.1	
Benzo(a)anthracene	0.117	0.004	0.1879	0	62.2	10	183	0.1163	0.464	40.6	
Benzo(a)pyrene	0.122	0.004	0.1879	0	65.1	10	204	0.1291	5.36	56.4	
Benzo(b)fluoranthene	0.130	0.004	0.1879	0	69.2	10.6	178	0.1323	1.68	49.7	
Benzo(g,h,i)perylene	0.131	0.004	0.1879	0	69.8	10	168	0.1295	1.25	36.5	
Benzo(k)fluoranthene	0.130	0.004	0.1879	0	69.3	27.6	181	0.1298	0.305	42.6	
Chrysene	0.129	0.004	0.1879	0	68.9	10	176	0.1260	2.72	45.1	
Dibenzo(a,h)anthracene	0.134	0.004	0.1879	0	71.5	12.2	156	0.1358	1.03	39.9	
Fluoranthene	0.122	0.004	0.1879	0	64.8	10	227	0.1205	1.03	66.2	
Fluorene	0.121	0.004	0.1879	0	64.4	35.2	148	0.1195	1.22	65.6	
Indeno(1,2,3-cd)pyrene	0.131	0.004	0.1879	0	69.6	10	164	0.1326	1.45	36.5	
Naphthalene	0.100	0.004	0.1879	0	53.0	14.7	128	0.09943	0.129	39.6	
Phenanthrene	0.119	0.004	0.1879	0	63.5	32.8	143	0.1205	0.957	35.4	
Pyrene	0.122	0.004	0.1879	0	65.1	10	180	0.1224	0.0969	60.1	
Surr: 2-Fluorobiphenyl	0.114		0.1879		60.9	10	131		0	40	
Surr: Nitrobenzene-d5	0.108		0.1879		57.7	10	132		0	40	
Surr: p-Terphenyl-d14	0.121		0.1879		64.5	30.6	131		0	40	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050415 Report Date: 16-May-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>MB-44801</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108147</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44801</b>	<b>SW3550B</b>	Analysis Date: <b>5/14/2008</b>	SeqNo: <b>1947688</b>							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.104		0.1670		62.3	17.5	123				
Surr: Nitrobenzene-d5	0.097		0.1670		57.9	35	105				
Surr: p-Terphenyl-d14	0.121		0.1670		72.7	53.6	122				

Sample ID: <b>LCS-44801</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108147</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44801</b>	<b>SW3550B</b>	Analysis Date: <b>5/14/2008</b>	SeqNo: <b>1947689</b>							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.100	0.003	0.1670	0	59.8	56.3	115				
Acenaphthylene	0.128	0.003	0.1670	0	76.4	60.3	143				
Anthracene	0.103	0.003	0.1670	0	61.6	52.1	109				
Benzo(a)anthracene	0.097	0.003	0.1670	0	58.2	52.8	112				
Benzo(a)pyrene	0.106	0.003	0.1670	0	63.7	40.8	127				
Benzo(b)fluoranthene	0.112	0.003	0.1670	0	67.0	50.1	150				
Benzo(g,h,i)perylene	0.109	0.003	0.1670	0	65.2	52.8	145				

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050415 Report Date: 16-May-08

Sample ID: LCS-44801	SampType: LCS	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108147							
Client ID: ZZZZZZ	Batch ID: 44801	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1947689							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.110	0.003	0.1670	0	65.8	52	153				
Chrysene	0.109	0.003	0.1670	0	65.2	60.8	128				
Dibenzo(a,h)anthracene	0.111	0.003	0.1670	0	66.2	54.9	150				
Fluoranthene	0.103	0.003	0.1670	0	61.5	58.7	125				
Fluorene	0.106	0.003	0.1670	0	63.5	57.8	125				
Indeno(1,2,3-cd)pyrene	0.107	0.003	0.1670	0	64.3	52	147				
Naphthalene	0.090	0.003	0.1670	0	54.1	54.8	113				S
Phenanthrene	0.103	0.003	0.1670	0	61.4	60.4	121				
Pyrene	0.106	0.003	0.1670	0	63.4	57.9	129				
Surr: 2-Fluorobiphenyl	0.096		0.1670		57.7	35.3	113				
Surr: Nitrobenzene-d5	0.087		0.1670		51.9	33.9	108				
Surr: p-Terphenyl-d14	0.109		0.1670		65.5	58.4	122				

Sample ID: 08050415-021AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/12/2008	RunNo: 108147							
Client ID: B-846 20.0-21.0 ftMS	Batch ID: 44801	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1947696							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.107	0.004	0.1841	0.003893	56.1	36	135				
Acenaphthylene	0.134	0.004	0.1841	0	73.0	17.2	167				
Anthracene	0.117	0.004	0.1841	0	63.6	39.3	124				
Benzo(a)anthracene	0.113	0.004	0.1841	0	61.5	10	183				
Benzo(a)pyrene	0.122	0.004	0.1841	0	66.3	10	204				
Benzo(b)fluoranthene	0.128	0.004	0.1841	0	69.5	10.6	178				
Benzo(g,h,i)perylene	0.124	0.004	0.1841	0	67.3	10	168				
Benzo(k)fluoranthene	0.120	0.004	0.1841	0	65.3	27.6	181				
Chrysene	0.122	0.004	0.1841	0	66.4	10	176				
Dibenzo(a,h)anthracene	0.123	0.004	0.1841	0	66.9	12.2	156				
Fluoranthene	0.122	0.004	0.1841	0	66.3	10	227				
Fluorene	0.110	0.004	0.1841	0	59.9	35.2	148				
Indeno(1,2,3-cd)pyrene	0.122	0.004	0.1841	0	66.2	10	164				
Naphthalene	0.097	0.004	0.1841	0.01291	45.4	14.7	128				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050415 Report Date: 16-May-08

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 08050415-021AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/12/2008	RunNo: 108147							
Client ID: B-846 20.0-21.0 fMS	Batch ID: 44801	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1947696							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.124	0.004	0.1841	0.008913	62.5	32.8	143				
Pyrene	0.124	0.004	0.1841	0.004766	64.9	10	180				
Surr: 2-Fluorobiphenyl	0.104		0.1841		56.3	10	131				
Surr: Nitrobenzene-d5	0.108		0.1841		58.7	10	132				
Surr: p-Terphenyl-d14	0.118		0.1841		63.9	30.6	131				

Sample ID: 08050415-021AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/12/2008	RunNo: 108147							
Client ID: B-846 20.0-21.0 fMS	Batch ID: 44801	SW3550B	Analysis Date: 5/14/2008	SeqNo: 1947697							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.107	0.004	0.1794	0.003893	57.6	36	135	0.1072	0.0509	49.7	
Acenaphthylene	0.137	0.004	0.1794	0	76.5	17.2	167	0.1343	2.19	33.3	
Anthracene	0.106	0.004	0.1794	0	59.2	39.3	124	0.1171	9.80	51.1	
Benzo(a)anthracene	0.105	0.004	0.1794	0	58.3	10	183	0.1132	7.88	40.6	
Benzo(a)pyrene	0.112	0.004	0.1794	0	62.3	10	204	0.1221	8.82	56.4	
Benzo(b)fluoranthene	0.117	0.004	0.1794	0	65.3	10.6	178	0.1280	8.81	49.7	
Benzo(g,h,i)perylene	0.113	0.004	0.1794	0	63.0	10	168	0.1240	9.20	36.5	
Benzo(k)fluoranthene	0.116	0.004	0.1794	0	64.4	27.6	181	0.1202	3.94	42.6	
Chrysene	0.117	0.004	0.1794	0	65.0	10	176	0.1222	4.69	45.1	
Dibenzo(a,h)anthracene	0.117	0.004	0.1794	0	65.5	12.2	156	0.1232	4.76	39.9	
Fluoranthene	0.111	0.004	0.1794	0	62.1	10	227	0.1220	9.09	66.2	
Fluorene	0.112	0.004	0.1794	0	62.3	35.2	148	0.1102	1.40	65.6	
Indeno(1,2,3-cd)pyrene	0.114	0.004	0.1794	0	63.4	10	164	0.1220	7.06	36.5	
Naphthalene	0.096	0.004	0.1794	0.01291	46.4	14.7	128	0.09652	0.325	39.6	
Phenanthrene	0.117	0.004	0.1794	0.008913	60.3	32.8	143	0.1240	5.78	35.4	
Pyrene	0.116	0.004	0.1794	0.004766	62.0	10	180	0.1242	6.85	60.1	
Surr: 2-Fluorobiphenyl	0.112		0.1794		62.7	10	131		0	40	
Surr: Nitrobenzene-d5	0.110		0.1794		61.5	10	132		0	40	
Surr: p-Terphenyl-d14	0.122		0.1794		68.3	30.6	131		0	40	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050415 Report Date: 16-May-08

TestCode: SV\_OA2\_S

Sample ID: LCS-44861	SampType: LCS	Units: mg/Kg	Prep Date: 5/14/2008	RunNo: 108200							
Client ID: ZZZZZZ	Batch ID: 44861	SW3550B	Analysis Date: 5/15/2008	SeqNo: 1948905							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	19.3	5.00	16.70	0	115.4	45.8	131				
Surr: n-Tetracontane	0.60		0.6700		89.0	58	130				

Sample ID: MB-44861	SampType: MBLK	Units: mg/Kg	Prep Date: 5/14/2008	RunNo: 108200							
Client ID: ZZZZZZ	Batch ID: 44861	SW3550B	Analysis Date: 5/15/2008	SeqNo: 1948906							
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	0.63		0.6700		94.3	59.5	122				

Sample ID: 08050415-033AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/14/2008	RunNo: 108200							
Client ID: B-847 22.0-23.0 fMS	Batch ID: 44861	SW3550B	Analysis Date: 5/15/2008	SeqNo: 1948908							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	656	144	19.25	562.1	487.0	20.3	167				S#
Surr: n-Tetracontane	0.40		0.7724		52.0	53.9	153				S

Sample ID: 08050415-033AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/14/2008	RunNo: 108200							
Client ID: B-847 22.0-23.0 fMS	Batch ID: 44861	SW3550B	Analysis Date: 5/15/2008	SeqNo: 1948909							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel	976	142	18.98	562.1	2181	20.3	167	655.9	39.2	34	SR#
Surr: n-Tetracontane	0.79		0.7614		104.0	53.9	153		0	0	



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050415 Report Date: 16-May-08

TestCode: V\_BTEX\_S

Sample ID: LCS-G080512-2	SampType: LCS	Units: µg/Kg	Prep Date: 5/12/2008	RunNo: 108042							
Client ID: ZZZZZZ	Batch ID: 44816	SW5035	Analysis Date: 5/12/2008	SeqNo: 1944539							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.4	1.0	50.00	0	102.8	75	123				
Toluene	50.2	5.0	50.00	0	100.3	77.3	117				
Ethylbenzene	46.8	5.0	50.00	0	93.5	80.8	118				
Xylenes, Total	92.8	5.0	100.0	0	92.8	78.5	121				
Surr: 1,2-Dichloroethane-d4	40.9		50.00		81.8	61	128				
Surr: 4-Bromofluorobenzene	50.6		50.00		101.3	78.2	117				
Surr: Dibromofluoromethane	49.5		50.00		99.0	66.6	130				
Surr: Toluene-d8	49.4		50.00		98.9	80.1	122				

Sample ID: LCS-D-G080512-2	SampType: LCS-D	Units: µg/Kg	Prep Date: 5/12/2008	RunNo: 108042							
Client ID: ZZZZZZ	Batch ID: 44816	SW5035	Analysis Date: 5/13/2008	SeqNo: 1944540							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.6	1.0	50.00	0	101.3	75	123	51.42	1.53	20	
Toluene	49.3	5.0	50.00	0	98.6	77.3	117	50.16	1.69	20	
Ethylbenzene	46.4	5.0	50.00	0	92.8	80.8	118	46.75	0.708	20	
Xylenes, Total	91.2	5.0	100.0	0	91.2	78.5	121	92.81	1.76	20	
Surr: 1,2-Dichloroethane-d4	39.7		50.00		79.3	61	128		0	0	
Surr: 4-Bromofluorobenzene	50.4		50.00		100.9	78.2	117		0	0	
Surr: Dibromofluoromethane	49.1		50.00		98.2	66.6	130		0	0	
Surr: Toluene-d8	48.8		50.00		97.6	80.1	122		0	0	

Sample ID: MBLK-G080512-2	SampType: MBLK	Units: µg/Kg	Prep Date: 5/12/2008	RunNo: 108042							
Client ID: ZZZZZZ	Batch ID: 44816	SW5035	Analysis Date: 5/13/2008	SeqNo: 1944542							
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									

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050415

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-G080512-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108042</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44816</b>	<b>SW5035</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1944542</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichloroethane-d4	40.0		50.00		80.0	61	128				
Surr: 4-Bromofluorobenzene	51.1		50.00		102.1	78.2	117				
Surr: Dibromofluoromethane	48.5		50.00		97.0	66.6	130				
Surr: Toluene-d8	49.1		50.00		98.2	80.1	122				

Sample ID: <b>LCS-F080512-2</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108043</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44818</b>	<b>SW5035</b>	Analysis Date: <b>5/12/2008</b>	SeqNo: <b>1944551</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	49.4	1.0	50.00	0	98.9	75	123				
Toluene	48.5	5.0	50.00	0	97.0	77.3	117				
Ethylbenzene	51.5	5.0	50.00	0	103.0	80.8	118				
Xylenes, Total	106	5.0	100.0	0	106.0	78.5	121				
Surr: 1,2-Dichloroethane-d4	48.3		50.00		96.6	61	128				
Surr: 4-Bromofluorobenzene	49.3		50.00		98.5	78.2	117				
Surr: Dibromofluoromethane	49.5		50.00		99.0	66.6	130				
Surr: Toluene-d8	48.9		50.00		97.8	80.1	122				

Sample ID: <b>LCS-D-F080512-2</b>	SampType: <b>LCS-D</b>	Units: <b>µg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108043</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>44818</b>	<b>SW5035</b>	Analysis Date: <b>5/12/2008</b>	SeqNo: <b>1944552</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	50.6	1.0	50.00	0	101.2	75	123	49.44	2.36	20	
Toluene	49.3	5.0	50.00	0	98.7	77.3	117	48.52	1.68	20	
Ethylbenzene	52.4	5.0	50.00	0	104.8	80.8	118	51.51	1.71	20	
Xylenes, Total	109	5.0	100.0	0	108.7	78.5	121	106.0	2.45	20	
Surr: 1,2-Dichloroethane-d4	49.2		50.00		98.4	61	128		0	0	
Surr: 4-Bromofluorobenzene	49.4		50.00		98.8	78.2	117		0	0	
Surr: Dibromofluoromethane	49.8		50.00		99.5	66.6	130		0	0	
Surr: Toluene-d8	48.6		50.00		97.3	80.1	122		0	0	

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050415

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Sample ID: <b>MBLK-F080512-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108043</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44818</b>	<b>SW5035</b>	Analysis Date: <b>5/12/2008</b>	SeqNo: <b>1944554</b>							
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	51.4		50.00		102.7	61	128				
Surr: 4-Bromofluorobenzene	48.6		50.00		97.2	78.2	117				
Surr: Dibromofluoromethane	51.3		50.00		102.6	66.6	130				
Surr: Toluene-d8	48.4		50.00		96.8	80.1	122				

Sample ID: <b>LCS-F080513-1</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>5/13/2008</b>	RunNo: <b>108092</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44849</b>	<b>SW5035</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1946113</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	48.8	1.0	50.00	0	97.7	75	123				
Toluene	48.1	5.0	50.00	0	96.3	77.3	117				
Ethylbenzene	51.9	5.0	50.00	0	103.8	80.8	118				
Xylenes, Total	107	5.0	100.0	0	106.6	78.5	121				
Surr: 1,2-Dichloroethane-d4	49.2		50.00		98.4	61	128				
Surr: 4-Bromofluorobenzene	48.9		50.00		97.8	78.2	117				
Surr: Dibromofluoromethane	50.4		50.00		100.8	66.6	130				
Surr: Toluene-d8	48.9		50.00		97.9	80.1	122				

Sample ID: <b>LCSD-F080513-1</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>5/13/2008</b>	RunNo: <b>108092</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44849</b>	<b>SW5035</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1946114</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	46.0	1.0	50.00	0	92.0	75	123	48.83	5.95	20	
Toluene	44.8	5.0	50.00	0	89.7	77.3	117	48.13	7.10	20	
Ethylbenzene	48.4	5.0	50.00	0	96.9	80.8	118	51.89	6.90	20	
Xylenes, Total	98.7	5.0	100.0	0	98.7	78.5	121	106.6	7.73	20	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050415 Report Date: 16-May-08

TestCode: V\_BTEX\_S

Sample ID: LCSDF080513-1	SampType: LCSDF	Units: µg/Kg	Prep Date: 5/13/2008	RunNo: 108092							
Client ID: ZZZZZZ	Batch ID: 44849	SW5035	Analysis Date: 5/13/2008	SeqNo: 1946114							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	51.2		50.00		102.5	61	128		0	0	0
Surr: 4-Bromofluorobenzene	49.1		50.00		98.2	78.2	117		0	0	0
Surr: Dibromofluoromethane	50.5		50.00		100.9	66.6	130		0	0	0
Surr: Toluene-d8	48.4		50.00		96.9	80.1	122		0	0	0

Sample ID: MBLK-F080513-1	SampType: MBLK	Units: µg/Kg	Prep Date: 5/13/2008	RunNo: 108092							
Client ID: ZZZZZZ	Batch ID: 44849	SW5035	Analysis Date: 5/13/2008	SeqNo: 1946115							
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	50.1		50.00		100.2	61	128				
Surr: 4-Bromofluorobenzene	49.2		50.00		98.3	78.2	117				
Surr: Dibromofluoromethane	50.6		50.00		101.2	66.6	130				
Surr: Toluene-d8	48.9		50.00		97.8	80.1	122				

Sample ID: LCS-F080514-1	SampType: LCS	Units: µg/Kg	Prep Date: 5/14/2008	RunNo: 108135							
Client ID: ZZZZZZ	Batch ID: 44866	SW5035	Analysis Date: 5/14/2008	SeqNo: 1947428							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.9	1.0	50.00		91.8	75	123				
Toluene	45.4	5.0	50.00		90.7	77.3	117				
Ethylbenzene	49.4	5.0	50.00		98.9	80.8	118				
Xylenes, Total	101	5.0	100.0		101.0	78.5	121				
Surr: 1,2-Dichloroethane-d4	54.1		50.00		108.1	61	128				
Surr: 4-Bromofluorobenzene	50.2		50.00		100.3	78.2	117				
Surr: Dibromofluoromethane	52.6		50.00		105.1	66.6	130				
Surr: Toluene-d8	48.2		50.00		96.4	80.1	122				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050415

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_S

Sample ID: LCSD-F080514-1	SampType: LCSD	Units: µg/Kg	Prep Date: 5/14/2008	RunNo: 108135							
Client ID: ZZZZZZ	Batch ID: 44866	SW5035	Analysis Date: 5/14/2008	SeqNo: 1947429							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.2	1.0	50.00	0	94.4	75	123	45.90	2.77	20	
Toluene	46.4	5.0	50.00	0	92.7	77.3	117	45.36	2.16	20	
Ethylbenzene	49.9	5.0	50.00	0	99.7	80.8	118	49.44	0.866	20	
Xylenes, Total	104	5.0	100.0	0	103.6	78.5	121	101.0	2.49	20	
Surr: 1,2-Dichloroethane-d4	54.6		50.00		109.2	61	128		0	0	
Surr: 4-Bromofluorobenzene	50.6		50.00		101.2	78.2	117		0	0	
Surr: Dibromofluoromethane	53.7		50.00		107.4	66.6	130		0	0	
Surr: Toluene-d8	47.7		50.00		95.3	80.1	122		0	0	

Sample ID: MBLK-F080514-1	SampType: MBLK	Units: µg/Kg	Prep Date: 5/14/2008	RunNo: 108135							
Client ID: ZZZZZZ	Batch ID: 44866	SW5035	Analysis Date: 5/14/2008	SeqNo: 1947431							
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	56.5		50.00		113.0	61	128				
Surr: 4-Bromofluorobenzene	49.7		50.00		99.4	78.2	117				
Surr: Dibromofluoromethane	53.4		50.00		106.8	66.6	130				
Surr: Toluene-d8	48.0		50.00		96.0	80.1	122				

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**RECEIVING CHECK LIST****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08050415**Report Date:** 16-May-08**Carrier:** Leslie Hoosier**Received By:** EAH**Completed by:****Reviewed by:****On:**

09-May-08

**On:**

12-May-08

Elizabeth A. Hurley

Marvin L. Darling

Pages to follow: Chain of custody Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 4.6
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Any No responses must be detailed below or on the COC.

One B-847 6.0-7.0 ft jar was labeled "B-847 6.0-8.0 ft." All other containers were labeled correctly. EAH 5/9/08



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230  
(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08050415

COC Serial No. **B** 08649

Project Name: Ameron IP Campaign Project Mgr.: Derek Ingram

Project Number: 62403053 Cost Code: 024501

Sampler(s): L. Hoosier / R. Hison

Laboratory Name: Teklab

Location: Collinsville

Sample Number and (depth)	Date		Time	Matrix				Total Number of Containers
	Sample	Time		Soil	Water	Air	Wipes	
B-812 1.0-2.0'	5/5	1610		X				5
B-812 9.0-10.0	5/5	1625		X				5
B-812 11.0-12.0	5/5	1642		X				5
B-811 <del>2.0-3.0</del> 2.0-3.0	5/5	1715		X				5
B-811 9.0-10.0	5/5	<del>1723</del> 1723		X				5
B-811 11.0-12.0	5/5	1743		X				5

Analyses by Method Name and Number		Comments (Field PID)	Lab ID #'s
BTEX	Metals *		
X	X	* Arsenic, Chromium, lead	08050415-01
X	X		002
X	X		003
X	X		004
X	X		005
X	X		006

Laboratory Temperature upon Receipt  
4.6 °C  
1000

Per Leslie Hoosier, add metals and cyanide to B809 (all depths), B811 (all depths), B843 (2-3 ft and 7-8 ft), B845 (6-7 ft), B803 (2-3 ft, 9-10 ft, and 21-22 ft), B849 (0-1 ft, 9-10 ft, 16-17 ft), B844 (1-2 ft and 8-9 ft), B852 (2-3 ft), and B850 (8-9 ft and 16-17 ft). Add pH to B809 (2-3 ft and 9-10 ft) and B852 (9-10 ft). 244 5/12/08

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

Volatile Organics ..... Hydrochloric acid (HCl)

VOC Soil (5035) ..... Sodium Bisulfate/Methanol

TPH ..... Hydrochloric acid and/or Sulfuric acid

Metals ..... Nitric acid (HNO<sub>3</sub>)

Cyanide ..... Sodium hydroxide (NaOH)

Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:**

Signature: Leslie Hoosier Date: 5/9 Time: 1720

**Received by:**

Signature: Elizabeth A. Huby Date: 5/9/08 Time: 1720



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230  
(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08060415

COC Serial No. **B** 08650

Project Name: America IP Champaign Project Mgr.: Derek Ingram  
Project Number: 62403053 Cost Code: 024501  
Sampler(s): L. Hoosier / R. Hanson

Laboratory Name: TK Lab  
Location: Collinsville

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers	Analyses by Method Name and Number				Comments (Field PID)	Lab ID #'s
			Soil	Water	Air	Wipes		Other *	BTX	PHH	Metals		
B843 2.0-3.0'	5/6	0924	X				5	X	X	X			08060415-007
B843 7.0-8.0'	5/6	0935	X				5	X	X	X			008
B843 10.0-11.0'	5/6	0947	X				5	X	X	X			009
B844 1.0'-2.0'	5/6	1247	X				5	X	X	X			010
B844 4.0- <sup>LH</sup> 8.0-9.0'	5/6	1305	X				5	X	X	X			011
B844 15.0-16.0'	5/6	1340	X				5	X	X	X			012
B851 19.0-20.0'	5/9	1020	X				5	X	X	X			013
B852 20-30'	5/9	1111	X				5	X	X	X			014
B852 9.0-10.0'	5/9	1125	X				5	X	X	X			015
B852 23.0-24.0'	5/9	1142	X				5	X	X	X			016

Laboratory Temperature upon Receipt  
4.6°C  
1000

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid (HNO<sub>3</sub>)
- Metals ..... Nitric acid
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**  
 Requested TAT:  Rush  5 Days  STD  Other  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Derek Ingram Date 5/9 Time 1720

**Received by:** Signature Elizabeth A. Hulby Date 5/9/08 Time 1720





# Chain of Custody Record

210 West Sand Bank Road (618) 281-7173 Phone  
 P.O. Box 230 (800) 733-7173  
 Columbia, IL 62236-0230 (618) 281-5120 Fax

08050415

COC Serial No. **B** 08651

Project Name: American Pro-Champaign-Project Mgr.: Derek Ingram  
 Project Number: 62403033 Cost Code: 624501  
 Sampler(s): L. Hoosier / K. Huson  
 Laboratory Name: Tallah  
 Location: Collinsville

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers	Comments (Field PID)	Lab ID #'s
			Soil	Water	Air	Wipes			
B 845 6.0'-7.0'	5/6	1445	X				5	X X X X	017
B 845 13.0-14.0'	5/6	1500	X				5	X X X X	018
B 846 8.5-9.5'	5/7	6855	X				5	X X X X	019
B 846 10.0-11.0'	5/7	0930	X				5	X X X X	020
B 846 20.0-21.0'	5/7	0954	X				6	X X X X	021
B 803 2.0-3.0	5/7	10 07	X				5	X X X X	022
B 803 9.0-10.0	5/7	1020	X				5	X X X X	023
B 803 21.0-22.0	5/7	1021-1041	X				5	X X X X	024
B 803 29.0-30.0	5/7	1065	X				5	X X X X	025

Analyses by Method Name and Number:  
 BTEX, Metals, Cyanide

Laboratory Temperature upon Receipt: 4.6°C

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid (HNO<sub>3</sub>)
- Metals ..... Nitric acid (NaOH)
- Cyanide ..... Sodium hydroxide
- Other (Specify) .....

**Lab Directives:**  
 Requested TAT:  Rush  5 Days  5TD  Other  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature L. Hoosier Date 5/9 Time 1720

**Received by:** Signature Derek Ingram Date 5/9/08 Time 1730



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230  
(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08050415

COC Serial No. **B** 08653

Project Name: America P Campaign Project Mgr.: Derek Ingram

Project Number: 62403053 Cost Code: 024501

Sampler(s): L. Hoosier / R. Huson

Laboratory Name: Teklab

Location: Collinsville

Sample Number and (depth) Date Time

B849 0.0-1.0' 5/7 1125

B849 9.0-10.0' 5/7 1135

B849 16.0-17.0' 5/7 1155

Total Number of Containers

Matrix

Soil

Water

Air

Wipes

Other \*

X

X

X

Analyses by Method Name and Number

BTEX	X	X	X	X
PAH	X	X	X	X
Metals	X	X	X	X
Cyanide	X	X	X	X

Comments (Field PID)

Lab ID #'s

08050415-026

Laboratory Temperature upon Receipt

4.6°C

1060

### Samples Iced:

Yes  No

### Preservatives (ONLY for Water Samples)

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

### Lab Directives:

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ingram

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

### Shipping:

Carrier / Airbill No.

### Relinquished by:

Signature

Date

Time

Yvonne Hoosier

5/9

1720

### Received by:

Signature

Date

Time

Derek Ingram

5/9/08

1720

Distribution: WHITE to Lab  
PE-179 (6/03)

CANARY to PM

PINK to QA/QC

GREEN to Sampler

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  
(800) 733-7173  
(618) 281-5120 Fax

08050415

COC Serial No. **B** 08654

Project Name: Ameren IP Champagne Project Mgr.: Derek Ingram  
 Project Number: 62403053 Cost Code: 024501  
 Sampler(s): L. Hoosier / R. Huson  
 Laboratory Name: Teklab  
 Location: Collinsville

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers	Analyses by Method Name and Number				Comments (Field PID)	Lab ID #'s
			Soil	Water	Air	Wipes		Other *	PHT	0A2	Metals		
B848 2.0-3.0'	5/7	1545	X				5	X	X				08050415-029
B848 9.0-10.0'	5/7	1555	X				5	X	X				030
B848 13.0-14.0'	5/7	1610	X				5	X	X				031
B847 6.0-7.0'	5/7	1647	X				5	X	X				032
B847 22.0-23.0'	5/7	1718	X				5	X	X				033
B809 2.0-3.0'	5/8	0945	X				5	X	X	X	X		034
B809 9.0-10.0'	5/8	0958	X				5	X	X	X	X		035
B809 15.0-16.0'	5/8	1015	X				5	X	X	X	X		036
B-847 18.5-19.5'	5/7	1710	X				5	X	X	X	No Sample provided - DOI 5/9/08		037
B-847 29.0-30.0'	5/7	1730	X				5	X	X				

Laboratory Temperature upon Receipt  
4.6°C  
10ED

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid (HNO<sub>3</sub>)
- Metals ..... Nitric acid (NaOH)
- Cyanide ..... Sodium hydroxide
- Other (Specify) .....

**Lab Directives:**  
 Requested TAT:  Rush  5 Days  7-10 Days  Other  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature Derek Ingram Date 5/7 Time 1730

**Received by:** Signature Elizabeth A. Huson Date 5/9/08 Time 1730



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08050415

COC Serial No. **B** 08655

Project Name: Amvex Campaign Project Mgr.: Derek Ingram  
 Project Number: 62403053 Cost Code: 02450P  
 Sampler(s): L. Hoosier / R. Huson  
 Laboratory Name: Teklab  
 Location: Collinsville

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers	Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
			Soil	Water	Air	Wipes *				
B850 8.0-9.0	5/8	1130	X				5	BTX PAH OAZ Metals Cyanide	08050415-038	
B850 16.0-17.0'	5/8	1205	X				5		0391	
B850 25.0'-26.0'	5/8	1255	X				5		040	

Laboratory Temperature upon Receipt  
4.6 C  
1000

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

Volatile Organics ..... Hydrochloric acid (HCl)  
 VOC Soil (5035) ..... Sodium Bisulfate/Methanol  
 TPH ..... Hydrochloric acid and/or Sulfuric acid (HNO<sub>3</sub>)  
 Metals ..... Nitric acid (NaOH)  
 Cyanide ..... Sodium hydroxide  
 Other (Specify) .....

**Lab Directives:** Requested TAT:  Rush  5 Days  9TD  Other \_\_\_\_\_  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other \_\_\_\_\_  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_  
 Relinquished by: Yessie Hoosier Signature Date 5/9 Time 1720  
 Received by: Derek Ingram Signature Date 5/9/08 Time 1720

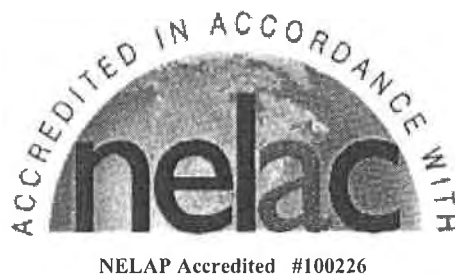
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

May 16, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08050439

Dear Derek Ingram:

TEKLAB, INC received 2 samples on 4/4/2008 5:30:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20

---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050439

**Report Date:** 16-May-08

---

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08050439-001	B832 (2-3 ft)	1	4/4/2008 8:53:00 AM
08050439-002	B832 (7-8 ft)	1	4/4/2008 9:09:00 AM

---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08050439

**Report Date:** 16-May-08

**Cooler Receipt Temp:** °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Additional analysis requested to WO #08040238. Analysis requested outside of hold time for pH, total cyanide, and amenable cyanide.

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050439

**Lab ID:** 08050439-001

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B832 (2-3 ft)

**Collection Date:** 4/4/2008 8:53:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.31		4.16	mg/Kg-dry	1	5/14/2008 4:49:34 PM	LAL
Chromium	NELAP	0.93		17.0	mg/Kg-dry	1	5/14/2008 4:49:34 PM	LAL
Lead	NELAP	3.70		74.2	mg/Kg-dry	1	5/13/2008 11:05:30 PM	LAL
<b><u>SW-846 9010B, 9014</u></b>								
Cyanide	NELAP	0.65	H	7.52	mg/Kg-dry	1	5/13/2008	AET
<b><u>SW-846 9014A</u></b>								
Cyanide, Amenable to Chlorination		0.65	H	Interference	mg/Kg-dry	1	5/14/2008	AET

**Sample Narrative**



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050439

**Lab ID:** 08050439-002

**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B832 (7-8 ft)

**Collection Date:** 4/4/2008 9:09:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		5.99	mg/Kg-dry	1	5/14/2008 4:56:21 PM	LAL
Chromium	NELAP	1.00		25.3	mg/Kg-dry	1	5/14/2008 4:56:21 PM	LAL
Lead	NELAP	4.00		17.8	mg/Kg-dry	1	5/13/2008 11:12:19 PM	LAL
<b><u>SW-846 9010B, 9014</u></b>								
Cyanide	NELAP	0.64	H	< 0.64	mg/Kg-dry	1	5/13/2008	AET
<b><u>SW-846 9014A</u></b>								
Cyanide, Amenable to Chlorination		0.64	H	Interference	mg/Kg-dry	1	5/14/2008	AET
<b><u>SW-846 9045C</u></b>								
pH (1:1)	NELAP	1.00	H	7.80		1	5/13/2008 1:52:00 PM	KNL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**DATES REPORT****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08050439**Report Date:** 16-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050439-001A	B832 (2-3 ft)	4/4/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/13/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
08050439-002A	B832 (7-8 ft)			SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/13/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 9010B, 9014	5/12/2008	5/13/2008
				SW-846 9014A	5/13/2008	5/14/2008
				SW-846 9045C		5/13/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

	Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon
		<b>MI</b> - Matrix interference
		<b>DNI</b> - Did not ignite
		<b>E</b> - Value above quantitation range
		<b>H</b> - Holding time exceeded
		<b>NELAP</b> - IL ELAP and NELAP Accredited

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TCN\_S\_MT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050439      Report Date: 16-May-08

Sample ID: <b>MB-R108067</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108067</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44826</b>	<b>SW9010</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945262</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.01	0.01	0.2000	0	94.1	85	115				

Sample ID: <b>LCS-R108067</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108067</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44826</b>	<b>SW9010</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945263</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.19	0.01	0.2000	0	94.1	85	115				

Sample ID: <b>LCS-D-R108067</b>	SampType: <b>LCS-D</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108067</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44826</b>	<b>SW9010</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945264</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.20	0.01	0.2000	0	99.7	85	115	0.1881	5.84	15	

Sample ID: <b>08050439-002AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108067</b>							
Client ID: <b>B832 (7-8 ft)MS</b>	Batch ID: <b>44826</b>	<b>SW9010</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945271</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	5.53	0.61	6.135	0	90.2	80	120				H

Sample ID: <b>08050439-002AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/12/2008</b>	RunNo: <b>108067</b>							
Client ID: <b>B832 (7-8 ft)MSD</b>	Batch ID: <b>44826</b>	<b>SW9010</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945272</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	5.66	0.61	6.135	0	92.3	80	120	5.533	2.35	20	H

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050439

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: L\_PH\_S\_M

Sample ID: LCS-R108062	SampType: LCS	Units:	Prep Date:	RunNo: 108062							
Client ID: ZZZZZZ	Batch ID: R108062		Analysis Date: 5/13/2008	SeqNo: 1945128							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	7.00	1.00	7.000	0	100	99.1	100.9				

Sample ID: 08050439-002ADUP	SampType: DUP	Units:	Prep Date:	RunNo: 108062							
Client ID: B832 (7-8 ft)DUP	Batch ID: R108062		Analysis Date: 5/13/2008	SeqNo: 1945129							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH (1:1)	7.63	1.00						7.800	2.20	10	H

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050439 Report Date: 16-May-08

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>MB-44806</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/13/2008</b>	RunNo: <b>108079</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44806</b>	<b>SOP 3032</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945559</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: <b>LCS-44806</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/13/2008</b>	RunNo: <b>108079</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44806</b>	<b>SOP 3032</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945560</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	192	2.50	200.0	0	96.2	85	115				
Lead	49.7	4.00	50.00	0	99.4	85	115				

Sample ID: <b>08050439-002AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/13/2008</b>	RunNo: <b>108079</b>							
Client ID: <b>B832 (7-8 ft)MS</b>	Batch ID: <b>44806</b>	<b>SOP 3032</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945573</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	64.9	4.00	50.00	17.75	94.3	75	125				
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Sample ID: <b>08050439-002AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/13/2008</b>	RunNo: <b>108079</b>							
Client ID: <b>B832 (7-8 ft)MSD</b>	Batch ID: <b>44806</b>	<b>SOP 3032</b>	Analysis Date: <b>5/13/2008</b>	SeqNo: <b>1945574</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	63.9	4.00	50.00	17.75	92.2	75	125	64.92	1.65	20	
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Sample ID: <b>MB-44806</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/13/2008</b>	RunNo: <b>108118</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44806</b>	<b>SOP 3032</b>	Analysis Date: <b>5/14/2008</b>	SeqNo: <b>1947235</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	0.64	1.00	1.000	0	64.0	-100	100				J
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Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050439

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: LCS-44806	SampType: LCS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: ZZZZZZ	Batch ID: 44806	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947236							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.7	1.00	20.00	0	98.6	85	115				

Sample ID: 08050439-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B832 (7-8 ft)MS	Batch ID: 44806	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947250							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	191	2.50	200.0	5.990	92.7	75	125				
Chromium	44.9	1.00	20.00	25.34	97.7	75	125				

Sample ID: 08050439-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B832 (7-8 ft)MSD	Batch ID: 44806	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947251							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	196	2.50	200.0	5.990	94.8	75	125	191.3	2.17	20	
Chromium	45.2	1.00	20.00	25.34	99.4	75	125	44.87	0.755	20	

08050439

# CHAIN-OF-CUSTODY RECORD

TEKLAB, INC  
5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
TEL: (618) 344-1004  
FAX: (618) 344-1005

WorkOrder: 08050439

Client: Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120  
Project: A831-735002-012901-225/I  
12-May-08

Sample ID	ClientSampleID	Matrix	Date Collected	Bottle	Requested Tests		
					SW6010B	SW9014	SW9045 C
08050439-001	B832 (2-3 ft)	Solid	4/4/2008 8:53:00 AM	A	A	A	
08050439-002	B832 (7-8 ft)	Solid	4/4/2008 9:09:00 AM	A	A	A	

Comments: data in excel. Additional analysis requested on WO# 08040238 per Leslie Hoosier. EAH 5/12/08

Date/Time	Date/Time
Relinquished by: _____	Received by: <i>[Signature]</i>
Relinquished by: _____	Received by: _____
Relinquished by: _____	Received by: _____

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

May 16, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08050440

Dear Derek Ingram:

TEKLAB, INC received 1 sample on 4/16/2008 10:00:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050440

**Report Date:** 16-May-08

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Lab Sample ID	Client Sample ID	Fractions	Collection Date
08050440-001	B800 (2-3 ft)	1	4/14/2008 12:15:00 PM

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08050440

**Report Date:** 16-May-08

**Cooler Receipt Temp:** °C

### State accreditations:

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Additional analysis requested to WO #08040620. Analysis requested outside of holding time for total cyanide and amenable cyanide.

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050440  
**Lab ID:** 08050440-001  
**Report Date:** 16-May-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** B800 (2-3 ft)  
**Collection Date:** 4/14/2008 12:15:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		6.22	mg/Kg-dry	1	5/14/2008 5:17:14 PM	LAL
Chromium	NELAP	1.00		16.5	mg/Kg-dry	1	5/14/2008 5:17:14 PM	LAL
Lead	NELAP	4.00		74.4	mg/Kg-dry	1	5/15/2008 2:49:37 PM	CRK
<b><u>SW-846 9010B, 9014</u></b>								
Cyanide	NELAP	0.61	JH	0.39	mg/Kg-dry	1	5/14/2008	AET
<b><u>SW-846 9014A</u></b>								
Cyanide, Amenable to Chlorination		0.61	H	Interference	mg/Kg-dry	1	5/14/2008	AET

**Sample Narrative**

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**DATES REPORT****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08050440**Report Date:** 16-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050440-001A	B800 (2-3 ft)	4/14/2008	Solid	SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/13/2008
				SW-846 3050B, 6010B, Metals by ICP	5/13/2008	5/14/2008
				SW-846 3050B, 6010B, Metals by ICP	5/15/2008	5/15/2008
				SW-846 9010B. 9014	5/12/2008	5/14/2008
				SW-846 9014A	5/13/2008	5/14/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level
	<b>C</b> - Client requested RL below PQL
	<b>D</b> - Diluted out of sample
	<b>IDPH</b> - IL Dept. of Public Health
	<b>Q</b> - QC criteria failed
	<b>#</b> - Unknown hydrocarbon
	<b>MI</b> - Matrix interference
	<b>DNI</b> - Did not ignite
	<b>E</b> - Value above quantitation range
	<b>H</b> - Holding time exceeded
	<b>NELAP</b> - IL ELAP and NELAP Accredited

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TCN\_S\_MT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050440      Report Date: 16-May-08

Sample ID: MB-R108067	SampType: MBLK	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44826	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945262
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	< 0.01	0.01		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCS-R108067	SampType: LCS	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44826	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945263
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.19	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		94.1	85	115
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCSD-R108067	SampType: LCSD	Units: mg/Kg	Prep Date: 5/12/2008	RunNo: 108067
Client ID: ZZZZZZ	Batch ID: 44826	SW9010	Analysis Date: 5/13/2008	SeqNo: 1945264
Analyte	Result	PQL	SPK value	SPK Ref Val
Cyanide	0.20	0.01	0.2000	0
		%REC	LowLimit	HighLimit
		99.7	85	115
			RPD Ref Val	%RPD
			RPDLimit	Qual
			0.1881	5.84
				15

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Campaign 62403053  
 Lab Order: 08050440 Report Date: 16-May-08

Sample ID: MB-44806	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108079							
Client ID: ZZZZZZ	Batch ID: 44806	SOP 3032	Analysis Date: 5/13/2008	SeqNo: 1945559							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-44806	SampType: LCS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108079							
Client ID: ZZZZZZ	Batch ID: 44806	SOP 3032	Analysis Date: 5/13/2008	SeqNo: 1945560							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	192	2.50	200.0	0	96.2	85	115				
Lead	49.7	4.00	50.00	0	99.4	85	115				

Sample ID: MB-44806	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: ZZZZZZ	Batch ID: 44806	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947235							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	0.64	1.00	1.000	0	64.0	-100	100				J
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Sample ID: LCS-44806	SampType: LCS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: ZZZZZZ	Batch ID: 44806	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947236							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.7	1.00	20.00	0	98.6	85	115				
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Sample ID: 08050440-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B800 (2-3 ft)MS	Batch ID: 44806	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947253							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	187	2.50	200.0	6.220	90.3	75	125				
Chromium	34.8	1.00	20.00	16.49	91.5	75	125				



Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050440

Report Date: 16-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: 08050440-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/13/2008	RunNo: 108118							
Client ID: B800 (2-3 ft)MSD	Batch ID: 44806	SOP 3032	Analysis Date: 5/14/2008	SeqNo: 1947254							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	195	2.50	200.0	6.220	94.5	75	125	186.8	4.45	20	
Chromium	37.1	1.00	20.00	16.49	103.1	75	125	34.79	6.45	20	

Sample ID: MB-44863	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 5/15/2008	RunNo: 108133							
Client ID: ZZZZZZ	Batch ID: 44863	SOP 3032	Analysis Date: 5/15/2008	SeqNo: 1948451							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: LCS-44863	SampType: LCS	Units: mg/Kg-dry	Prep Date: 5/15/2008	RunNo: 108133							
Client ID: ZZZZZZ	Batch ID: 44863	SOP 3032	Analysis Date: 5/15/2008	SeqNo: 1948452							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.1	1.00	20.00	0	95.6	85	115				
Lead	46.2	4.00	50.00	0	92.4	85	115				

Sample ID: 08050440-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/15/2008	RunNo: 108133							
Client ID: B800 (2-3 ft)MS	Batch ID: 44863	SOP 3032	Analysis Date: 5/15/2008	SeqNo: 1948614							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	130	4.00	50.00	74.40	111.4	75	125				

Sample ID: 08050440-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/15/2008	RunNo: 108133							
Client ID: B800 (2-3 ft)MSD	Batch ID: 44863	SOP 3032	Analysis Date: 5/15/2008	SeqNo: 1948615							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	115	4.00	50.00	74.40	81.0	75	125	130.1	12.4	20	

# ANALYTICAL QC SUMMARY REPORT

TestCode: **M\_SOLIDS\_ICP**

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050440      Report Date: 16-May-08

Sample ID: <b>MB-44863</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/15/2008</b>	RunNo: <b>108193</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44863</b>	<b>SOP 3032</b>	Analysis Date: <b>5/15/2008</b>	SeqNo: <b>1948794</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: <b>LCS-44863</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/15/2008</b>	RunNo: <b>108193</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44863</b>	<b>SOP 3032</b>	Analysis Date: <b>5/15/2008</b>	SeqNo: <b>1948795</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.8	4.00	50.00	0	99.5	85	115				

Sample ID: <b>MB-44863</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/15/2008</b>	RunNo: <b>108224</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44863</b>	<b>SOP 3032</b>	Analysis Date: <b>5/16/2008</b>	SeqNo: <b>1949736</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				

Sample ID: <b>LCS-44863</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/15/2008</b>	RunNo: <b>108224</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>44863</b>	<b>SOP 3032</b>	Analysis Date: <b>5/16/2008</b>	SeqNo: <b>1949737</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	212	2.50	200.0	0	106.0	85	115				
Chromium	21.1	1.00	20.00	0	105.6	85	115				

08050440  
Page 1 of 1

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 08050440

12-May-08

TEKLAB, INC  
5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
TEL: (618) 344-1004  
FAX: (618) 344-1005

Client:  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120  
Project: A831-735002-012901-225/I

Sample ID	ClientSampleID	Matrix	Date Collected	Bottle	Requested Tests		
					SW6010B	SW9014	SW9014 (A)
08050440-001	B800 (2-3 ft)	Solid	4/14/2008 12:15:00 PM	A	A	A	

Comments: data in excel

Relinquished by: _____	Date/Time _____
Relinquished by: _____	Date/Time _____
Relinquished by: _____	Date/Time _____
Received by: <u>[Signature]</u>	Date/Time <u>5/12/08</u>
Received by: _____	Date/Time _____
Received by: _____	Date/Time _____

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

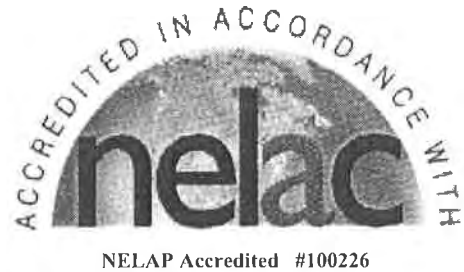
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

May 29, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08050896

Dear Derek Ingram:

TEKLAB, INC received 4 samples on 5/23/2008 11:44:00 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 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,

A handwritten signature in cursive script that reads 'Heather A. White'.

Heather A. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050896

**Report Date:** 29-May-08

---

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08050896-001	B-845 2.0-4.0 ft	1	5/6/2008 2:35:00 PM
08050896-002	B-845 0.0-2.0 ft	1	5/6/2008 2:40:00 PM
08050896-003	B-851 19.0-20.0 ft	1	5/9/2008 10:20:00 AM
08050896-004	B-851 14.0-16.0 ft	1	5/9/2008 10:15:00 AM

---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08050896

**Report Date:** 29-May-08

**Cooler Receipt Temp:** 23.4 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

**DF** - Dilution Factor

**RL** - Reporting Limit

**ND** - Not Detected at the Reporting Limit

**Surr** - Surrogate Standard added by lab

**TNTC** - Too numerous to count (> 200 CFU)

**Q** - QC criteria failed or noncompliant CCV

**NELAP** - IL ELAP and NELAP Accredited Field of Testing

**B** - Analyte detected in the associated Method Blank

**J** - Analyte detected below reporting limits

**R** - RPD outside accepted recovery limits

**S** - Spike Recovery outside accepted recovery limits

**X** - Value exceeds Maximum Contaminant Level

**#** - Unknown hydrocarbon

**IDPH** - IL Dept. of Public Health

**C** - Client requested RL below

**D** - Diluted out of sample

**E** - Value above quantitation range

**H** - Holding time exceeded

**MI** - Matrix interference

**DNI** - Did not ignite

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050896

**Lab ID:** 08050896-001

**Report Date:** 29-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-845 2.0-4.0 ft

**Collection Date:** 5/6/2008 2:35:00 PM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
FOC (0.58 conversion factor)		0.10	H	0.85	wt%	1	5/23/2008	HMH
Organic Matter		0.10	H	1.47	wt%	1	5/23/2008	HMH

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050896**Lab ID:** 08050896-002**Report Date:** 29-May-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** B-845 0.0-2.0 ft**Collection Date:** 5/6/2008 2:40:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10	H	1.77	wt%	1	5/23/2008	HMH
Organic Matter		0.10	H	3.04	wt%	1	5/23/2008	HMH

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050896

**Lab ID:** 08050896-003

**Report Date:** 29-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-851 19.0-20.0 ft

**Collection Date:** 5/9/2008 10:20:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		1.04	wt%	1	5/23/2008	HMH
Organic Matter		0.10		1.79	wt%	1	5/23/2008	HMH

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050896

**Lab ID:** 08050896-004

**Report Date:** 29-May-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-851 14.0-16.0 ft

**Collection Date:** 5/9/2008 10:15:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
FOC (0.58 conversion factor)		0.10		1.40	wt%	1	5/23/2008	HMH
Organic Matter		0.10		2.41	wt%	1	5/23/2008	HMH

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050896

**Report Date:** 29-May-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050896-001A	B-845 2.0-4.0 ft	5/6/2008	Solid	ASTM D2974		5/23/2008
08050896-002A	B-845 0.0-2.0 ft			ASTM D2974		5/23/2008
08050896-003A	B-851 19.0-20.0 ft	5/9/2008		ASTM D2974		5/23/2008
08050896-004A	B-851 14.0-16.0 ft			ASTM D2974		5/23/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

	Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon
		<b>MI</b> - Matrix interference
		<b>DNI</b> - Did not ignite
		<b>E</b> - Value above quantitation range
		<b>H</b> - Holding time exceeded
		<b>NELAP</b> - IL ELAP and NELAP Accredited

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050896

Report Date: 29-May-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: L\_OM\_D\_M

Sample ID: 08050896-004ADUP	SampType: DUP	Units: wt%	Prep Date:	RunNo: 108593							
Client ID: B-851 14.0-16.0 ftDU	Batch ID: R108593		Analysis Date: 5/23/2008	SeqNo: 1955606							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

FOC (0.58 conversion factor)

1.35

0.10

1.401

25

Organic Matter

2.34

0.10

2.415

25

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## RECEIVING CHECK LIST

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050896

**Report Date:** 29-May-08

**Carrier:** Rachael Hunson

**Received By:** AMH

**Completed by:**

**On:**  
23-May-08

*A. Harris*  
Amanda M. Harris

**Reviewed by:**

**On:**  
23-May-08

*Elizabeth A. Hurley*  
Elizabeth A. Hurley

Pages to follow: Chain of custody  Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 23.4
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input checked="" type="checkbox"/>	Ice <input type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.

Samples received did not meet hold time requirements. Per Derek Ingram, continue with analysis out of hold time. EAH 5/23/08

The samples were out of temperature compliance upon receipt. Per Richard Husan, continue with analysis out of temperature compliance. AMH 5/23/08



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08050896  
COC Serial No. B 08885

Project Name: American Campaign Project Mgr.: Derek Ferguson  
Project Number: 62403053 Cost Code: 024501  
Sampler(s): R. Huson

Laboratory Name: Tex Lab  
Location: Collinsville

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers
			Soil	Water	Air	Wipes	
B-845 2.0-4.0'	5/6	1435	X				1
B-845 0.0-2.0'	5/6	1440	X				1
B-851 19.0-20.0'	5/6	1020	X				1
B-851 14.0-16.0'	5/6	1015	X				1

Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
For D2974-87		08050896-001
		002
		003
		004

Laboratory Temperature upon Receipt  
83.4

ok to proceed  
awog temp per lab

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

Volatile Organics ..... Hydrochloric acid (HCl)

VOC Soil (5035) ..... Sodium Bisulfate/Methanol

TPH ..... Hydrochloric acid and/or Sulfuric acid

Metals ..... Nitric acid (HNO<sub>3</sub>)

Cyanide ..... Sodium hydroxide (NaOH)

Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: Derek Ferguson

Send Invoice to: \_\_\_\_\_

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:**

Signature: Richard Huson Date: 5/23/08 Time: 1144

**Received by:**

Signature: G. Wilson Date: 5/23/08 Time: 11:40

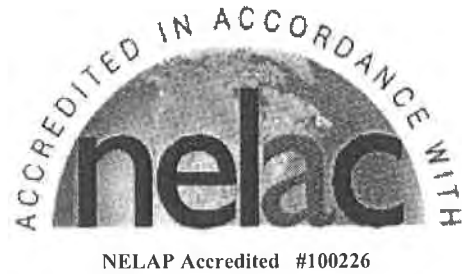
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

July 02, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08060976

Dear Derek Ingram:

TEKLAB, INC received 9 samples on 6/27/2008 3:20:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08060976

**Report Date:** 02-Jul-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08060976-001	B-853 (2.0-3.0 ft)	4	6/23/2008 2:17:00 PM
08060976-002	B-853 (4.0-5.0 ft)	4	6/23/2008 2:48:00 PM
08060976-003	B-853 (29.0-30.0 ft)	4	6/23/2008 4:05:00 PM
08060976-004	B-854 (2.0-3.0 ft)	4	6/24/2008 2:22:00 PM
08060976-005	B-854 (7.0-8.0 ft)	4	6/24/2008 2:50:00 PM
08060976-006	B-854 (38.0-39.0 ft)	4	6/24/2008 4:06:00 PM
08060976-007	B-855 (2.0-3.0 ft)	4	6/26/2008 8:20:00 AM
08060976-008	B-855 (6.0-7.0 ft)	4	6/26/2008 8:40:00 AM
08060976-009	B-855 (33.0-34.0 ft)	4	6/26/2008 9:50:00 AM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08060976

**Report Date:** 02-Jul-08

**Cooler Receipt Temp:** 4.4 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08060976

Client Sample ID: B-853 (2.0-3.0 ft)

Lab ID: 08060976-001

Collection Date: 6/23/2008 2:17:00 PM

Report Date: 02-Jul-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		14.6	%	1	6/30/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		85.4	%	1	6/30/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Acenaphthylene	NELAP	0.004		0.011	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.031	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		0.037	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.050	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.026	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.017	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Chrysene	NELAP	0.004		0.040	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Fluoranthene	NELAP	0.004		0.055	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.022	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Phenanthrene	NELAP	0.004		0.032	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Pyrene	NELAP	0.004		0.057	mg/Kg-dry	1	7/1/2008 10:04:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		50.1	%REC	1	7/1/2008 10:04:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		47.5	%REC	1	7/1/2008 10:04:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		73.1	%REC	1	7/1/2008 10:04:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.0	µg/Kg-dry	1	6/30/2008 1:28:00 PM	JSA
Ethylbenzene	NELAP	4.4	J	1.9	µg/Kg-dry	1	6/30/2008 1:28:00 PM	JSA
Toluene	NELAP	4.4	J	1.7	µg/Kg-dry	1	6/30/2008 1:28:00 PM	JSA
Xylenes, Total	NELAP	4.4	J	2.2	µg/Kg-dry	1	6/30/2008 1:28:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		105.8	%REC	1	6/30/2008 1:28:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		105.2	%REC	1	6/30/2008 1:28:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		97.9	%REC	1	6/30/2008 1:28:00 PM	JSA
Surr: Toluene-d8		80.1-122		102.3	%REC	1	6/30/2008 1:28:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08060976

Lab ID: 08060976-002

Report Date: 02-Jul-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-853 (4.0-5.0 ft)

Collection Date: 6/23/2008 2:48:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		19.4	%	1	6/30/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		80.6	%	1	6/30/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Benzo(a)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.004	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 11:50:00 AM	TDN
Surr: 2-Fluorobiphenyl		10-131		32.1	%REC	1	7/1/2008 11:50:00 AM	TDN
Surr: Nitrobenzene-d5		10-132		44.7	%REC	1	7/1/2008 11:50:00 AM	TDN
Surr: p-Terphenyl-d14		30.6-131		74.3	%REC	1	7/1/2008 11:50:00 AM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		ND	µg/Kg-dry	1	6/30/2008 1:58:00 PM	JSA
Ethylbenzene	NELAP	4.5		ND	µg/Kg-dry	1	6/30/2008 1:58:00 PM	JSA
Toluene	NELAP	4.5	J	1.1	µg/Kg-dry	1	6/30/2008 1:58:00 PM	JSA
Xylenes, Total	NELAP	4.5	J	1.6	µg/Kg-dry	1	6/30/2008 1:58:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		101.8	%REC	1	6/30/2008 1:58:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.8	%REC	1	6/30/2008 1:58:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		99.9	%REC	1	6/30/2008 1:58:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.0	%REC	1	6/30/2008 1:58:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08060976

Lab ID: 08060976-003

Report Date: 02-Jul-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-853 (29.0-30.0 ft)

Collection Date: 6/23/2008 4:05:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		10.3	%	1	6/30/2008	TWM
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		89.7	%	1	6/30/2008	TWM
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Chrysene	NELAP	0.004		0.004	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Fluoranthene	NELAP	0.004		0.004	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Phenanthrene	NELAP	0.004		0.004	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	7/1/2008 12:25:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		42.5	%REC	1	7/1/2008 12:25:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		43.7	%REC	1	7/1/2008 12:25:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		70.3	%REC	1	7/1/2008 12:25:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.9		1.4	µg/Kg-dry	1	6/30/2008 2:28:00 PM	JSA
Ethylbenzene	NELAP	4.3	J	1.0	µg/Kg-dry	1	6/30/2008 2:28:00 PM	JSA
Toluene	NELAP	4.3	J	2.0	µg/Kg-dry	1	6/30/2008 2:28:00 PM	JSA
Xylenes, Total	NELAP	4.3	J	4.1	µg/Kg-dry	1	6/30/2008 2:28:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		111.2	%REC	1	6/30/2008 2:28:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117	S	76.6	%REC	1	6/30/2008 2:28:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		108.8	%REC	1	6/30/2008 2:28:00 PM	JSA
Surr: Toluene-d8		80.1-122		84.9	%REC	1	6/30/2008 2:28:00 PM	JSA

### Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to matrix interference.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08060976

Client Sample ID: B-854 (2.0-3.0 ft)

Lab ID: 08060976-004

Collection Date: 6/24/2008 2:22:00 PM

Report Date: 02-Jul-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		18.2	%	1	7/1/2008	JMT
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		81.8	%	1	7/1/2008	JMT
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.004	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.021	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.019	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.026	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.011	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Chrysene	NELAP	0.004		0.021	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Fluoranthene	NELAP	0.004		0.035	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Phenanthrene	NELAP	0.004		0.017	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Pyrene	NELAP	0.004		0.031	mg/Kg-dry	1	7/1/2008 1:00:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		35.1	%REC	1	7/1/2008 1:00:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		45.5	%REC	1	7/1/2008 1:00:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		81.4	%REC	1	7/1/2008 1:00:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		ND	µg/Kg-dry	1	6/30/2008 2:57:00 PM	JSA
Ethylbenzene	NELAP	5.0		ND	µg/Kg-dry	1	6/30/2008 2:57:00 PM	JSA
Toluene	NELAP	5.0		ND	µg/Kg-dry	1	6/30/2008 2:57:00 PM	JSA
Xylenes, Total	NELAP	5.0	J	1.1	µg/Kg-dry	1	6/30/2008 2:57:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		108.4	%REC	1	6/30/2008 2:57:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		101.1	%REC	1	6/30/2008 2:57:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		101.6	%REC	1	6/30/2008 2:57:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.5	%REC	1	6/30/2008 2:57:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08060976

Client Sample ID: B-854 (7.0-8.0 ft)

Lab ID: 08060976-005

Collection Date: 6/24/2008 2:50:00 PM

Report Date: 02-Jul-08

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		12.8	%	1	7/1/2008	JMT
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		87.2	%	1	7/1/2008	JMT
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 1:35:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		23.8	%REC	1	7/1/2008 1:35:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		35.3	%REC	1	7/1/2008 1:35:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		75.8	%REC	1	7/1/2008 1:35:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.8		8.2	µg/Kg-dry	1	6/30/2008 3:26:00 PM	JSA
Ethylbenzene	NELAP	4.2	J	1.9	µg/Kg-dry	1	6/30/2008 3:26:00 PM	JSA
Toluene	NELAP	4.2		7.2	µg/Kg-dry	1	6/30/2008 3:26:00 PM	JSA
Xylenes, Total	NELAP	4.2		4.6	µg/Kg-dry	1	6/30/2008 3:26:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		102.5	%REC	1	6/30/2008 3:26:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		100.2	%REC	1	6/30/2008 3:26:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		98.5	%REC	1	6/30/2008 3:26:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.6	%REC	1	6/30/2008 3:26:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08060976

Lab ID: 08060976-006

Report Date: 02-Jul-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-854 (38.0-39.0 ft)

Collection Date: 6/24/2008 4:06:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		17.7	%	1	7/1/2008	JMT
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		82.3	%	1	7/1/2008	JMT
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:10:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		37.7	%REC	1	7/1/2008 2:10:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		38.1	%REC	1	7/1/2008 2:10:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		71.5	%REC	1	7/1/2008 2:10:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		1.4	µg/Kg-dry	1	6/30/2008 3:55:00 PM	JSA
Ethylbenzene	NELAP	4.8		ND	µg/Kg-dry	1	6/30/2008 3:55:00 PM	JSA
Toluene	NELAP	4.8	J	2.3	µg/Kg-dry	1	6/30/2008 3:55:00 PM	JSA
Xylenes, Total	NELAP	4.8	J	1.8	µg/Kg-dry	1	6/30/2008 3:55:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		106.1	%REC	1	6/30/2008 3:55:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		91.7	%REC	1	6/30/2008 3:55:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		101.5	%REC	1	6/30/2008 3:55:00 PM	JSA
Surr: Toluene-d8		80.1-122		95.5	%REC	1	6/30/2008 3:55:00 PM	JSA

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08060976

Lab ID: 08060976-007

Report Date: 02-Jul-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-855 (2.0-3.0 ft)

Collection Date: 6/26/2008 8:20:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		15.8	%	1	7/1/2008	JMT
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		84.2	%	1	7/1/2008	JMT
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Acenaphthylene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.018	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		0.020	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		0.028	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.015	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		0.013	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Chrysene	NELAP	0.004		0.021	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Fluoranthene	NELAP	0.004		0.034	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.014	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Phenanthrene	NELAP	0.004		0.022	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Pyrene	NELAP	0.004		0.030	mg/Kg-dry	1	7/1/2008 2:45:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		35.7	%REC	1	7/1/2008 2:45:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		38.3	%REC	1	7/1/2008 2:45:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		72.3	%REC	1	7/1/2008 2:45:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		ND	µg/Kg-dry	1	6/30/2008 4:25:00 PM	JSA
Ethylbenzene	NELAP	4.9		ND	µg/Kg-dry	1	6/30/2008 4:25:00 PM	JSA
Toluene	NELAP	4.9		ND	µg/Kg-dry	1	6/30/2008 4:25:00 PM	JSA
Xylenes, Total	NELAP	4.9		ND	µg/Kg-dry	1	6/30/2008 4:25:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		108.2	%REC	1	6/30/2008 4:25:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		99.1	%REC	1	6/30/2008 4:25:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		100.8	%REC	1	6/30/2008 4:25:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.3	%REC	1	6/30/2008 4:25:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08060976

**Lab ID:** 08060976-008

**Report Date:** 02-Jul-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** B-855 (6.0-7.0 ft)

**Collection Date:** 6/26/2008 8:40:00 AM

**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		20.1	%	1	7/1/2008	JMT
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		79.9	%	1	7/1/2008	JMT
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:20:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		22.6	%REC	1	7/1/2008 3:20:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		36.9	%REC	1	7/1/2008 3:20:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		78.4	%REC	1	7/1/2008 3:20:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	1.0		3.5	µg/Kg-dry	1	6/30/2008 4:55:00 PM	JSA
Ethylbenzene	NELAP	5.3	J	3.6	µg/Kg-dry	1	6/30/2008 4:55:00 PM	JSA
Toluene	NELAP	5.3		9.1	µg/Kg-dry	1	6/30/2008 4:55:00 PM	JSA
Xylenes, Total	NELAP	5.3		7.3	µg/Kg-dry	1	6/30/2008 4:55:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		76.1	%REC	1	6/30/2008 4:55:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		116.8	%REC	1	6/30/2008 4:55:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		71.8	%REC	1	6/30/2008 4:55:00 PM	JSA
Surr: Toluene-d8		80.1-122		115.1	%REC	1	6/30/2008 4:55:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08060976

Lab ID: 08060976-009

Report Date: 02-Jul-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: B-855 (33.0-34.0 ft)

Collection Date: 6/26/2008 9:50:00 AM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>ASTM D2974</b>								
Percent Moisture		0.1		13.8	%	1	7/1/2008	JMT
<b>STANDARD METHODS 18TH ED. 2540 G</b>								
Total Solids		0.1		86.2	%	1	7/1/2008	JMT
<b>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Benzo(a)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.004		0.004	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Chrysene	NELAP	0.004		0.004	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Phenanthrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	7/1/2008 3:55:00 PM	TDN
Surr: 2-Fluorobiphenyl		10-131		31.1	%REC	1	7/1/2008 3:55:00 PM	TDN
Surr: Nitrobenzene-d5		10-132		28.5	%REC	1	7/1/2008 3:55:00 PM	TDN
Surr: p-Terphenyl-d14		30.6-131		65.1	%REC	1	7/1/2008 3:55:00 PM	TDN
<b>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	0.7		1.2	µg/Kg-dry	1	6/30/2008 5:24:00 PM	JSA
Ethylbenzene	NELAP	3.7		ND	µg/Kg-dry	1	6/30/2008 5:24:00 PM	JSA
Toluene	NELAP	3.7	J	1.5	µg/Kg-dry	1	6/30/2008 5:24:00 PM	JSA
Xylenes, Total	NELAP	3.7	J	1.4	µg/Kg-dry	1	6/30/2008 5:24:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		105.2	%REC	1	6/30/2008 5:24:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		85.7	%REC	1	6/30/2008 5:24:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		103.1	%REC	1	6/30/2008 5:24:00 PM	JSA
Surr: Toluene-d8		80.1-122		94.2	%REC	1	6/30/2008 5:24:00 PM	JSA

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08060976

**Report Date:** 02-Jul-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08060976-001A	B-853 (2.0-3.0 ft)	6/23/2008	Solid	ASTM D2974		6/30/2008
				Standard Methods 18th Ed. 2540 G		6/30/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008
08060976-002A	B-853 (4.0-5.0 ft)			ASTM D2974		6/30/2008
				Standard Methods 18th Ed. 2540 G		6/30/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008
08060976-003A	B-853 (29.0-30.0 ft)			ASTM D2974		6/30/2008
				Standard Methods 18th Ed. 2540 G		6/30/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008
08060976-004A	B-854 (2.0-3.0 ft)	6/24/2008		ASTM D2974		7/1/2008
				Standard Methods 18th Ed. 2540 G		7/1/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008
08060976-005A	B-854 (7.0-8.0 ft)			ASTM D2974		7/1/2008
				Standard Methods 18th Ed. 2540 G		7/1/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008
08060976-006A	B-854 (38.0-39.0 ft)			ASTM D2974		7/1/2008
				Standard Methods 18th Ed. 2540 G		7/1/2008

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08060976

**Report Date:** 02-Jul-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08060976-006A	B-854 (38.0-39.0 ft)	6/24/2008	Solid	SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-006D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008
08060976-007A	B-855 (2.0-3.0 ft)	6/26/2008		ASTM D2974		7/1/2008
				Standard Methods 18th Ed. 2540 G		7/1/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-007D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008
08060976-008A	B-855 (6.0-7.0 ft)			ASTM D2974		7/1/2008
				Standard Methods 18th Ed. 2540 G		7/1/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-008D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008
08060976-009A	B-855 (33.0-34.0 ft)			ASTM D2974		7/1/2008
				Standard Methods 18th Ed. 2540 G		7/1/2008
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	6/30/2008	7/1/2008
08060976-009D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	6/30/2008	6/30/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

		Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Test Number:** M2540 G

**Lab Order:** 08060976

**Report Date:** 02-Jul-08

Sample ID: LCS-R110039	SampType: LCS	Units: %	Prep Date:	RunNo: 110039							
Client ID: ZZZZZZ	Batch ID: R110039		Analysis Date: 6/30/2008	SeqNo: 1989633							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	101.0	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 110039							
Client ID: ZZZZZZ	Batch ID: R110039		Analysis Date: 6/30/2008	SeqNo: 1989634							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: 08060976-003ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 110039							
Client ID: B-853 (29.0-30.0 ft)D	Batch ID: R110039		Analysis Date: 6/30/2008	SeqNo: 1989638							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	90.8	0.1						89.69	1.26	15	

Sample ID: LCS-R110085	SampType: LCS	Units: %	Prep Date:	RunNo: 110085							
Client ID: ZZZZZZ	Batch ID: R110085		Analysis Date: 7/1/2008	SeqNo: 1990925							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 110085							
Client ID: ZZZZZZ	Batch ID: R110085		Analysis Date: 7/1/2008	SeqNo: 1990926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	95.0	90	110				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060976

Report Date: 02-Jul-08

Test Number: M2540 G

Sample ID: 08060976-009ADUP	Samp Type: DUP	Units: %	Prep Date:	RunNo: 110085							
Client ID: B-855 (33.0-34.0 ft)D	Batch ID: R110085		Analysis Date: 7/1/2008	SeqNo: 1990933							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	86.7	0.1						86.15	0.613		15



# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08060976

**Report Date:** 02-Jul-08

**Test Number:** SW8260B

Sample ID: <b>LCS1-G080630-1</b>	SampType: <b>LCS1</b>	Units: <b>µg/Kg</b>	Prep Date: <b>6/30/2008</b>	RunNo: <b>109994</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45914</b>	<b>SW5035</b>	Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1988877</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	24.6	1.0	21.20	0	115.8	70	130				
Toluene	174	5.0	183.6	0	95.0	70	130				
Ethylbenzene	34.8	5.0	36.80	0	94.7	70	130				
Xylenes, Total	201	5.0	211.6	0	95.0	70	130				
Surr: 1,2-Dichloroethane-d4	49.5		50.00		99.1	61	128				
Surr: 4-Bromofluorobenzene	52.0		50.00		104.1	78.2	117				
Surr: Dibromofluoromethane	49.4		50.00		98.8	66.6	130				
Surr: Toluene-d8	50.1		50.00		100.1	80.1	122				

Sample ID: <b>LCS1D-G080630-1</b>	SampType: <b>LCS1D</b>	Units: <b>µg/Kg</b>	Prep Date: <b>6/30/2008</b>	RunNo: <b>109994</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45914</b>	<b>SW5035</b>	Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1988878</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	23.9	1.0	21.20	0	112.9	70	130	24.56	2.56	20	
Toluene	171	5.0	183.6	0	93.1	70	130	174.3	1.98	20	
Ethylbenzene	33.5	5.0	36.80	0	91.1	70	130	34.84	3.80	20	
Xylenes, Total	195	5.0	211.6	0	92.2	70	130	200.9	2.97	20	
Surr: 1,2-Dichloroethane-d4	50.8		50.00		101.6	61	128		0	0	
Surr: 4-Bromofluorobenzene	51.7		50.00		103.3	78.2	117		0	0	
Surr: Dibromofluoromethane	50.4		50.00		100.7	66.6	130		0	0	
Surr: Toluene-d8	50.1		50.00		100.2	80.1	122		0	0	

Sample ID: <b>MBLK-G080630-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>6/30/2008</b>	RunNo: <b>109994</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45914</b>	<b>SW5035</b>	Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1988879</b>							
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									

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign 62403053  
**Lab Order:** 08060976      **Report Date:** 02-Jul-08

**Test Number: SW8260B**

Sample ID: <b>MBLK-G080630-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>6/30/2008</b>	RunNo: <b>109994</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>45914</b>	<b>SW5035</b>	Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1988879</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichloroethane-d4	48.8		50.00		97.5	61	128				
Surr: 4-Bromofluorobenzene	51.6		50.00		103.2	78.2	117				
Surr: Dibromofluoromethane	49.1		50.00		98.1	66.6	130				
Surr: Toluene-d8	50.1		50.00		100.1	80.1	122				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060976

Report Date: 02-Jul-08

Test Number: SW8270C

Sample ID: <b>MB-45894</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/30/2008</b>	RunNo: <b>110017</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>45894</b>	<b>SW3550B</b>	Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1989245</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.120		0.1670		71.7	17.5		123			
Surr: Nitrobenzene-d5	0.105		0.1670		62.9	35		105			
Surr: p-Terphenyl-d14	0.137		0.1670		82.2	53.6		122			

Sample ID: <b>LCS-45894</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/30/2008</b>	RunNo: <b>110017</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>45894</b>	<b>SW3550B</b>	Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1989246</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.131	0.003	0.1670	0	78.4	56.3		115			
Acenaphthylene	0.164	0.003	0.1670	0	98.0	60.3		143			
Anthracene	0.126	0.003	0.1670	0	75.5	52.1		109			
Benzo(a)anthracene	0.127	0.003	0.1670	0	76.2	52.8		112			
Benzo(a)pyrene	0.131	0.003	0.1670	0	78.5	40.8		127			
Benzo(b)fluoranthene	0.139	0.003	0.1670	0	83.2	50.1		150			

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08060976 Report Date: 02-Jul-08

Test Number: SW8270C

Sample ID: LCS-45894	SampType: LCS	Units: mg/Kg	Prep Date: 6/30/2008	RunNo: 110017
Client ID: ZZZZZZ	Batch ID: 45894	SW3550B	Analysis Date: 6/30/2008	SeqNo: 1989246

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	0.136	0.003	0.1670	0	81.6	52.8	145				
Benzo(k)fluoranthene	0.144	0.003	0.1670	0	86.1	52	153				
Chrysene	0.144	0.003	0.1670	0	86.0	60.8	128				
Dibenzo(a,h)anthracene	0.137	0.003	0.1670	0	81.9	54.9	150				
Fluoranthene	0.134	0.003	0.1670	0	80.3	58.7	125				
Fluorene	0.129	0.003	0.1670	0	77.0	57.8	125				
Indeno(1,2,3-cd)pyrene	0.135	0.003	0.1670	0	81.1	52	147				
Naphthalene	0.104	0.003	0.1670	0	62.0	54.8	113				
Phenanthrene	0.133	0.003	0.1670	0	79.4	60.4	121				
Pyrene	0.138	0.003	0.1670	0	82.7	57.9	129				
Surr: 2-Fluorobiphenyl	0.139		0.1670		83.4	35.3	113				
Surr: Nitrobenzene-d5	0.124		0.1670		74.3	33.9	108				
Surr: p-Terphenyl-d14	0.141		0.1670		84.6	58.4	122				

Sample ID: 08060976-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 6/30/2008	RunNo: 110060
Client ID: B-853 (2.0-3.0 ft)MS	Batch ID: 45894	SW3550B	Analysis Date: 7/1/2008	SeqNo: 1990250

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.151	0.004	0.1940	0	78.1	36	135				
Acenaphthylene	0.209	0.004	0.1940	0.01064	102.5	17.2	167				
Anthracene	0.171	0.004	0.1940	0.006781	84.5	39.3	124				
Benzo(a)anthracene	0.181	0.004	0.1940	0.03114	77.4	10	183				
Benzo(a)pyrene	0.207	0.004	0.1940	0.03722	87.3	10	204				
Benzo(b)fluoranthene	0.214	0.004	0.1940	0.04973	84.7	10.6	178				
Benzo(g,h,i)perylene	0.158	0.004	0.1940	0.02631	68.1	10	168				
Benzo(k)fluoranthene	0.195	0.004	0.1940	0.01707	91.8	27.6	181				
Chrysene	0.201	0.004	0.1940	0.03998	83.2	10	176				
Dibenzo(a,h)anthracene	0.147	0.004	0.1940	0.006976	72.2	12.2	156				
Fluoranthene	0.210	0.004	0.1940	0.05546	79.4	10	227				
Fluorene	0.157	0.004	0.1940	0	80.9	35.2	148				

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08060976

**Report Date:** 02-Jul-08

**Test Number:** SW8270C

Sample ID: <b>08060976-001AMS</b>	Samp Type: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/30/2008</b>	RunNo: <b>110060</b>
Client ID: <b>B-853 (2.0-3.0 f)MS</b>	Batch ID: <b>45894</b>	<b>SW3550B</b>	Analysis Date: <b>7/1/2008</b>	SeqNo: <b>1990250</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	0.163	0.004	0.1940	0.02206	72.5	10	164				
Naphthalene	0.141	0.004	0.1940	0	72.8	14.7	128				
Phenanthrene	0.190	0.004	0.1940	0.03211	81.4	32.8	143				
Pyrene	0.215	0.004	0.1940	0.05725	81.5	10	180				
Surr: 2-Fluorobiphenyl	0.124		0.1940		63.9	10	131				
Surr: Nitrobenzene-d5	0.111		0.1940		57.3	10	132				
Surr: p-Terphenyl-d14	0.141		0.1940		72.7	30.6	131				

Sample ID: <b>08060976-001AMS</b>	Samp Type: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/30/2008</b>	RunNo: <b>110060</b>
Client ID: <b>B-853 (2.0-3.0 f)MS</b>	Batch ID: <b>45894</b>	<b>SW3550B</b>	Analysis Date: <b>7/1/2008</b>	SeqNo: <b>1990251</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.121	0.004	0.1926	0	62.8	36	135	0.1514	22.4	49.7	
Acenaphthylene	0.160	0.004	0.1926	0.01064	77.4	17.2	167	0.2094	27.0	33.3	
Anthracene	0.123	0.004	0.1926	0.006781	60.1	39.3	124	0.1708	32.8	51.1	
Benzo(a)anthracene	0.130	0.004	0.1926	0.03114	51.1	10	183	0.1812	33.2	40.6	
Benzo(a)pyrene	0.145	0.004	0.1926	0.03722	55.8	10	204	0.2066	35.3	56.4	
Benzo(b)fluoranthene	0.149	0.004	0.1926	0.04973	51.7	10.6	178	0.2139	35.6	49.7	
Benzo(g,h,i)perylene	0.118	0.004	0.1926	0.02631	47.7	10	168	0.1584	29.0	36.5	
Benzo(k)fluoranthene	0.144	0.004	0.1926	0.01707	66.1	27.6	181	0.1952	29.9	42.6	
Chrysene	0.144	0.004	0.1926	0.03998	53.8	10	176	0.2013	33.4	45.1	
Dibenzo(a,h)anthracene	0.115	0.004	0.1926	0.006976	56.0	12.2	156	0.1469	24.5	39.9	
Fluoranthene	0.144	0.004	0.1926	0.05546	45.8	10	227	0.2095	37.3	66.2	
Fluorene	0.123	0.004	0.1926	0	63.8	35.2	148	0.1570	24.3	65.6	
Indeno(1,2,3-cd)pyrene	0.124	0.004	0.1926	0.02206	52.8	10	164	0.1626	27.1	36.5	
Naphthalene	0.105	0.004	0.1926	0	54.7	14.7	128	0.1413	29.1	39.6	
Phenanthrene	0.136	0.004	0.1926	0.03211	53.8	32.8	143	0.1899	33.2	35.4	
Pyrene	0.149	0.004	0.1926	0.05725	47.4	10	180	0.2154	36.7	60.1	
Surr: 2-Fluorobiphenyl	0.084		0.1926		43.7	10	131		0	40	
Surr: Nitrobenzene-d5	0.079		0.1926		41.1	10	132		0	40	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Campaign 62403053

Lab Order: 08060976

Report Date: 02-Jul-08

Test Number: SW8270C

Sample ID: 08060976-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 6/30/2008	RunNo: 110060							
Client ID: B-853 (2.0-3.0 ft)MS	Batch ID: 45894	SW3550B	Analysis Date: 7/1/2008	SeqNo: 1990251							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl-d14	0.116		0.1926		60.3	30.6	131		0	40	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**RECEIVING CHECK LIST****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08060976**Report Date:** 02-Jul-08

Carrier: Rachael Husan

Received By: EC

Completed by:

On:

27-Jun-08

Erin Clarke

Reviewed by:

On:

28-Jun-08

Elizabeth A. Hurley

Pages to follow: Chain of custody Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 4.4
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230  
(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08060976  
COC Serial No. **B** 08884

Project Name: Ameren IP Campaign Project Mgr.: Derek Ingram

Project Number: 60243053 Cost Code: 024501

Sampler(s): R. Husan

Laboratory Name: TekLab

Location: Columbia, IL

Sample Number and (depth)	Date	Time	Matrix			
			Soil	Water	Air	Wipes
B-853 (2.0-3.0')	6/23	1417	X			
B-853 (5.0-7.0') (4.0-5.0')	6/23	1448	X			
B-853 (29.0-30.0')	6/23	1605	X			
B-854 (2.0-3.0')	6/24	1422	X			
B-854 (7.0-8.0')	6/24	1450	X			
B-854 (38.0-39.0')	6/24	1600	X			
B-855 (2.0-3.0')	6/26	0820	X			
B-855 (6.0-7.0')	6/26	0940	X			
B-855 (33.0-34.0')	6/26	0950	X			

Analyses by Method Name and Number	Total Number of Containers	Matrix		Comments (Field PID)	Lab ID #'s
		Water	Soil		
	5	X			0901009166
	5	X			-002
	5	X			-003
	5	X			-004
	5	X			-005
	5	X			006
	5	X			007
	5	X			-008
	5	X			-009

Laboratory Temperature upon Receipt  
4.4iced

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid (HNO<sub>3</sub>)
- Metals ..... Nitric acid
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:** Requested TAT:  Rush  5 Days  STD  Other \_\_\_\_\_  
 Fax and/or Mail Results to: Derek Ingram  
 Send Invoice to: \_\_\_\_\_  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other \_\_\_\_\_  
 Special Guidelines: \_\_\_\_\_  
 Reporting Limits: \_\_\_\_\_  
 \* Special: \_\_\_\_\_

**Shipping:** Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature R. Husan Date 6/21/08 Time 1520

**Received by:** Signature [Signature] Date 6/27/08 Time 1520



APPENDIX E

Groundwater Analytical Data

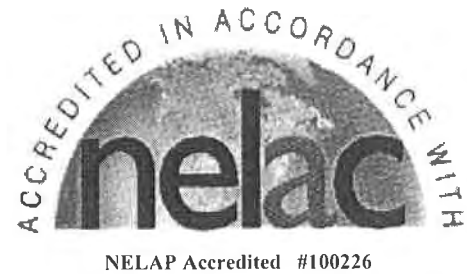
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

June 02, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08050900

Dear Derek Ingram:

TEKLAB, INC received 26 samples on 5/23/2008 12:00:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**SAMPLE SUMMARY****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08050900**Report Date:** 02-Jun-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08050900-001	Trip Blank	1	5/12/2008 12:30:00 PM
08050900-002	VMW 115	4	5/20/2008 9:30:00 AM
08050900-003	VMW114	4	5/20/2008 11:50:00 AM
08050900-004	VMW113	4	5/20/2008 1:10:00 PM
08050900-005	VMW107	4	5/20/2008 3:05:00 PM
08050900-006	VMW116	4	5/20/2008 4:40:00 PM
08050900-007	VMW106	4	5/21/2008 10:40:00 AM
08050900-008	VMW105	4	5/21/2008 10:41:00 AM
08050900-009	VMW121	4	5/21/2008 12:40:00 PM
08050900-010	VMW108	4	5/20/2008 1:40:00 PM
08050900-011	VMW302	4	5/21/2008 1:43:00 PM
08050900-012	VMW302D	4	5/21/2008 1:51:00 PM
08050900-013	VMW110	4	5/21/2008 3:55:00 PM
08050900-014	VWM117	4	5/21/2008 4:45:00 PM
08050900-015	VMW301	4	5/21/2008 5:00:00 PM
08050900-016	VMW104	4	5/22/2008 9:02:00 AM
08050900-017	VMW102	4	5/22/2008 9:45:00 AM
08050900-018	VMW120	4	5/22/2008 10:01:00 AM
08050900-019	VMW119	4	5/22/2008 11:11:00 AM
08050900-020	VMW111A	4	5/22/2008 11:50:00 AM
08050900-021	VMW303	4	5/22/2008 1:27:00 PM
08050900-022	VMW303D	4	5/22/2008 1:34:00 PM
08050900-023	VMW304	4	5/22/2008 2:38:00 PM
08050900-024	VMW118	4	5/22/2008 3:39:00 PM
08050900-025	VMW109	4	5/22/2008 3:40:00 PM
08050900-026	VMW300	4	5/23/2008 8:00:00 AM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08050900

**Report Date:** 02-Jun-08

**Cooler Receipt Temp:** 0.2 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050900  
**Lab ID:** 08050900-001  
**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** Trip Blank  
**Collection Date:** 5/12/2008 12:30:00 PM  
**Matrix:** TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/23/2008 10:19:00 PM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/23/2008 10:19:00 PM	TAL
Toluene	NELAP	5.0		ND	µg/L	1	5/23/2008 10:19:00 PM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/23/2008 10:19:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		94.0	%REC	1	5/23/2008 10:19:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		101.8	%REC	1	5/23/2008 10:19:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		98.5	%REC	1	5/23/2008 10:19:00 PM	TAL
Surr: Toluene-d8		84.3-114		94.3	%REC	1	5/23/2008 10:19:00 PM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW 115

Lab ID: 08050900-002

Collection Date: 5/20/2008 9:30:00 AM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.070		2.67	mg/L	10	5/29/2008 5:10:46 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 10:44:30 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A	NELAP	0.0030	0.0107	mg/L	1	5/27/2008 7:47:22 PM	JMW
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	5/29/2008 4:43:20 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		0.00390	mg/L	1	5/28/2008 7:46:00 PM	TDN
Acenaphthylene	NELAP	0.00010		0.00115	mg/L	1	5/28/2008 7:46:00 PM	TDN
Anthracene	NELAP	0.00010		0.00021	mg/L	1	5/28/2008 7:46:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Fluorene	NELAP	0.00010		0.00139	mg/L	1	5/28/2008 7:46:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 7:46:00 PM	TDN
Total PNAs except Naphthalene		0.00013		0.00665	mg/L	1	5/28/2008 7:46:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		65.2	%REC	1	5/28/2008 7:46:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		41.4	%REC	1	5/28/2008 7:46:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		66.8	%REC	1	5/28/2008 7:46:00 PM	TDN
Surr: Phenol-d5		11-42.8		23.5	%REC	1	5/28/2008 7:46:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		65.4	%REC	1	5/28/2008 7:46:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		11.6	µg/L	1	5/27/2008 3:54:00 PM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/27/2008 3:54:00 PM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-002

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW 115

**Collection Date:** 5/20/2008 9:30:00 AM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/27/2008 3:54:00 PM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/27/2008 3:54:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		117.7	%REC	1	5/27/2008 3:54:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		92.9	%REC	1	5/27/2008 3:54:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		111.9	%REC	1	5/27/2008 3:54:00 PM	TAL
Surr: Toluene-d8		84.3-114		97.5	%REC	1	5/27/2008 3:54:00 PM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-003

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW114

**Collection Date:** 5/20/2008 11:50:00 AM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.070		2.28	mg/L	10	5/29/2008 5:15:09 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 10:49:39 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A	NELAP	0.0030	0.0194	mg/L	1	5/27/2008 7:50:44 PM	JMW
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	5/29/2008 3:21:56 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00050		0.0729	mg/L	5	5/28/2008 11:39:00 AM	TDN
Acenaphthylene	NELAP	0.00050		0.0217	mg/L	5	5/28/2008 11:39:00 AM	TDN
Anthracene	NELAP	0.00050		0.00095	mg/L	5	5/28/2008 11:39:00 AM	TDN
Benzo(a)anthracene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Benzo(a)pyrene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.0100		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Chrysene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Diethyl phthalate	NELAP	0.00500		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Dimethyl phthalate	NELAP	0.00500		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Di-n-butyl phthalate	NELAP	0.00500		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Fluoranthene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Fluorene	NELAP	0.00050		0.0150	mg/L	5	5/28/2008 11:39:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
m,p-Cresol	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Naphthalene	NELAP	0.0250		4.61	mg/L	250	5/28/2008 12:15:00 PM	TDN
o-Cresol	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Phenanthrene	NELAP	0.00050		0.00522	mg/L	5	5/28/2008 11:39:00 AM	TDN
Pyrene	NELAP	0.00050		ND	mg/L	5	5/28/2008 11:39:00 AM	TDN
Total PNAs except Naphthalene		0.00065		0.116	mg/L	5	5/28/2008 11:39:00 AM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		64.0	%REC	5	5/28/2008 11:39:00 AM	TDN
Surr: 2-Fluorophenol		16.8-65.9		39.0	%REC	5	5/28/2008 11:39:00 AM	TDN
Surr: Nitrobenzene-d5		37.6-105		63.0	%REC	5	5/28/2008 11:39:00 AM	TDN
Surr: Phenol-d5		11-42.8		26.0	%REC	5	5/28/2008 11:39:00 AM	TDN
Surr: p-Terphenyl-d14		49-113		64.0	%REC	5	5/28/2008 11:39:00 AM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	200		1320	µg/L	100	5/23/2008 11:48:00 PM	TAL
Ethylbenzene	NELAP	500		1230	µg/L	100	5/23/2008 11:48:00 PM	TAL



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050900  
**Lab ID:** 08050900-003  
**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** VMW114  
**Collection Date:** 5/20/2008 11:50:00 AM  
**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	500	J	150	µg/L	100	5/23/2008 11:48:00 PM	TAL
Xylenes, Total	NELAP	500		1010	µg/L	100	5/23/2008 11:48:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		92.7	%REC	100	5/23/2008 11:48:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		104.2	%REC	100	5/23/2008 11:48:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		97.7	%REC	100	5/23/2008 11:48:00 PM	TAL
Surr: Toluene-d8		84.3-114		94.6	%REC	100	5/23/2008 11:48:00 PM	TAL

### Sample Narrative

SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

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.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW113

Lab ID: 08050900-004

Collection Date: 5/20/2008 1:10:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9012A (TOTAL) MODIFIED</b>								
Cyanide		0.070		0.965	mg/L	10	5/29/2008 5:19:29 PM	BED
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 10:51:21 AM	CRK
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>								
Arsenic	7060A	NELAP	0.0030	0.0142	mg/L	1	5/27/2008 7:54:04 PM	JMW
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	5/29/2008 3:25:18 PM	SRH
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.00010		0.00961	mg/L	1	5/28/2008 8:22:00 PM	TDN
Acenaphthylene	NELAP	0.00010		0.00959	mg/L	1	5/28/2008 8:22:00 PM	TDN
Anthracene	NELAP	0.00010		0.00027	mg/L	1	5/28/2008 8:22:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Fluorene	NELAP	0.00010		0.00056	mg/L	1	5/28/2008 8:22:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Naphthalene	NELAP	0.00010		0.00068	mg/L	1	5/28/2008 8:22:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:22:00 PM	TDN
Total PNAs except Naphthalene		0.00013		0.0200	mg/L	1	5/28/2008 8:22:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		51.6	%REC	1	5/28/2008 8:22:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		31.9	%REC	1	5/28/2008 8:22:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		51.8	%REC	1	5/28/2008 8:22:00 PM	TDN
Surr: Phenol-d5		11-42.8		18.9	%REC	1	5/28/2008 8:22:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		54.4	%REC	1	5/28/2008 8:22:00 PM	TDN
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	2.0		3.5	µg/L	1	5/27/2008 4:24:00 PM	TAL
Ethylbenzene	NELAP	5.0	J	1.7	µg/L	1	5/27/2008 4:24:00 PM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050900  
**Lab ID:** 08050900-004  
**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** VMW113  
**Collection Date:** 5/20/2008 1:10:00 PM  
**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/27/2008 4:24:00 PM	TAL
Xylenes, Total	NELAP	5.0	J	1.0	µg/L	1	5/27/2008 4:24:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		114.4	%REC	1	5/27/2008 4:24:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		96.0	%REC	1	5/27/2008 4:24:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		109.0	%REC	1	5/27/2008 4:24:00 PM	TAL
Surr: Toluene-d8		84.3-114		97.2	%REC	1	5/27/2008 4:24:00 PM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW107

Lab ID: 08050900-005

Collection Date: 5/20/2008 3:05:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.070		0.761	mg/L	10	5/29/2008 5:23:45 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 10:53:04 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A	NELAP	0.0030	0.0059	mg/L	1	5/27/2008 7:57:26 PM	JMW
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	5/29/2008 3:28:42 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Acenaphthylene	NELAP	0.00010		0.00024	mg/L	1	5/28/2008 8:58:00 PM	TDN
Anthracene	NELAP	0.00010		0.00012	mg/L	1	5/28/2008 8:58:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Naphthalene	NELAP	0.00010		0.0399	mg/L	1	5/28/2008 8:58:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:58:00 PM	TDN
Total PNAs except Naphthalene		0.00013		0.00037	mg/L	1	5/28/2008 8:58:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		60.2	%REC	1	5/28/2008 8:58:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		39.3	%REC	1	5/28/2008 8:58:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		57.6	%REC	1	5/28/2008 8:58:00 PM	TDN
Surr: Phenol-d5		11-42.8		21.8	%REC	1	5/28/2008 8:58:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		65.8	%REC	1	5/28/2008 8:58:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	10		236	µg/L	5	5/27/2008 4:54:00 PM	TAL
Ethylbenzene	NELAP	25.0	J	8.2	µg/L	5	5/27/2008 4:54:00 PM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050900**Lab ID:** 08050900-005**Report Date:** 02-Jun-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** VMW107**Collection Date:** 5/20/2008 3:05:00 PM**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	25.0		ND	µg/L	5	5/27/2008 4:54:00 PM	TAL
Xylenes, Total	NELAP	25.0	J	14	µg/L	5	5/27/2008 4:54:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		116.2	%REC	5	5/27/2008 4:54:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		96.3	%REC	5	5/27/2008 4:54:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		109.0	%REC	5	5/27/2008 4:54:00 PM	TAL
Surr: Toluene-d8		84.3-114		98.6	%REC	5	5/27/2008 4:54:00 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.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW116

Lab ID: 08050900-006

Collection Date: 5/20/2008 4:40:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007	J	0.004	mg/L	1	5/29/2008 5:32:35 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		0.0190	mg/L	1	5/27/2008 10:54:46 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic 7060A	NELAP	0.0030		< 0.0030	mg/L	1	5/27/2008 8:00:46 PM	JMW
Lead 7421	NELAP	0.0020		< 0.0020	mg/L	1	5/29/2008 3:32:04 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/27/2008 10:02:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		67.4	%REC	1	5/27/2008 10:02:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		42.0	%REC	1	5/27/2008 10:02:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		66.4	%REC	1	5/27/2008 10:02:00 PM	TDN
Surr: Phenol-d5		11-42.8		25.0	%REC	1	5/27/2008 10:02:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		77.2	%REC	1	5/27/2008 10:02:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/24/2008 2:17:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/24/2008 2:17:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050900**Lab ID:** 08050900-006**Report Date:** 02-Jun-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** VMW116**Collection Date:** 5/20/2008 4:40:00 PM**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/24/2008 2:17:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/24/2008 2:17:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		93.5	%REC	1	5/24/2008 2:17:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		102.1	%REC	1	5/24/2008 2:17:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		97.9	%REC	1	5/24/2008 2:17:00 AM	TAL
Surr: Toluene-d8		84.3-114		93.0	%REC	1	5/24/2008 2:17:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW106

Lab ID: 08050900-007

Collection Date: 5/21/2008 10:40:00 AM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		0.360	mg/L	1	5/29/2008 11:51:39 AM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 10:56:28 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A	NELAP	0.0030	< 0.0030	mg/L	1	5/27/2008 8:04:10 PM	JMW
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	5/29/2008 3:35:28 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/27/2008 10:38:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		76.2	%REC	1	5/27/2008 10:38:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		41.2	%REC	1	5/27/2008 10:38:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		71.8	%REC	1	5/27/2008 10:38:00 PM	TDN
Surr: Phenol-d5		11-42.8		25.6	%REC	1	5/27/2008 10:38:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		77.4	%REC	1	5/27/2008 10:38:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/24/2008 2:46:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/24/2008 2:46:00 AM	TAL



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-007

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW106

**Collection Date:** 5/21/2008 10:40:00 AM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/24/2008 2:46:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/24/2008 2:46:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		91.2	%REC	1	5/24/2008 2:46:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		98.0	%REC	1	5/24/2008 2:46:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		97.4	%REC	1	5/24/2008 2:46:00 AM	TAL
Surr: Toluene-d8		84.3-114		95.2	%REC	1	5/24/2008 2:46:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW105

Lab ID: 08050900-008

Collection Date: 5/21/2008 10:41:00 AM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		0.098	mg/L	1	5/29/2008 11:56:01 AM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:06:33 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A	NELAP	0.0030	< 0.0030	mg/L	1	5/27/2008 8:07:30 PM	JMW
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	5/29/2008 3:38:52 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/29/2008 12:03:00 AM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		78.0	%REC	1	5/29/2008 12:03:00 AM	TDN
Surr: 2-Fluorophenol		16.8-65.9		42.3	%REC	1	5/29/2008 12:03:00 AM	TDN
Surr: Nitrobenzene-d5		37.6-105		72.4	%REC	1	5/29/2008 12:03:00 AM	TDN
Surr: Phenol-d5		11-42.8		24.6	%REC	1	5/29/2008 12:03:00 AM	TDN
Surr: p-Terphenyl-d14		49-113		84.6	%REC	1	5/29/2008 12:03:00 AM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/24/2008 3:16:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/24/2008 3:16:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050900  
**Lab ID:** 08050900-008  
**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** VMW105  
**Collection Date:** 5/21/2008 10:41:00 AM  
**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/24/2008 3:16:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/24/2008 3:16:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		91.1	%REC	1	5/24/2008 3:16:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		101.3	%REC	1	5/24/2008 3:16:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		98.0	%REC	1	5/24/2008 3:16:00 AM	TAL
Surr: Toluene-d8		84.3-114		93.2	%REC	1	5/24/2008 3:16:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW121

Lab ID: 08050900-009

Collection Date: 5/21/2008 12:40:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9012A (TOTAL) MODIFIED</b>								
Cyanide		0.007		0.415	mg/L	1	5/29/2008 12:00:23 PM	BED
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:08:16 AM	CRK
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>								
Arsenic	7060A NELAP	0.0030		< 0.0030	mg/L	1	5/27/2008 8:17:44 PM	JMW
Lead	7421 NELAP	0.0020		< 0.0020	mg/L	1	5/29/2008 3:42:16 PM	SRH
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Acenaphthylene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Anthracene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00909		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Chrysene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Diethyl phthalate	NELAP	0.00455		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Dimethyl phthalate	NELAP	0.00455		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00455		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Fluoranthene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Fluorene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
m,p-Cresol	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Naphthalene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
o-Cresol	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Phenanthrene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Pyrene	NELAP	0.00045		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Total PNAs except Naphthalene		0.00059		ND	mg/L	1	5/28/2008 6:34:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		64.6	%REC	1	5/28/2008 6:34:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		39.8	%REC	1	5/28/2008 6:34:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		66.8	%REC	1	5/28/2008 6:34:00 PM	TDN
Surr: Phenol-d5		11-42.8		24.6	%REC	1	5/28/2008 6:34:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		76.0	%REC	1	5/28/2008 6:34:00 PM	TDN
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/24/2008 3:46:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/24/2008 3:46:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050900  
**Lab ID:** 08050900-009  
**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** VMW121  
**Collection Date:** 5/21/2008 12:40:00 PM  
**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/24/2008 3:46:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/24/2008 3:46:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		90.1	%REC	1	5/24/2008 3:46:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		101.0	%REC	1	5/24/2008 3:46:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		97.0	%REC	1	5/24/2008 3:46:00 AM	TAL
Surr: Toluene-d8		84.3-114		94.1	%REC	1	5/24/2008 3:46:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW108

Lab ID: 08050900-010

Collection Date: 5/20/2008 1:40:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		0.043	mg/L	1	5/29/2008 12:04:47 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:13:52 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A NELAP	0.0030		< 0.0030	mg/L	1	5/27/2008 8:21:04 PM	JMW
Lead	7421 NELAP	0.0020		< 0.0020	mg/L	1	5/29/2008 3:45:40 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 9:34:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		66.2	%REC	1	5/28/2008 9:34:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		40.8	%REC	1	5/28/2008 9:34:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		63.0	%REC	1	5/28/2008 9:34:00 PM	TDN
Surr: Phenol-d5		11-42.8		25.0	%REC	1	5/28/2008 9:34:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		62.8	%REC	1	5/28/2008 9:34:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/27/2008 1:50:00 PM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/27/2008 1:50:00 PM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-010

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW108

**Collection Date:** 5/20/2008 1:40:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/27/2008 1:50:00 PM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/27/2008 1:50:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		115.3	%REC	1	5/27/2008 1:50:00 PM	TAL
Surr: 4-Bromofluoroberizene		86-119		95.4	%REC	1	5/27/2008 1:50:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		111.8	%REC	1	5/27/2008 1:50:00 PM	TAL
Surr: Toluene-d8		84.3-114		100.1	%REC	1	5/27/2008 1:50:00 PM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050900

Lab ID: 08050900-011

Report Date: 02-Jun-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: VMW302

Collection Date: 5/21/2008 1:43:00 PM

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		0.044	mg/L	1	5/29/2008 12:09:09 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:16:43 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A	NELAP	J	0.0020	mg/L	1	5/27/2008 8:24:26 PM	JMW
Lead	7421	NELAP		< 0.0020	mg/L	1	5/29/2008 3:49:06 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Acenaphthylene	NELAP	0.00050		0.00070	mg/L	5	5/28/2008 7:42:00 PM	TDN
Anthracene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.0100		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Chrysene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Diethyl phthalate	NELAP	0.00500		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Dimethyl phthalate	NELAP	0.00500		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00500		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Fluoranthene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Fluorene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
m,p-Cresol	NELAP	0.00050		0.00969	mg/L	5	5/28/2008 7:42:00 PM	TDN
Naphthalene	NELAP	0.0250		3.36	mg/L	250	5/30/2008 9:33:00 AM	TDN
o-Cresol	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Phenanthrene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Pyrene	NELAP	0.00050		ND	mg/L	5	5/28/2008 7:42:00 PM	TDN
Total PNAs except Naphthalene		0.00065		0.00070	mg/L	5	5/28/2008 7:42:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		68.0	%REC	5	5/28/2008 7:42:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		43.0	%REC	5	5/28/2008 7:42:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		65.0	%REC	5	5/28/2008 7:42:00 PM	TDN
Surr: Phenol-d5		11-42.8		23.0	%REC	5	5/28/2008 7:42:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		73.0	%REC	5	5/28/2008 7:42:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	200		1320	µg/L	100	5/27/2008 2:23:00 PM	TAL
Ethylbenzene	NELAP	500		514	µg/L	100	5/27/2008 2:23:00 PM	TAL



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050900  
**Lab ID:** 08050900-011  
**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** VMW302  
**Collection Date:** 5/21/2008 1:43:00 PM  
**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	500		ND	µg/L	100	5/27/2008 2:23:00 PM	TAL
Xylenes, Total	NELAP	500	J	160	µg/L	100	5/27/2008 2:23:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		117.4	%REC	100	5/27/2008 2:23:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		95.3	%REC	100	5/27/2008 2:23:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		111.2	%REC	100	5/27/2008 2:23:00 PM	TAL
Surr: Toluene-d8		84.3-114		100.1	%REC	100	5/27/2008 2:23:00 PM	TAL

### Sample Narrative

SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

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.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-012

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW302D

**Collection Date:** 5/21/2008 1:51:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
<b>SW-846 9012A (TOTAL) MODIFIED</b>									
Cyanide		0.007		0.045	mg/L	1	5/29/2008 12:13:31 PM	BED	
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:18:24 AM	CRK	
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>									
Arsenic	7060A	NELAP	0.0030	J	0.0017	mg/L	1	5/27/2008 8:27:48 PM	JMW
Lead	7421	NELAP	0.0020		0.0022	mg/L	1	5/29/2008 3:52:30 PM	SRH
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Acenaphthene	NELAP	0.00010		0.00011	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Acenaphthylene	NELAP	0.00010		0.00069	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
m,p-Cresol	NELAP	0.00010		0.00996	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Naphthalene	NELAP	0.0250		3.57	mg/L	250	5/30/2008 10:09:00 AM	TDN	
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Total PNAs except Naphthalene		0.00013		0.00080	mg/L	1	5/28/2008 8:19:00 PM	TDN	
Surr: 2-Fluorobiphenyl		41.1-108		63.4	%REC	1	5/28/2008 8:19:00 PM	TDN	
Surr: 2-Fluorophenol		16.8-65.9		43.0	%REC	1	5/28/2008 8:19:00 PM	TDN	
Surr: Nitrobenzene-d5		37.6-105		62.2	%REC	1	5/28/2008 8:19:00 PM	TDN	
Surr: Phenol-d5		11-42.8		24.5	%REC	1	5/28/2008 8:19:00 PM	TDN	
Surr: p-Terphenyl-d14		49-113		73.6	%REC	1	5/28/2008 8:19:00 PM	TDN	
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Benzene	NELAP	200		1330	µg/L	100	5/27/2008 2:53:00 PM	TAL	
Ethylbenzene	NELAP	500	J	490	µg/L	100	5/27/2008 2:53:00 PM	TAL	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-012

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW302D

**Collection Date:** 5/21/2008 1:51:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	500		ND	µg/L	100	5/27/2008 2:53:00 PM	TAL
Xylenes, Total	NELAP	500	J	150	µg/L	100	5/27/2008 2:53:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		115.9	%REC	100	5/27/2008 2:53:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		95.8	%REC	100	5/27/2008 2:53:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		110.9	%REC	100	5/27/2008 2:53:00 PM	TAL
Surr: Toluene-d8		84.3-114		99.6	%REC	100	5/27/2008 2:53:00 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.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050900

Lab ID: 08050900-013

Report Date: 02-Jun-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: VMW110

Collection Date: 5/21/2008 3:55:00 PM

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.070		0.916	mg/L	10	5/29/2008 5:28:11 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:20:06 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A NELAP	0.0030		0.0069	mg/L	1	5/27/2008 8:31:10 PM	JMW
Lead	7421 NELAP	0.0020	J	0.0004	mg/L	1	5/29/2008 4:02:44 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		0.0217	mg/L	1	5/30/2008 10:45:00 AM	TDN
Acenaphthylene	NELAP	0.00010		0.0451	mg/L	1	5/30/2008 10:45:00 AM	TDN
Anthracene	NELAP	0.00010		0.00388	mg/L	1	5/30/2008 10:45:00 AM	TDN
Benzo(a)anthracene	NELAP	0.00010		0.00019	mg/L	1	5/30/2008 10:45:00 AM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Chrysene	NELAP	0.00010		0.00012	mg/L	1	5/30/2008 10:45:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Fluoranthene	NELAP	0.00010		0.00184	mg/L	1	5/30/2008 10:45:00 AM	TDN
Fluorene	NELAP	0.00010		0.00586	mg/L	1	5/30/2008 10:45:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Naphthalene	NELAP	0.00010		0.00645	mg/L	1	5/30/2008 10:45:00 AM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:45:00 AM	TDN
Phenanthrene	NELAP	0.00010		0.0213	mg/L	1	5/30/2008 10:45:00 AM	TDN
Pyrene	NELAP	0.00010		0.00244	mg/L	1	5/30/2008 10:45:00 AM	TDN
Total PNAs except Naphthalene		0.00013		0.102	mg/L	1	5/30/2008 10:45:00 AM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		76.2	%REC	1	5/30/2008 10:45:00 AM	TDN
Surr: 2-Fluorophenol		16.8-65.9		41.5	%REC	1	5/30/2008 10:45:00 AM	TDN
Surr: Nitrobenzene-d5		37.6-105		69.6	%REC	1	5/30/2008 10:45:00 AM	TDN
Surr: Phenol-d5		11-42.8		23.3	%REC	1	5/30/2008 10:45:00 AM	TDN
Surr: p-Terphenyl-d14		49-113		83.2	%REC	1	5/30/2008 10:45:00 AM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		13.2	µg/L	1	5/27/2008 11:47:00 PM	TAL
Ethylbenzene	NELAP	5.0		38.7	µg/L	1	5/27/2008 11:47:00 PM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-013

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW110

**Collection Date:** 5/21/2008 3:55:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0	J	1.4	µg/L	1	5/27/2008 11:47:00 PM	TAL
Xylenes, Total	NELAP	5.0		35.3	µg/L	1	5/27/2008 11:47:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		117.4	%REC	1	5/27/2008 11:47:00 PM	TAL
Surr: 4-Bromofluoroberizene		86-119		89.6	%REC	1	5/27/2008 11:47:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		111.8	%REC	1	5/27/2008 11:47:00 PM	TAL
Surr: Toluene-d8		84.3-114		98.5	%REC	1	5/27/2008 11:47:00 PM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VWM117

Lab ID: 08050900-014

Collection Date: 5/21/2008 4:45:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>									
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 12:23:12 PM	BED	
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>									
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:21:48 AM	CRK	
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>									
Arsenic	7060A	NELAP	0.0030	< 0.0030	mg/L	1	5/27/2008 8:34:32 PM	JMW	
Lead	7421	NELAP	0.0020	J	0.0005	mg/L	1	5/29/2008 4:06:08 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>									
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Naphthalene	NELAP	0.00010		0.00015	mg/L	1	5/28/2008 9:33:00 PM	TDN	
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 9:33:00 PM	TDN	
Surr: 2-Fluorobiphenyl		41.1-108		91.2	%REC	1	5/28/2008 9:33:00 PM	TDN	
Surr: 2-Fluorophenol		16.8-65.9		50.5	%REC	1	5/28/2008 9:33:00 PM	TDN	
Surr: Nitrobenzene-d5		37.6-105		89.6	%REC	1	5/28/2008 9:33:00 PM	TDN	
Surr: Phenol-d5		11-42.8		28.3	%REC	1	5/28/2008 9:33:00 PM	TDN	
Surr: p-Terphenyl-d14		49-113		88.4	%REC	1	5/28/2008 9:33:00 PM	TDN	
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>									
Benzene	NELAP	2.0		ND	µg/L	1	5/27/2008 5:24:00 PM	TAL	
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/27/2008 5:24:00 PM	TAL	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-014

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VWM117

**Collection Date:** 5/21/2008 4:45:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/27/2008 5:24:00 PM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/27/2008 5:24:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		116.2	%REC	1	5/27/2008 5:24:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		96.3	%REC	1	5/27/2008 5:24:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		110.9	%REC	1	5/27/2008 5:24:00 PM	TAL
Surr: Toluene-d8		84.3-114		99.4	%REC	1	5/27/2008 5:24:00 PM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW301

Lab ID: 08050900-015

Collection Date: 5/21/2008 5:00:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
<b>SW-846 9012A (TOTAL) MODIFIED</b>									
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 12:27:13 PM	BED	
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:23:30 AM	CRK	
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>									
Arsenic	7060A	NELAP	0.0030	J	0.0011	mg/L	1	5/27/2008 8:37:54 PM	JMW
Lead	7421	NELAP	0.0020	J	0.0010	mg/L	1	5/30/2008 10:52:34 AM	JMW
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Acenaphthene	NELAP	0.00010		0.00078	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Acenaphthylene	NELAP	0.00010		0.00902	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Bis(2-ethylhexyl)phthalate	NELAP	0.00200	R	ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Chrysene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Di-n-butyl phthalate	NELAP	0.00100	J	0.00050	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Fluorene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
m,p-Cresol	NELAP	0.00010		0.00312	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Naphthalene	NELAP	0.00010		0.00073	mg/L	1	5/29/2008 6:18:00 PM	TDN	
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Total PNAs except Naphthalene		0.00013		0.00980	mg/L	1	5/29/2008 6:18:00 PM	TDN	
Surr: 2-Fluorobiphenyl		41.1-108		60.3	%REC	1	5/29/2008 6:18:00 PM	TDN	
Surr: 2-Fluorophenol		16.8-65.9		36.0	%REC	1	5/29/2008 6:18:00 PM	TDN	
Surr: Nitrobenzene-d5		37.6-105		58.9	%REC	1	5/29/2008 6:18:00 PM	TDN	
Surr: Phenol-d5		11-42.8		22.4	%REC	1	5/29/2008 6:18:00 PM	TDN	
Surr: p-Terphenyl-d14		49-113		69.9	%REC	1	5/29/2008 6:18:00 PM	TDN	
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Benzene	NELAP	2.0		ND	µg/L	1	5/28/2008 12:17:00 AM	TAL	
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/28/2008 12:17:00 AM	TAL	



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-015

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW301

**Collection Date:** 5/21/2008 5:00:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/28/2008 12:17:00 AM	TAL
Xylenes, Total	NELAP	5.0	J	2.9	µg/L	1	5/28/2008 12:17:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		113.8	%REC	1	5/28/2008 12:17:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		94.7	%REC	1	5/28/2008 12:17:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		110.0	%REC	1	5/28/2008 12:17:00 AM	TAL
Surr: Toluene-d8		84.3-114		89.4	%REC	1	5/28/2008 12:17:00 AM	TAL

### Sample Narrative

SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

RPD is outside of the QC limits for Bis(2-ethylhexyl)phthalate.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW104

Lab ID: 08050900-016

Collection Date: 5/22/2008 9:02:00 AM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9012A (TOTAL) MODIFIED</b>								
Cyanide		0.007		0.186	mg/L	1	5/29/2008 12:48:30 PM	BED
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:36:33 AM	CRK
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>								
Arsenic	7060A NELAP	0.0030	J	0.0007	mg/L	1	5/27/2008 8:48:02 PM	JMW
Lead	7421 NELAP	0.0020	J	0.0017	mg/L	1	5/29/2008 4:19:40 PM	SRH
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 10:11:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		66.6	%REC	1	5/28/2008 10:11:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		40.5	%REC	1	5/28/2008 10:11:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		66.0	%REC	1	5/28/2008 10:11:00 PM	TDN
Surr: Phenol-d5		11-42.8		24.0	%REC	1	5/28/2008 10:11:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		68.4	%REC	1	5/28/2008 10:11:00 PM	TDN
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/27/2008 7:25:00 PM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/27/2008 7:25:00 PM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-016

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW104

**Collection Date:** 5/22/2008 9:02:00 AM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/27/2008 7:25:00 PM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/27/2008 7:25:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		117.1	%REC	1	5/27/2008 7:25:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		95.3	%REC	1	5/27/2008 7:25:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		112.9	%REC	1	5/27/2008 7:25:00 PM	TAL
Surr: Toluene-d8		84.3-114		99.6	%REC	1	5/27/2008 7:25:00 PM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW102

Lab ID: 08050900-017

Collection Date: 5/22/2008 9:45:00 AM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 1:14:10 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:38:16 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A	NELAP	0.0030	0.0070	mg/L	1	5/27/2008 8:58:18 PM	JMW
Lead	7421	NELAP	0.0020	< 0.0020	mg/L	1	5/29/2008 4:23:02 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 10:49:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		67.8	%REC	1	5/28/2008 10:49:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		39.7	%REC	1	5/28/2008 10:49:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		67.4	%REC	1	5/28/2008 10:49:00 PM	TDN
Surr: Phenol-d5		11-42.8		22.9	%REC	1	5/28/2008 10:49:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		70.0	%REC	1	5/28/2008 10:49:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/27/2008 7:55:00 PM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/27/2008 7:55:00 PM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**Client Project:** A831-735002-012901-225/IP Champ

**WorkOrder:** 08050900

**Client Sample ID:** VMW102

**Lab ID:** 08050900-017

**Collection Date:** 5/22/2008 9:45:00 AM

**Report Date:** 02-Jun-08

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/27/2008 7:55:00 PM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/27/2008 7:55:00 PM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		116.6	%REC	1	5/27/2008 7:55:00 PM	TAL
Surr: 4-Bromofluorobenzene		86-119		94.2	%REC	1	5/27/2008 7:55:00 PM	TAL
Surr: Dibromofluoromethane		81.7-123		112.7	%REC	1	5/27/2008 7:55:00 PM	TAL
Surr: Toluene-d8		84.3-114		100.3	%REC	1	5/27/2008 7:55:00 PM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW120

Lab ID: 08050900-018

Collection Date: 5/22/2008 10:01:00 AM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>									
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 1:18:53 PM	BED	
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>									
Chromium	NELAP	0.0100	J	0.0044	mg/L	1	5/27/2008 11:39:58 AM	CRK	
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>									
Arsenic	7060A	NELAP	0.0030	J	0.0015	mg/L	1	5/27/2008 9:01:42 PM	JMW
Lead	7421	NELAP	0.0020		0.0029	mg/L	1	5/29/2008 4:26:26 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>									
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 11:27:00 PM	TDN	
Surr: 2-Fluorobiphenyl		41.1-108		66.4	%REC	1	5/28/2008 11:27:00 PM	TDN	
Surr: 2-Fluorophenol		16.8-65.9		37.4	%REC	1	5/28/2008 11:27:00 PM	TDN	
Surr: Nitrobenzene-d5		37.6-105		63.4	%REC	1	5/28/2008 11:27:00 PM	TDN	
Surr: Phenol-d5		11-42.8		21.3	%REC	1	5/28/2008 11:27:00 PM	TDN	
Surr: p-Terphenyl-d14		49-113		70.4	%REC	1	5/28/2008 11:27:00 PM	TDN	
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>									
Benzene	NELAP	2.0		ND	µg/L	1	5/28/2008 1:48:00 AM	TAL	
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/28/2008 1:48:00 AM	TAL	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-018

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW120

**Collection Date:** 5/22/2008 10:01:00 AM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/28/2008 1:48:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/28/2008 1:48:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		113.4	%REC	1	5/28/2008 1:48:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		97.3	%REC	1	5/28/2008 1:48:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		108.6	%REC	1	5/28/2008 1:48:00 AM	TAL
Surr: Toluene-d8		84.3-114		98.9	%REC	1	5/28/2008 1:48:00 AM	TAL

**Sample Narrative**

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050900

Lab ID: 08050900-019

Report Date: 02-Jun-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: VMW119

Collection Date: 5/22/2008 11:11:00 AM

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
<b>SW-846 9012A (TOTAL) MODIFIED</b>									
Cyanide		0.007		0.013	mg/L	1	5/29/2008 1:27:50 PM	BED	
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:41:40 AM	CRK	
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>									
Arsenic	7060A	NELAP	0.0030	J	0.0012	mg/L	1	5/27/2008 9:05:06 PM	JMW
Lead	7421	NELAP	0.0020	J	0.0015	mg/L	1	5/29/2008 4:29:48 PM	SRH
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Acenaphthene	NELAP	0.00010		0.00230	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Acenaphthylene	NELAP	0.00010		0.00152	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Anthracene	NELAP	0.00010		0.00014	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Chrysene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Di-n-butyl phthalate	NELAP	0.00100	J	0.00051	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Fluoranthene	NELAP	0.00010		0.00030	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Fluorene	NELAP	0.00010		0.00068	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Naphthalene	NELAP	0.00010		0.00092	mg/L	1	5/29/2008 12:05:00 AM	TDN	
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Pyrene	NELAP	0.00010		0.00039	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Total PNAs except Naphthalene		0.00013		0.00532	mg/L	1	5/29/2008 12:05:00 AM	TDN	
Surr: 2-Fluorobiphenyl		41.1-108		69.4	%REC	1	5/29/2008 12:05:00 AM	TDN	
Surr: 2-Fluorophenol		16.8-65.9		41.3	%REC	1	5/29/2008 12:05:00 AM	TDN	
Surr: Nitrobenzene-d5		37.6-105		67.8	%REC	1	5/29/2008 12:05:00 AM	TDN	
Surr: Phenol-d5		11-42.8		23.6	%REC	1	5/29/2008 12:05:00 AM	TDN	
Surr: p-Terphenyl-d14		49-113		69.4	%REC	1	5/29/2008 12:05:00 AM	TDN	
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Benzene	NELAP	2.0		3.4	µg/L	1	5/28/2008 2:18:00 AM	TAL	
Ethylbenzene	NELAP	5.0		6.2	µg/L	1	5/28/2008 2:18:00 AM	TAL	



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-019

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW119

**Collection Date:** 5/22/2008 11:11:00 AM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/28/2008 2:18:00 AM	TAL
Xylenes, Total	NELAP	5.0		6.6	µg/L	1	5/28/2008 2:18:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		115.3	%REC	1	5/28/2008 2:18:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		95.9	%REC	1	5/28/2008 2:18:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		110.0	%REC	1	5/28/2008 2:18:00 AM	TAL
Surr: Toluene-d8		84.3-114		99.1	%REC	1	5/28/2008 2:18:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW111A

Lab ID: 08050900-020

Collection Date: 5/22/2008 11:50:00 AM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 1:32:08 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:43:22 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A NELAP	0.0030		< 0.0030	mg/L	1	5/27/2008 9:08:30 PM	JMW
Lead	7421 NELAP	0.0020		< 0.0020	mg/L	1	5/29/2008 4:33:08 PM	SRH
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/29/2008 12:43:00 AM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		63.2	%REC	1	5/29/2008 12:43:00 AM	TDN
Surr: 2-Fluorophenol		16.8-65.9		37.4	%REC	1	5/29/2008 12:43:00 AM	TDN
Surr: Nitrobenzene-d5		37.6-105		61.2	%REC	1	5/29/2008 12:43:00 AM	TDN
Surr: Phenol-d5		11-42.8		22.2	%REC	1	5/29/2008 12:43:00 AM	TDN
Surr: p-Terphenyl-d14		49-113		68.0	%REC	1	5/29/2008 12:43:00 AM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/28/2008 2:49:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/28/2008 2:49:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08050900  
**Lab ID:** 08050900-020  
**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** VMW111A  
**Collection Date:** 5/22/2008 11:50:00 AM  
**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/28/2008 2:49:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/28/2008 2:49:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		115.3	%REC	1	5/28/2008 2:49:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		95.8	%REC	1	5/28/2008 2:49:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		111.5	%REC	1	5/28/2008 2:49:00 AM	TAL
Surr: Toluene-d8		84.3-114		96.7	%REC	1	5/28/2008 2:49:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW303

Lab ID: 08050900-021

Collection Date: 5/22/2008 1:27:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>									
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 1:36:32 PM	BED	
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>									
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:45:04 AM	CRK	
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>									
Arsenic	7060A	NELAP	0.0030	J	0.0023	mg/L	1	5/27/2008 9:18:42 PM	JMW
Lead	7421	NELAP	0.0020		< 0.0020	mg/L	1	5/27/2008 9:56:42 AM	JMW
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>									
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Chrysene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Fluorene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
m,p-Cresol	NELAP	0.00010		0.00175	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Naphthalene	NELAP	0.00010	J	0.00009	mg/L	1	5/29/2008 1:21:00 AM	TDN	
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Pyrene	NELAP	0.00010		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/29/2008 1:21:00 AM	TDN	
Surr: 2-Fluorobiphenyl		41.1-108		68.0	%REC	1	5/29/2008 1:21:00 AM	TDN	
Surr: 2-Fluorophenol		16.8-65.9		39.4	%REC	1	5/29/2008 1:21:00 AM	TDN	
Surr: Nitrobenzene-d5		37.6-105		66.8	%REC	1	5/29/2008 1:21:00 AM	TDN	
Surr: Phenol-d5		11-42.8		21.2	%REC	1	5/29/2008 1:21:00 AM	TDN	
Surr: p-Terphenyl-d14		49-113		71.4	%REC	1	5/29/2008 1:21:00 AM	TDN	
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>									
Benzene	NELAP	2.0		ND	µg/L	1	5/28/2008 3:19:00 AM	TAL	
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/28/2008 3:19:00 AM	TAL	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08050900

Lab ID: 08050900-021

Report Date: 02-Jun-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: VMW303

Collection Date: 5/22/2008 1:27:00 PM

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/28/2008 3:19:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/28/2008 3:19:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		116.4	%REC	1	5/28/2008 3:19:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		95.5	%REC	1	5/28/2008 3:19:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		112.1	%REC	1	5/28/2008 3:19:00 AM	TAL
Surr: Toluene-d8		84.3-114		99.4	%REC	1	5/28/2008 3:19:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**Client Project:** A831-735002-012901-225/IP Champ

**WorkOrder:** 08050900

**Client Sample ID:** VMW303D

**Lab ID:** 08050900-022

**Collection Date:** 5/22/2008 1:34:00 PM

**Report Date:** 02-Jun-08

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 1:40:58 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:46:46 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A	NELAP	0.0030	0.0038	mg/L	1	5/28/2008 10:53:54 AM	SRH
Lead	7421	NELAP	0.0020	J 0.0004	mg/L	1	5/24/2008 12:13:18 PM	JMW
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
m,p-Cresol	NELAP	0.00010		0.00180	mg/L	1	5/28/2008 3:34:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 3:34:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		67.2	%REC	1	5/28/2008 3:34:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		39.4	%REC	1	5/28/2008 3:34:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		69.2	%REC	1	5/28/2008 3:34:00 PM	TDN
Surr: Phenol-d5		11-42.8		22.5	%REC	1	5/28/2008 3:34:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		70.0	%REC	1	5/28/2008 3:34:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/28/2008 3:49:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/28/2008 3:49:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-022

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW303D

**Collection Date:** 5/22/2008 1:34:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/28/2008 3:49:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/28/2008 3:49:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		117.1	%REC	1	5/28/2008 3:49:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		95.4	%REC	1	5/28/2008 3:49:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		112.6	%REC	1	5/28/2008 3:49:00 AM	TAL
Surr: Toluene-d8		84.3-114		99.1	%REC	1	5/28/2008 3:49:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW304

Lab ID: 08050900-023

Collection Date: 5/22/2008 2:38:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		0.031	mg/L	1	5/29/2008 1:45:17 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:48:28 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic 7060A	NELAP	0.0030		< 0.0030	mg/L	1	5/28/2008 10:57:14 AM	SRH
Lead 7421	NELAP	0.0020		< 0.0020	mg/L	1	5/24/2008 12:16:42 PM	JMW
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		0.00934	mg/L	1	5/28/2008 4:09:00 PM	TDN
Acenaphthylene	NELAP	0.00010		0.00133	mg/L	1	5/28/2008 4:09:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Fluorene	NELAP	0.00010		0.00010	mg/L	1	5/28/2008 4:09:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
m,p-Cresol	NELAP	0.00010		0.00391	mg/L	1	5/28/2008 4:09:00 PM	TDN
Naphthalene	NELAP	0.00010		0.0275	mg/L	1	5/28/2008 4:09:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:09:00 PM	TDN
Total PNAs except Naphthalene		0.00013		0.0108	mg/L	1	5/28/2008 4:09:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		69.8	%REC	1	5/28/2008 4:09:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		42.3	%REC	1	5/28/2008 4:09:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		67.4	%REC	1	5/28/2008 4:09:00 PM	TDN
Surr: Phenol-d5		11-42.8		22.3	%REC	1	5/28/2008 4:09:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		73.2	%REC	1	5/28/2008 4:09:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		40.2	µg/L	1	5/28/2008 4:19:00 AM	TAL
Ethylbenzene	NELAP	50.0		450	µg/L	10	5/29/2008 4:23:00 AM	TAL



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-023

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW304

**Collection Date:** 5/22/2008 2:38:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		7.6	µg/L	1	5/28/2008 4:19:00 AM	TAL
Xylenes, Total	NELAP	5.0		150	µg/L	1	5/28/2008 4:19:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		118.5	%REC	1	5/28/2008 4:19:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		88.4	%REC	1	5/28/2008 4:19:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		110.4	%REC	1	5/28/2008 4:19:00 AM	TAL
Surr: Toluene-d8		84.3-114		99.3	%REC	1	5/28/2008 4:19:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW118

Lab ID: 08050900-024

Collection Date: 5/22/2008 3:39:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		0.047	mg/L	1	5/29/2008 1:49:40 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		0.0266	mg/L	1	5/27/2008 11:56:25 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic	7060A NELAP	0.0030		0.0078	mg/L	1	5/28/2008 11:00:36 AM	SRH
Lead	7421 NELAP	0.0020		0.0151	mg/L	1	5/24/2008 12:20:06 PM	JMW
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 4:45:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		66.2	%REC	1	5/28/2008 4:45:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		38.6	%REC	1	5/28/2008 4:45:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		62.8	%REC	1	5/28/2008 4:45:00 PM	TDN
Surr: Phenol-d5		11-42.8		21.9	%REC	1	5/28/2008 4:45:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		71.2	%REC	1	5/28/2008 4:45:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/29/2008 4:53:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/29/2008 4:53:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08050900**Lab ID:** 08050900-024**Report Date:** 02-Jun-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** VMW118**Collection Date:** 5/22/2008 3:39:00 PM**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/29/2008 4:53:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/29/2008 4:53:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		85.9	%REC	1	5/29/2008 4:53:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		97.2	%REC	1	5/29/2008 4:53:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		96.2	%REC	1	5/29/2008 4:53:00 AM	TAL
Surr: Toluene-d8		84.3-114		91.2	%REC	1	5/29/2008 4:53:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW109

Lab ID: 08050900-025

Collection Date: 5/22/2008 3:40:00 PM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9012A (TOTAL) MODIFIED</b>								
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 1:54:25 PM	BED
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>								
Chromium	NELAP	0.0100		0.0166	mg/L	1	5/27/2008 11:58:08 AM	CRK
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>								
Arsenic 7060A	NELAP	0.0030		< 0.0030	mg/L	1	5/28/2008 11:03:58 AM	SRH
Lead 7421	NELAP	0.0020		< 0.0020	mg/L	1	5/24/2008 12:23:28 PM	JMW
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 5:21:00 PM	TDN
Surr: 2-Fluorobiphenyl		41 1-108		72.4	%REC	1	5/28/2008 5:21:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		41.7	%REC	1	5/28/2008 5:21:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		70.6	%REC	1	5/28/2008 5:21:00 PM	TDN
Surr: Phenol-d5		11-42 8		23.8	%REC	1	5/28/2008 5:21:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		75.0	%REC	1	5/28/2008 5:21:00 PM	TDN
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/28/2008 5:20:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/28/2008 5:20:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-025

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW109

**Collection Date:** 5/22/2008 3:40:00 PM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/28/2008 5:20:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/28/2008 5:20:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		116.8	%REC	1	5/28/2008 5:20:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		96.1	%REC	1	5/28/2008 5:20:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		112.3	%REC	1	5/28/2008 5:20:00 AM	TAL
Surr: Toluene-d8		84.3-114		98.7	%REC	1	5/28/2008 5:20:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08050900

Client Sample ID: VMW300

Lab ID: 08050900-026

Collection Date: 5/23/2008 8:00:00 AM

Report Date: 02-Jun-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 9012A (TOTAL) MODIFIED</b>								
Cyanide		0.007		< 0.007	mg/L	1	5/29/2008 1:58:21 PM	BED
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	5/27/2008 11:59:51 AM	CRK
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>								
Arsenic	7060A NELAP	0.0030	J	0.0020	mg/L	1	5/28/2008 11:14:08 AM	SRH
Lead	7421 NELAP	0.0020	J	0.0006	mg/L	1	5/24/2008 12:26:52 PM	JMW
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	5/28/2008 5:57:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		88.0	%REC	1	5/28/2008 5:57:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		51.1	%REC	1	5/28/2008 5:57:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		82.0	%REC	1	5/28/2008 5:57:00 PM	TDN
Surr: Phenol-d5		11-42.8		31.5	%REC	1	5/28/2008 5:57:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		94.8	%REC	1	5/28/2008 5:57:00 PM	TDN
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	2.0		ND	µg/L	1	5/28/2008 5:50:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	5/28/2008 5:50:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08050900

**Lab ID:** 08050900-026

**Report Date:** 02-Jun-08

**Client Project:** A831-735002-012901-225/IP Champ

**Client Sample ID:** VMW300

**Collection Date:** 5/23/2008 8:00:00 AM

**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	5/28/2008 5:50:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	5/28/2008 5:50:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		117.1	%REC	1	5/28/2008 5:50:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		95.3	%REC	1	5/28/2008 5:50:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		113.1	%REC	1	5/28/2008 5:50:00 AM	TAL
Surr: Toluene-d8		84.3-114		98.6	%REC	1	5/28/2008 5:50:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050900-001A	Trip Blank	5/12/2008	Trip Blank	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/23/2008
08050900-002A	VMW 115	5/20/2008	Groundwater	SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/23/2008	5/28/2008
08050900-002B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-002C				SW-846 9012A (Total) Modified		5/29/2008
08050900-002D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/23/2008
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-003A	VMW114			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/23/2008	5/28/2008
				SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/23/2008	5/28/2008
08050900-003B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-003C				SW-846 9012A (Total) Modified		5/29/2008
08050900-003D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/23/2008
08050900-004A	VMW113			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/23/2008	5/28/2008
08050900-004B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-004C				SW-846 9012A (Total) Modified		5/29/2008
08050900-004D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/24/2008
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008



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## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050900-005A	VMW107	5/20/2008	Groundwater	SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/23/2008	5/28/2008
08050900-005B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-005C				SW-846 9012A (Total) Modified		5/29/2008
08050900-005D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/24/2008
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-006A	VMW116			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-006B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-006C				SW-846 9012A (Total) Modified		5/29/2008
08050900-006D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/24/2008
08050900-007A	VMW106	5/21/2008		SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-007B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-007C				SW-846 9012A (Total) Modified		5/29/2008
08050900-007D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/24/2008
08050900-008A	VMW105			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/29/2008
08050900-008B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008

ENVIRONMENTAL TESTING LABORATORY

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## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050900-008B	VMWI05	5/21/2008	Groundwater	SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-008C				SW-846 9012A (Total) Modified		5/29/2008
08050900-008D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/24/2008
08050900-009A	VMWI21			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-009B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-009C				SW-846 9012A (Total) Modified		5/29/2008
08050900-009D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/23/2008	5/24/2008
08050900-010A	VMWI08	5/20/2008		SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/23/2008	5/28/2008
08050900-010B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-010C				SW-846 9012A (Total) Modified		5/29/2008
08050900-010D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-011A	VMW302	5/21/2008		SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
				SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/30/2008
08050900-011B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-011C				SW-846 9012A (Total) Modified		5/29/2008
08050900-011D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008

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**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050900-012A	VMW302D	5/21/2008	Groundwater	SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
				SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/30/2008
08050900-012B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-012C				SW-846 9012A (Total) Modified		5/29/2008
08050900-012D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-013A	VMW110			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
				SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/30/2008
08050900-013B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-013C				SW-846 9012A (Total) Modified		5/29/2008
08050900-013D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-014A	VWM117			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-014B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-014C				SW-846 9012A (Total) Modified		5/29/2008
08050900-014D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-015A	VMW301			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/29/2008

ENVIRONMENTAL TESTING LABORATORY

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**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050900-015B	VMW301	5/21/2008	Groundwater	SW-846 3005A, 6010B. Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/30/2008
08050900-015C				SW-846 9012A (Total) Modified		5/29/2008
08050900-015D				SW-846 5030, 8260B. Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
				SW-846 5030, 8260B. Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-016A	VMW104	5/22/2008		SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-016B				SW-846 3005A, 6010B. Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-016C				SW-846 9012A (Total) Modified		5/29/2008
08050900-016D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-017A	VMW102			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-017B				SW-846 3005A, 6010B. Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-017C				SW-846 9012A (Total) Modified		5/29/2008
08050900-017D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/27/2008
08050900-018A	VMW120			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-018B				SW-846 3005A, 6010B. Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008

ENVIRONMENTAL TESTING LABORATORY

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## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050900-018B	VMW120	5/22/2008	Groundwater	SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-018C				SW-846 9012A (Total) Modified		5/29/2008
08050900-018D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-019A	VMW119			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/29/2008
08050900-019B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-019C				SW-846 9012A (Total) Modified		5/29/2008
08050900-019D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-020A	VMW111A			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/29/2008
08050900-020B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/29/2008
08050900-020C				SW-846 9012A (Total) Modified		5/29/2008
08050900-020D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-021A	VMW303			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/29/2008
08050900-021B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/24/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/27/2008
08050900-021C				SW-846 9012A (Total) Modified		5/29/2008
08050900-021D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008

ENVIRONMENTAL TESTING LABORATORY

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**Client:** Philip Environmental  
**Project:** A831-735002-012901-225/IP Champaign 62403053  
**Lab Order:** 08050900  
**Report Date:** 02-Jun-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050900-022A	VMW303D	5/22/2008	Groundwater	SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-022B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/24/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/28/2008
08050900-022C				SW-846 9012A (Total) Modified		5/29/2008
08050900-022D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-023A	VMW304			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-023B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/24/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/28/2008
08050900-023C				SW-846 9012A (Total) Modified		5/29/2008
08050900-023D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/28/2008	5/29/2008
08050900-024A	VMW118			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-024B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/24/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/28/2008
08050900-024C				SW-846 9012A (Total) Modified		5/29/2008
08050900-024D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/28/2008	5/29/2008
08050900-025A	VMW109			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-025B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008

ENVIRONMENTAL TESTING LABORATORY

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## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08050900-025B	VMW109	5/22/2008	Groundwater	SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/24/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/28/2008
08050900-025C				SW-846 9012A (Total) Modified		5/29/2008
08050900-025D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-026A	VMW300	5/23/2008		SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008
08050900-026B				SW-846 3005A, 6010B, Metals by ICP (Total)	5/23/2008	5/27/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/24/2008
				SW-846 3020A, Metals by GFAA (Total)	5/23/2008	5/28/2008
08050900-026C				SW-846 9012A (Total) Modified		5/29/2008
08050900-026D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/27/2008	5/28/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

		Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: **SW6010B**

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: <b>MB-45099</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108579</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45099</b>	<b>SOP 3034</b>	Analysis Date: <b>5/27/2008</b>	SeqNo: <b>1958251</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 0.0100	0.0100	0.01000	0	0	-100	100				

Sample ID: <b>LCS-45099</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108579</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45099</b>	<b>SOP 3034</b>	Analysis Date: <b>5/27/2008</b>	SeqNo: <b>1958252</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.207	0.0100	0.2000	0	103.6	85	115				

Sample ID: <b>MB-45099</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108601</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45099</b>	<b>SOP 3034</b>	Analysis Date: <b>5/27/2008</b>	SeqNo: <b>1958736</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 0.0100	0.0100	0.01000	0	0	-100	100				

Sample ID: <b>LCS-45099</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108601</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45099</b>	<b>SOP 3034</b>	Analysis Date: <b>5/27/2008</b>	SeqNo: <b>1958737</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.216	0.0100	0.2000	0	108.2	85	115				

Sample ID: <b>08050900-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108601</b>							
Client ID: <b>VMW 115MS</b>	Batch ID: <b>45099</b>	<b>SOP 3034</b>	Analysis Date: <b>5/27/2008</b>	SeqNo: <b>1958744</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.201	0.0100	0.2000	0	100.7	75	125				

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Test Number:** SW6010B

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID: 08050900-002BMSD	SampType: MSD	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108601
Client ID: VMW 115MSD	Batch ID: 45099	SOP 3034	Analysis Date: 5/27/2008	SeqNo: 1958745
Analyte	Result	PQL	SPK value	SPK Ref Val
Chromium	0.199	0.0100	0.2000	0
		%REC	LowLimit	HighLimit
		99.4	75	125
			RPD Ref Val	%RPD
			0.2013	1.30
				RPDLimit
				20

Sample ID: MB-45106	SampType: MBLK	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108601
Client ID: ZZZZZZ	Batch ID: 45106	SOP 3034	Analysis Date: 5/27/2008	SeqNo: 1958756
Analyte	Result	PQL	SPK value	SPK Ref Val
Chromium	< 0.0100	0.0100	0.01000	0
		%REC	LowLimit	HighLimit
		0	-100	100
			RPD Ref Val	%RPD
				RPDLimit
				Qual

Sample ID: LCS-45106	SampType: LCS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108601
Client ID: ZZZZZZ	Batch ID: 45106	SOP 3034	Analysis Date: 5/27/2008	SeqNo: 1958758
Analyte	Result	PQL	SPK value	SPK Ref Val
Chromium	0.215	0.0100	0.2000	0
		%REC	LowLimit	HighLimit
		107.4	85	115
			RPD Ref Val	%RPD
				RPDLimit
				Qual

Sample ID: 08050900-015BMS	SampType: MS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108601
Client ID: VMW301MS	Batch ID: 45106	SOP 3034	Analysis Date: 5/27/2008	SeqNo: 1958767
Analyte	Result	PQL	SPK value	SPK Ref Val
Chromium	0.202	0.0100	0.2000	0
		%REC	LowLimit	HighLimit
		101.2	75	125
			RPD Ref Val	%RPD
				RPDLimit
				Qual

Sample ID: 08050900-015BMSD	SampType: MSD	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108601
Client ID: VMW301MSD	Batch ID: 45106	SOP 3034	Analysis Date: 5/27/2008	SeqNo: 1958768
Analyte	Result	PQL	SPK value	SPK Ref Val
Chromium	0.206	0.0100	0.2000	0
		%REC	LowLimit	HighLimit
		102.8	75	125
			RPD Ref Val	%RPD
			0.2025	1.57
				RPDLimit
				20

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW7000 G

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: MB-45107	SampType: MBLK	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108554
Client ID: ZZZZZZ	Batch ID: 45107	SOP 3044	Analysis Date: 5/24/2008	SeqNo: 1957397
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	< 0.0020	0.0020	0.002000	0
		%REC	LowLimit	HighLimit
		0	-100	100
		%RPD	RPDLimit	Qual

Sample ID: LCS-45107	SampType: LCS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108588
Client ID: ZZZZZZ	Batch ID: 45107	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1958419
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	0.0153	0.0020	0.01500	0
		%REC	LowLimit	HighLimit
		102.0	80	120
		%RPD	RPDLimit	Qual

Sample ID: 08050900-021BMSD	SampType: MSD	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108588
Client ID: VMW303MSD	Batch ID: 45107	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1958422
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	0.0162	0.0020	0.01500	0
		%REC	LowLimit	HighLimit
		107.7	70	130
		%RPD	RPDLimit	Qual
			0.01559	20

Sample ID: 08050900-021BMS	SampType: MS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108588
Client ID: VMW303MS	Batch ID: 45107	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1958441
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	0.0156	0.0020	0.01500	0
		%REC	LowLimit	HighLimit
		103.9	70	130
		%RPD	RPDLimit	Qual

Sample ID: MB-45104	SampType: MBLK	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108637
Client ID: ZZZZZZ	Batch ID: 45104	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1959915
Analyte	Result	PQL	SPK value	SPK Ref Val
Arsenic	< 0.0030	0.0030	0.003000	0
		%REC	LowLimit	HighLimit
		0	-100	100
		%RPD	RPDLimit	Qual

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050900

Report Date: 02-Jun-08

Test Number: SW7000 G

Sample ID: LCS-45104	SampType: LCS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108637
Client ID: ZZZZZZ	Batch ID: 45104	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1959917
Analyte	Result	PQL	SPK value	SPK Ref Val
Arsenic	0.0133	0.0030	0.01500	0
			%REC	LowLimit
			88.8	80
			HighLimit	RPD Ref Val
				120
			%RPD	RPDLimit
				Qual

Sample ID: 08050900-015BMS	SampType: MS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108637
Client ID: VMW301MS	Batch ID: 45104	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1959939
Analyte	Result	PQL	SPK value	SPK Ref Val
Arsenic	0.0163	0.0030	0.01500	0.001080
			%REC	LowLimit
			101.4	70
			HighLimit	RPD Ref Val
				130
			%RPD	RPDLimit
				Qual

Sample ID: 08050900-015BMSD	SampType: MSD	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108637
Client ID: VMW301MSD	Batch ID: 45104	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1959940
Analyte	Result	PQL	SPK value	SPK Ref Val
Arsenic	0.0153	0.0030	0.01500	0.001080
			%REC	LowLimit
			95.0	70
			HighLimit	RPD Ref Val
				0.01629
			%RPD	RPDLimit
				20

Sample ID: MB-45107	SampType: MBLK	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108637
Client ID: ZZZZZZ	Batch ID: 45107	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1959948
Analyte	Result	PQL	SPK value	SPK Ref Val
Arsenic	< 0.0030	0.0030	0.003000	0
			%REC	LowLimit
			0	-100
			HighLimit	RPD Ref Val
				100
			%RPD	RPDLimit
				Qual

Sample ID: LCS-45107	SampType: LCS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108637
Client ID: ZZZZZZ	Batch ID: 45107	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1959949
Analyte	Result	PQL	SPK value	SPK Ref Val
Arsenic	0.0147	0.0030	0.01500	0
			%REC	LowLimit
			98.3	80
			HighLimit	RPD Ref Val
				120
			%RPD	RPDLimit
				Qual

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW7000 G

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: 08050900-021BMS	SampType: MS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108637
Client ID: VMW303MS	Batch ID: 45107	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1959951
Analyte	Result	PQL	SPK value	SPK Ref Val
Arsenic	0.0183	0.0060	0.01500	0.002298
			%REC	HighLimit
			106.9	70
				130
				%RPD
				RPDLimit
				Qual

Sample ID: 08050900-021BMSD	SampType: MSD	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108637
Client ID: VMW303MSD	Batch ID: 45107	SOP 3044	Analysis Date: 5/27/2008	SeqNo: 1959952
Analyte	Result	PQL	SPK value	SPK Ref Val
Arsenic	0.0181	0.0030	0.01500	0.002298
			%REC	HighLimit
			105.6	70
				130
				0.01834
				1.06
				20

Sample ID: MB-45104	SampType: MBLK	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108725
Client ID: ZZZZZZ	Batch ID: 45104	SOP 3044	Analysis Date: 5/29/2008	SeqNo: 1962681
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	< 0.0020	0.0020	0.002000	0
			%REC	HighLimit
			0	-100
				100

Sample ID: LCS-45104	SampType: LCS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108725
Client ID: ZZZZZZ	Batch ID: 45104	SOP 3044	Analysis Date: 5/29/2008	SeqNo: 1962682
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	0.0158	0.0020	0.01500	0
			%REC	HighLimit
			105.0	80
				120

Sample ID: MB-45104	SampType: MBLK	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108762
Client ID: ZZZZZZ	Batch ID: 45104	SOP 3044	Analysis Date: 5/30/2008	SeqNo: 1963448
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	< 0.0020	0.0020	0.002000	0
			%REC	HighLimit
			0	-100
				100

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

**Test Number:** SW7000 G

Sample ID: 08050900-015BMS	SampType: MS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108762
Client ID: VMW301MS	Batch ID: 45104	SOP 3044	Analysis Date: 5/30/2008	SeqNo: 1963464
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	0.0152	0.0020	0.01500	0.0009506
			%REC	LowLimit
			94.8	70
			HighLimit	RPD Ref Val
			130	130
			%RPD	RPDLimit
				Qual

Sample ID: 08050900-015BMSD	SampType: MSD	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108762
Client ID: VMW301MSD	Batch ID: 45104	SOP 3044	Analysis Date: 5/30/2008	SeqNo: 1963465
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	0.0153	0.0020	0.01500	0.0009506
			%REC	LowLimit
			95.9	70
			HighLimit	RPD Ref Val
			130	0.01517
			%RPD	RPDLimit
				20

Sample ID: LCS-45104	SampType: LCS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108762
Client ID: ZZZZZZ	Batch ID: 45104	SOP 3044	Analysis Date: 5/30/2008	SeqNo: 1963466
Analyte	Result	PQL	SPK value	SPK Ref Val
Lead	0.0141	0.0020	0.01500	0
			%REC	LowLimit
			94.2	80
			HighLimit	RPD Ref Val
				120
			%RPD	RPDLimit
				Qual

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Test Number:** SW8260B

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

Sample ID: <b>LCS-T080523-2</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108604</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45122</b>	<b>SW5030</b>	Analysis Date: <b>5/23/2008</b>	SeqNo: <b>1958860</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.9	2.0	50.00	0	101.9	82.7	117				
Ethylbenzene	52.4	5.0	50.00	0	104.9	83	113				
Toluene	49.0	5.0	50.00	0	97.9	79.6	116				
Xylenes, Total	106	5.0	100.0	0	105.9	80.3	120				
Surr: 1,2-Dichloroethane-d4	48.9		50.00		97.8	74.7	129				
Surr: 4-Bromofluorobenzene	51.6		50.00		103.3	86	119				
Surr: Dibromofluoromethane	49.5		50.00		99.0	81.7	123				
Surr: Toluene-d8	48.0		50.00		96.0	84.3	114				

Sample ID: <b>LCS-D-T080523-2</b>	SampType: <b>LCS-D</b>	Units: <b>µg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108604</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45122</b>	<b>SW5030</b>	Analysis Date: <b>5/23/2008</b>	SeqNo: <b>1958861</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.0	2.0	50.00	0	104.0	82.7	117	50.94	2.08	20	
Ethylbenzene	52.7	5.0	50.00	0	105.4	83	113	52.45	0.476	20	
Toluene	49.5	5.0	50.00	0	99.1	79.6	116	48.96	1.18	20	
Xylenes, Total	105	5.0	100.0	0	104.8	80.3	120	105.9	0.968	20	
Surr: 1,2-Dichloroethane-d4	49.0		50.00		97.9	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	51.7		50.00		103.4	86	119		0	0	
Surr: Dibromofluoromethane	49.6		50.00		99.2	81.7	123		0	0	
Surr: Toluene-d8	47.3		50.00		94.6	84.3	114		0	0	

Sample ID: <b>MBLK-T080523-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108604</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45122</b>	<b>SW5030</b>	Analysis Date: <b>5/23/2008</b>	SeqNo: <b>1958862</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Ethylbenzene	ND	5.0									
Toluene	ND	5.0									
Xylenes, Total	ND	5.0									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW8260B

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: <b>MBLK-T080523-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>5/23/2008</b>	RunNo: <b>108604</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45122</b>	<b>SW5030</b>	Analysis Date: <b>5/23/2008</b>	SeqNo: <b>1958862</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	47.0		50.00		94.0	74.7	129				
Surr: 4-Bromofluorobenzene	51.2		50.00		102.4	86	119				
Surr: Dibromofluoromethane	48.7		50.00		97.3	81.7	123				
Surr: Toluene-d8	47.4		50.00		94.8	84.3	114				

Sample ID: <b>LCS-T080528-2</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>5/28/2008</b>	RunNo: <b>108729</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45205</b>	<b>SW5030</b>	Analysis Date: <b>5/28/2008</b>	SeqNo: <b>1962356</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.5	2.0	50.00	0	105.1	82.7	117				
Ethylbenzene	51.8	5.0	50.00	0	103.7	83	113				
Toluene	47.8	5.0	50.00	0	95.6	79.6	116				
Xylenes, Total	105	5.0	100.0	0	105.2	80.3	120				
Surr: 1,2-Dichloroethane-d4	43.6		50.00		87.2	74.7	129				
Surr: 4-Bromofluorobenzene	49.5		50.00		99.0	86	119				
Surr: Dibromofluoromethane	48.2		50.00		96.4	81.7	123				
Surr: Toluene-d8	46.1		50.00		92.1	84.3	114				

Sample ID: <b>LCSD-T080528-2</b>	SampType: <b>LCSD</b>	Units: <b>µg/L</b>	Prep Date: <b>5/28/2008</b>	RunNo: <b>108729</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45205</b>	<b>SW5030</b>	Analysis Date: <b>5/28/2008</b>	SeqNo: <b>1962357</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.5	2.0	50.00	0	101.0	82.7	117	52.54	4.00	20	
Ethylbenzene	51.0	5.0	50.00	0	102.0	83	113	51.85	1.65	20	
Toluene	46.6	5.0	50.00	0	93.2	79.6	116	47.78	2.54	20	
Xylenes, Total	102	5.0	100.0	0	102.2	80.3	120	105.2	2.84	20	
Surr: 1,2-Dichloroethane-d4	42.4		50.00		84.7	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	48.4		50.00		96.7	86	119		0	0	
Surr: Dibromofluoromethane	47.6		50.00		95.2	81.7	123		0	0	
Surr: Toluene-d8	46.0		50.00		91.9	84.3	114		0	0	



# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

**Test Number:** SW8260B

Sample ID: <b>MBLK-T080528-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	RunNo: <b>108729</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45205</b>	<b>SW5030</b>	SeqNo: <b>1962358</b>
		Prep Date: <b>5/28/2008</b>	
		Analysis Date: <b>5/28/2008</b>	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	2.0									
Ethylbenzene	ND	5.0									
Toluene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	42.1		50.00		84.2	74.7	129				
Surr: 4-Bromofluorobenzene	48.0		50.00		96.0	86	119				
Surr: Dibromofluoromethane	47.7		50.00		95.4	81.7	123				
Surr: Toluene-d8	46.0		50.00		92.1	84.3	114				

Sample ID: <b>08050900-003DMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	RunNo: <b>108604</b>
Client ID: <b>VMW114MS</b>	Batch ID: <b>45122</b>	<b>SW5030</b>	SeqNo: <b>1958870</b>
		Prep Date: <b>5/23/2008</b>	
		Analysis Date: <b>5/24/2008</b>	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	6210	200	5600	1322	87.3	57.8	125				
Toluene	5280	500	5600	148.0	91.6	75.8	123				
Ethylbenzene	7030	500	5600	1232	103.5	72.8	123				
Xylenes, Total	12600	500	11200	1008	103.4	73	127				
Surr: 1,2-Dichloroethane-d4	4680		5000		93.6	74.7	129				
Surr: 4-Bromofluorobenzene	5050		5000		101.1	86	119				
Surr: Dibromofluoromethane	5010		5000		100.2	81.7	123				
Surr: Toluene-d8	4760		5000		95.3	84.3	114				

Sample ID: <b>08050900-003DMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	RunNo: <b>108604</b>
Client ID: <b>VMW114MSD</b>	Batch ID: <b>45122</b>	<b>SW5030</b>	SeqNo: <b>1958871</b>
		Prep Date: <b>5/23/2008</b>	
		Analysis Date: <b>5/24/2008</b>	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	6380	200	5600	1322	90.3	57.8	125	6213	2.65	20	
Toluene	5510	500	5600	148.0	95.8	75.8	123	5276	4.39	20	
Ethylbenzene	7250	500	5600	1232	107.4	72.8	123	7027	3.07	20	
Xylenes, Total	13100	500	11200	1008	107.6	73	127	12590	3.63	20	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050900

Report Date: 02-Jun-08

Test Number: SW8260B

Sample ID: 08050900-003DMSD	SampType: MSD	Units: µg/L	Prep Date: 5/23/2008	RunNo: 108604
Client ID: VMW114MSD	Batch ID: 45122	SW5030	Analysis Date: 5/24/2008	SeqNo: 1958871

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	4640		5000		92.7	74.7	129		0	0	0
Surr: 4-Bromofluorobenzene	5150		5000		103.0	86	119		0	0	0
Surr: Dibromofluoromethane	4910		5000		98.2	81.7	123		0	0	0
Surr: Toluene-d8	4780		5000		95.5	84.3	114		0	0	0

Sample ID: LCS-R080527-1	SampType: LCS	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108662
Client ID: ZZZZZZ	Batch ID: 45166	SW5030	Analysis Date: 5/27/2008	SeqNo: 1960678

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	55.0	2.0	50.00	0	110.1	82.7	117				
Toluene	50.9	5.0	50.00	0	101.9	79.6	116				
Ethylbenzene	51.0	5.0	50.00	0	102.0	83	113				
Xylenes, Total	101	5.0	100.0	0	101.1	80.3	120				
Surr: 1,2-Dichloroethane-d4	60.1		50.00		120.1	74.7	129				
Surr: 4-Bromofluorobenzene	46.9		50.00		93.8	86	119				
Surr: Dibromofluoromethane	54.7		50.00		109.3	81.7	123				
Surr: Toluene-d8	48.8		50.00		97.5	84.3	114				

Sample ID: LCSD-R080527-1	SampType: LCSD	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108662
Client ID: ZZZZZZ	Batch ID: 45166	SW5030	Analysis Date: 5/27/2008	SeqNo: 1960679

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	53.8	2.0	50.00	0	107.6	82.7	117	55.03	2.28	20	
Toluene	49.9	5.0	50.00	0	99.9	79.6	116	50.94	2.00	20	
Ethylbenzene	49.8	5.0	50.00	0	99.6	83	113	50.98	2.30	20	
Xylenes, Total	98.7	5.0	100.0	0	98.7	80.3	120	101.1	2.35	0	
Surr: 1,2-Dichloroethane-d4	60.4		50.00		120.8	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	46.4		50.00		92.8	86	119		0	0	
Surr: Dibromofluoromethane	54.8		50.00		109.6	81.7	123		0	0	
Surr: Toluene-d8	48.8		50.00		97.6	84.3	114		0	0	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW8260B

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: <b>MBLK-R080527-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>5/27/2008</b>	RunNo: <b>108662</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45166</b>	<b>SW5030</b>	Analysis Date: <b>5/27/2008</b>	SeqNo: <b>1960680</b>							
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	57.7		50.00		115.4	74.7	129				
Surr: 4-Bromofluorobenzene	47.7		50.00		95.3	86	119				
Surr: Dibromofluoromethane	55.6		50.00		111.2	81.7	123				
Surr: Toluene-d8	49.6		50.00		99.3	84.3	114				

Sample ID: <b>LCS-R080527-2</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>5/27/2008</b>	RunNo: <b>108671</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45168</b>	<b>SW5030</b>	Analysis Date: <b>5/27/2008</b>	SeqNo: <b>1960846</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	53.7	2.0	50.00	0	107.5	82.7	117				
Toluene	49.7	5.0	50.00	0	99.4	79.6	116				
Ethylbenzene	49.5	5.0	50.00	0	98.9	83	113				
Xylenes, Total	98.5	5.0	100.0	0	98.5	80.3	120				
Surr: 1,2-Dichloroethane-d4	60.1		50.00		120.2	74.7	129				
Surr: 4-Bromofluorobenzene	46.9		50.00		93.8	86	119				
Surr: Dibromofluoromethane	54.8		50.00		109.5	81.7	123				
Surr: Toluene-d8	48.8		50.00		97.6	84.3	114				

Sample ID: <b>LCSD-R080527-2</b>	SampType: <b>LCSD</b>	Units: <b>µg/L</b>	Prep Date: <b>5/27/2008</b>	RunNo: <b>108671</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45168</b>	<b>SW5030</b>	Analysis Date: <b>5/27/2008</b>	SeqNo: <b>1960847</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	56.0	2.0	50.00	0	111.9	82.7	117	53.73	4.07	20	
Toluene	52.4	5.0	50.00	0	104.7	79.6	116	49.70	5.23	20	
Ethylbenzene	52.1	5.0	50.00	0	104.1	83	113	49.46	5.12	20	
Xylenes, Total	103	5.0	100.0	0	103.4	80.3	120	98.45	4.89	0	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW8260B

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: LCSD-R080527-2	SampType: LCSD	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108671
Client ID: ZZZZZZ	Batch ID: 45168	SW5030	Analysis Date: 5/27/2008	SeqNo: 1960847

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	60.5		50.00		121.1	74.7	129		0	0	0
Surr: 4-Bromofluorobenzene	46.2		50.00		92.5	86	119		0	0	0
Surr: Dibromofluoromethane	54.7		50.00		109.4	81.7	123		0	0	0
Surr: Toluene-d8	49.0		50.00		98.1	84.3	114		0	0	0

Sample ID: MBLK-R080527-2	SampType: MBLK	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108671
Client ID: ZZZZZZ	Batch ID: 45168	SW5030	Analysis Date: 5/27/2008	SeqNo: 1960848

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	57.7		50.00		115.5	74.7	129				
Surr: 4-Bromofluorobenzene	47.6		50.00		95.1	86	119				
Surr: Dibromofluoromethane	56.1		50.00		112.2	81.7	123				
Surr: Toluene-d8	49.6		50.00		99.2	84.3	114				

Sample ID: 08050900-015DMS	SampType: MS	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108671
Client ID: VMW301MS	Batch ID: 45166	SW5030	Analysis Date: 5/28/2008	SeqNo: 1960851

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.3	2.0	56.00	0	82.6	57.8	125				
Toluene	49.8	5.0	56.00	0	89.0	75.8	123				
Ethylbenzene	51.9	5.0	56.00	0	92.7	72.8	123				
Xylenes, Total	103	5.0	112.0	2.930	89.4	73	127				
Surr: 1,2-Dichloroethane-d4	57.7		50.00		115.5	74.7	129				
Surr: 4-Bromofluorobenzene	48.1		50.00		96.1	86	119				
Surr: Dibromofluoromethane	54.1		50.00		108.2	81.7	123				
Surr: Toluene-d8	48.4		50.00		96.8	84.3	114				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW8260B

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: 08050900-015DMSD	SampType: MSD	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108671							
Client ID: VMW301MSD	Batch ID: 45166	SW5030	Analysis Date: 5/28/2008	SeqNo: 1960852							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.0	2.0	56.00	0	82.2	57.8	125	46.26	0.542	20	
Toluene	50.2	5.0	56.00	0	89.6	75.8	123	49.85	0.660	20	
Ethylbenzene	51.9	5.0	56.00	0	92.7	72.8	123	51.89	0.0193	20	
Xylenes, Total	104	5.0	112.0	2.930	90.6	73	127	103.1	1.29	20	
Surr: 1,2-Dichloroethane-d4	58.3		50.00		116.7	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	47.6		50.00		95.1	86	119		0	0	
Surr: Dibromofluoromethane	54.3		50.00		108.5	81.7	123		0	0	
Surr: Toluene-d8	48.8		50.00		97.5	84.3	114		0	0	

Sample ID: 08050900-026DMS	SampType: MS	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108671							
Client ID: VMW300MS	Batch ID: 45168	SW5030	Analysis Date: 5/28/2008	SeqNo: 1960862							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.4	2.0	56.00	0	82.8	57.8	125				
Toluene	51.4	5.0	56.00	0	91.8	75.8	123				
Ethylbenzene	52.8	5.0	56.00	0	94.2	72.8	123				
Xylenes, Total	101	5.0	112.0	0	90.4	73	127				
Surr: 1,2-Dichloroethane-d4	58.9		50.00		117.9	74.7	129				
Surr: 4-Bromofluorobenzene	49.2		50.00		98.4	86	119				
Surr: Dibromofluoromethane	55.6		50.00		111.1	81.7	123				
Surr: Toluene-d8	48.8		50.00		97.6	84.3	114				

Sample ID: 08050900-026DMSD	SampType: MSD	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108671							
Client ID: VMW300MSD	Batch ID: 45168	SW5030	Analysis Date: 5/28/2008	SeqNo: 1960863							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.5	2.0	56.00	0	83.0	57.8	125	46.39	0.215	20	
Toluene	51.9	5.0	56.00	0	92.7	75.8	123	51.38	0.988	20	
Ethylbenzene	53.2	5.0	56.00	0	94.9	72.8	123	52.75	0.793	20	
Xylenes, Total	102	5.0	112.0	0	91.3	73	127	101.3	1.00	20	

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

**Test Number:** SW8260B

Sample ID: 08050900-026DMSD	Samp Type: MSD	Units: µg/L	Prep Date: 5/27/2008	RunNo: 108671							
Client ID: VMW300MSD	Batch ID: 45168	SW5030	Analysis Date: 5/28/2008	SeqNo: 1960863							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	59.2		50.00		118.4	74.7	129		0	0	0
Surr: 4-Bromofluorobenzene	49.3		50.00		98.5	86	119		0	0	0
Surr: Dibromofluoromethane	55.4		50.00		110.9	81.7	123		0	0	0
Surr: Toluene-d8	48.9		50.00		97.8	84.3	114		0	0	0

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

**Test Number:** SW8270C

Sample ID: <b>MB-45076</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	RunNo: <b>108529</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45076</b>	<b>SW3510C</b>	SeqNo: <b>1956810</b>
		Prep Date: <b>5/23/2008</b>	
		Analysis Date: <b>5/23/2008</b>	
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							
m,p-Cresol	ND	0.00010							
Naphthalene	ND	0.00010							
o-Cresol	ND	0.00010							
Phenanthrene	ND	0.00010							
Pyrene	ND	0.00010							
Total PNAs except Naphthalene	ND	0.00013							
Surr: 2-Fluorobiphenyl	0.00345		0.005000		69.0	45.7	108		
Surr: Nitrobenzene-d5	0.00334		0.005000		66.8	39.4	112		
Surr: p-Terphenyl-d14	0.00413		0.005000		82.6	58.6	130		

Sample ID: <b>LCS-45076</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	RunNo: <b>108529</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45076</b>	<b>SW3510C</b>	SeqNo: <b>1956811</b>
		Prep Date: <b>5/23/2008</b>	
		Analysis Date: <b>5/23/2008</b>	
Analyte	Result	PQL	SPK value
			SPK Ref Val
			%REC
			LowLimit
			HighLimit
			RPD Ref Val
			%RPD
			RPDLimit
			Qual

Acenaphthene	0.00362	0.00010	0.005000		72.4	50.1	103		
Acenaphthylene	0.00460	0.00010	0.005000		92.1	53.3	122		
Anthracene	0.00367	0.00010	0.005000		73.3	57.4	110		

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050900

Report Date: 02-Jun-08

Test Number: SW8270C

Sample ID: LCS-45076	SampType: LCS	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108529							
Client ID: ZZZZZZ	Batch ID: 45076	SW3510C	Analysis Date: 5/23/2008	SeqNo: 1956811							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.00356	0.00010	0.005000	0	71.1	56	102				
Benzo(a)pyrene	0.00417	0.00010	0.005000	0	83.3	55.4	125				
Benzo(b)fluoranthene	0.00409	0.00010	0.005000	0	81.9	59.3	127				
Benzo(g,h,i)perylene	0.00404	0.00010	0.005000	0	80.9	58.4	125				
Benzo(k)fluoranthene	0.00391	0.00010	0.005000	0	78.2	61.5	125				
Chrysene	0.00387	0.00010	0.005000	0	77.4	58.7	118				
Dibenzo(a,h)anthracene	0.00413	0.00010	0.005000	0	82.7	59.3	126				
Fluoranthene	0.00367	0.00010	0.005000	0	73.4	60.1	117				
Fluorene	0.00372	0.00010	0.005000	0	74.5	54.1	110				
Indeno(1,2,3-cd)pyrene	0.00404	0.00010	0.005000	0	80.8	58.1	123				
m,p-Cresol	0.00285	0.00010	0.005000	0	57.1	17.9	107				
Naphthalene	0.00332	0.00010	0.005000	0	66.3	36.3	97.1				
o-Cresol	0.00334	0.00010	0.005000	0	66.7	20.5	109				
Phenanthrene	0.00356	0.00010	0.005000	0	71.3	55.9	107				
Pyrene	0.00377	0.00010	0.005000	0	75.3	61.4	116				
Surr: 2-Fluorobiphenyl	0.00328		0.005000		65.6	41.9	97.9				
Surr: Nitrobenzene-d5	0.00348		0.005000		69.6	39.9	106				
Surr: p-Terphenyl-d14	0.00409		0.005000		81.8	53	116				

Sample ID: LCS-D-45076	SampType: LCS-D	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108529							
Client ID: ZZZZZZ	Batch ID: 45076	SW3510C	Analysis Date: 5/23/2008	SeqNo: 1956812							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00360	0.00010	0.005000	0	72.0	50.1	103	0.003619	0.499	50	
Acenaphthylene	0.00462	0.00010	0.005000	0	92.4	53.3	122	0.004603	0.347	50	
Anthracene	0.00389	0.00010	0.005000	0	77.8	57.4	110	0.003667	5.90	50	
Benzo(a)anthracene	0.00364	0.00010	0.005000	0	72.9	56	102	0.003556	2.44	50	
Benzo(a)pyrene	0.00414	0.00010	0.005000	0	82.7	55.4	125	0.004166	0.723	50	
Benzo(b)fluoranthene	0.00399	0.00010	0.005000	0	79.7	59.3	127	0.004093	2.62	50	
Benzo(g,h,i)perylene	0.00400	0.00010	0.005000	0	79.9	58.4	125	0.004044	1.19	50	



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW8270C

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: LCSD-45076	SampType: LCSD	Units: mg/L	Prep Date: 5/23/2008	RunNo: 108529							
Client ID: ZZZZZZ	Batch ID: 45076	SW3510C	Analysis Date: 5/23/2008	SeqNo: 1956812							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.00388	0.00010	0.005000	0	77.6	61.5	125	0.003911	0.770	50	50
Chrysene	0.00397	0.00010	0.005000	0	79.5	58.7	118	0.003869	2.68	50	50
Dibenzo(a,h)anthracene	0.00414	0.00010	0.005000	0	82.8	59.3	126	0.004134	0.169	50	50
Fluoranthene	0.00386	0.00010	0.005000	0	77.2	60.1	117	0.003668	5.05	50	50
Fluorene	0.00376	0.00010	0.005000	0	75.3	54.1	110	0.003725	1.04	50	50
Indeno(1,2,3-cd)pyrene	0.00402	0.00010	0.005000	0	80.5	58.1	123	0.004041	0.422	50	50
m,p-Cresol	0.00296	0.00010	0.005000	0	59.1	17.9	107	0.002853	3.55	50	50
Naphthalene	0.00309	0.00010	0.005000	0	61.8	36.3	97.1	0.003316	6.99	50	50
o-Cresol	0.00353	0.00010	0.005000	0	70.6	20.5	109	0.003336	5.59	50	50
Phenanthrene	0.00382	0.00010	0.005000	0	76.4	55.9	107	0.003564	6.96	50	50
Pyrene	0.00390	0.00010	0.005000	0	77.9	61.4	116	0.003766	3.42	50	50
Surr: 2-Fluorobiphenyl	0.00353		0.005000		70.6	41.9	97.9		0	50	50
Surr: Nitrobenzene-d5	0.00363		0.005000		72.6	39.9	106		0	50	50
Surr: p-Terphenyl-d14	0.00438		0.005000		87.6	53	116		0	50	50

Sample ID: MB-45119	SampType: MBLK	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108638							
Client ID: ZZZZZZ	Batch ID: 45119	SW3510C	Analysis Date: 5/27/2008	SeqNo: 1959967							
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									
Bis(2-ethylhexyl)phthalate	ND	0.00200									
Chrysene	ND	0.00010									
Dibenzo(a,h)anthracene	ND	0.00010									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW8270C

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: MB-45119	SampType: MBLK	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108638							
Client ID: ZZZZZZ	Batch ID: 45119	SW3510C	Analysis Date: 5/27/2008	SeqNo: 1959967							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diethyl phthalate	ND	0.00100									
Dimethyl phthalate	ND	0.00100									
Di-n-butyl phthalate	ND	0.00100									
Fluoranthene	ND	0.00010									
Fluorene	ND	0.00010									
Indeno(1,2,3-cd)pyrene	ND	0.00010									
m,p-Cresol	ND	0.00010									
Naphthalene	ND	0.00010									
o-Cresol	ND	0.00010									
Phenanthrene	ND	0.00010									
Pyrene	ND	0.00010									
Total PNAs except Naphthalene	ND	0.00013									
Surr: 2-Fluorobiphenyl	0.00315		0.005000		63.0	45.7	108				
Surr: 2-Fluorophenol	0.00457		0.01000		45.7	20.9	78.6				
Surr: Nitrobenzene-d5	0.00352		0.005000		70.4	39.4	112				
Surr: Phenol-d5	0.00287		0.01000		28.7	15.2	52.9				
Surr: p-Terphenyl-d14	0.00389		0.005000		77.8	58.6	130				

Sample ID: LCS-45119	SampType: LCS	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108638							
Client ID: ZZZZZZ	Batch ID: 45119	SW3510C	Analysis Date: 5/27/2008	SeqNo: 1959968							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.00387	0.00010	0.005000	0	77.4	50.1	103				
Acenaphthylene	0.00497	0.00010	0.005000	0	99.4	53.3	122				
Anthracene	0.00392	0.00010	0.005000	0	78.4	57.4	110				
Benzo(a)anthracene	0.00383	0.00010	0.005000	0	76.6	56	102				
Benzo(a)pyrene	0.00426	0.00010	0.005000	0	85.2	55.4	125				
Benzo(b)fluoranthene	0.00407	0.00010	0.005000	0	81.3	59.3	127				
Benzo(g,h,i)perylene	0.00412	0.00010	0.005000	0	82.4	58.4	125				
Benzo(k)fluoranthene	0.00412	0.00010	0.005000	0	82.5	61.5	125				

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

**Test Number:** SW8270C

Sample ID: LCS-45119	Samp Type: LCS	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108638							
Client ID: ZZZZZZ	Batch ID: 45119	SW3510C	Analysis Date: 5/27/2008	SeqNo: 1959968							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	0.00441	0.00200	0.005000	0	88.1	63.2	152				
Chrysene	0.00419	0.00010	0.005000	0	83.8	58.7	118				
Dibenzo(a,h)anthracene	0.00414	0.00010	0.005000	0	82.8	59.3	126				
Diethyl phthalate	0.00402	0.00100	0.005000	0	80.3	55.3	133				
Dimethyl phthalate	0.00407	0.00100	0.005000	0	81.4	55.7	112				
Di-n-butyl phthalate	0.00448	0.00100	0.005000	0	89.6	61.5	130				
Fluoranthene	0.00384	0.00010	0.005000	0	76.9	60.1	117				
Fluorene	0.00397	0.00010	0.005000	0	79.3	54.1	110				
Indeno(1,2,3-cd)pyrene	0.00403	0.00010	0.005000	0	80.6	58.1	123				
m,p-Cresol	0.00283	0.00010	0.005000	0	56.6	17.9	107				
Naphthalene	0.00356	0.00010	0.005000	0	71.1	36.3	97.1				
o-Cresol	0.00352	0.00010	0.005000	0	70.5	20.5	109				
Phenanthrene	0.00393	0.00010	0.005000	0	78.6	55.9	107				
Pyrene	0.00394	0.00010	0.005000	0	78.9	61.4	116				
Surr: 2-Fluorobiphenyl	0.00272		0.005000		54.4	41.9	97.9				
Surr: 2-Fluorophenol	0.00463		0.01000		46.3	16.1	79.2				
Surr: Nitrobenzene-d5	0.00350		0.005000		70.0	39.9	106				
Surr: Phenol-d5	0.00294		0.01000		29.4	9.94	53.7				
Surr: p-Terphenyl-d14	0.00385		0.005000		77.0	53	116				

Sample ID: LCS-45119	Samp Type: LCS	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108638							
Client ID: ZZZZZZ	Batch ID: 45119	SW3510C	Analysis Date: 5/27/2008	SeqNo: 1959969							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00367	0.00010	0.005000	0	73.5	50.1	103	0.003869	5.20	50	
Acenaphthylene	0.00485	0.00010	0.005000	0	97.0	53.3	122	0.004970	2.40	50	
Anthracene	0.00383	0.00010	0.005000	0	76.6	57.4	110	0.003922	2.32	50	
Benzo(a)anthracene	0.00369	0.00010	0.005000	0	73.9	56	102	0.003829	3.59	50	
Benzo(a)pyrene	0.00414	0.00010	0.005000	0	82.8	55.4	125	0.004262	2.93	50	
Benzo(b)fluoranthene	0.00392	0.00010	0.005000	0	78.4	59.3	127	0.004066	3.61	50	

# ANALYTICAL QC SUMMARY REPORT

**Client:** Philip Environmental

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

**Test Number:** SW8270C

Sample ID: LCSD-45119	SampType: LCSD	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108638							
Client ID: ZZZZZZ	Batch ID: 45119	SW3510C	Analysis Date: 5/27/2008	SeqNo: 1959969							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	0.00405	0.00010	0.005000	0	81.1	58.4	125	0.004122	1.66	50	
Benzo(k)fluoranthene	0.00414	0.00010	0.005000	0	82.8	61.5	125	0.004125	0.363	50	
Bis(2-ethylhexyl)phthalate	0.00442	0.00200	0.005000	0	88.5	63.2	152	0.004407	0.385	50	
Chrysene	0.00406	0.00010	0.005000	0	81.1	58.7	118	0.004188	3.20	50	
Dibenzo(a,h)anthracene	0.00401	0.00010	0.005000	0	80.3	59.3	126	0.004139	3.07	50	
Diethyl phthalate	0.00415	0.00100	0.005000	0	83.0	55.3	133	0.004016	3.31	0	
Dimethyl phthalate	0.00402	0.00100	0.005000	0	80.3	55.7	112	0.004070	1.34	0	
Di-n-butyl phthalate	0.00435	0.00100	0.005000	0	87.0	61.5	130	0.004480	2.90	50	
Fluoranthene	0.00378	0.00010	0.005000	0	75.7	60.1	117	0.003843	1.57	50	
Fluorene	0.00376	0.00010	0.005000	0	75.3	54.1	110	0.003967	5.25	50	
Indeno(1,2,3-cd)pyrene	0.00400	0.00010	0.005000	0	80.0	58.1	123	0.004032	0.822	50	
m,p-Cresol	0.00259	0.00010	0.005000	0	51.9	17.9	107	0.002829	8.71	50	
Naphthalene	0.00348	0.00010	0.005000	0	69.6	36.3	97.1	0.003557	2.19	50	
o-Cresol	0.00327	0.00010	0.005000	0	65.4	20.5	109	0.003523	7.48	50	
Phenanthrene	0.00397	0.00010	0.005000	0	79.4	55.9	107	0.003930	0.962	50	
Pyrene	0.00387	0.00010	0.005000	0	77.4	61.4	116	0.003945	1.95	50	
Surr: 2-Fluorobiphenyl	0.00270		0.005000		54.0	41.9	97.9		0	50	
Surr: 2-Fluorophenol	0.00437		0.01000		43.7	16.1	79.2		0	50	
Surr: Nitrobenzene-d5	0.00336		0.005000		67.2	39.9	106		0	50	
Surr: Phenol-d5	0.00275		0.01000		27.5	9.94	53.7		0	50	
Surr: p-Terphenyl-d14	0.00380		0.005000		76.0	53	116		0	50	

Sample ID: MB-45131	SampType: MBLK	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108676							
Client ID: ZZZZZZ	Batch ID: 45131	SW3510C	Analysis Date: 5/28/2008	SeqNo: 1961022							
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									

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050900

Report Date: 02-Jun-08

Test Number: SW8270C

Sample ID: MB-45131	SampType: MBLK	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108676							
Client ID: ZZZZZZ	Batch ID: 45131	SW3510C	Analysis Date: 5/28/2008	SeqNo: 1961022							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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									
Bis(2-ethylhexyl)phthalate	ND	0.00200									
Chrysene	ND	0.00010									
Dibenzo(a,h)anthracene	ND	0.00010									
Diethyl phthalate	ND	0.00100									
Dimethyl phthalate	ND	0.00100									
Di-n-butyl phthalate	ND	0.00100									
Fluoranthene	ND	0.00010									
Fluorene	ND	0.00010									
Indeno(1,2,3-cd)pyrene	ND	0.00010									
m,p-Cresol	ND	0.00010									
Naphthalene	ND	0.00010									
o-Cresol	ND	0.00010									
Phenanthrene	ND	0.00010									
Pyrene	ND	0.00010									
Total PNAs except Naphthalene	ND	0.00013									
Surr: 2-Fluorobiphenyl	0.00301		0.005000		60.2	45.7	108				
Surr: 2-Fluorophenol	0.00448		0.01000		44.8	20.9	78.6				
Surr: Nitrobenzene-d5	0.00325		0.005000		65.0	39.4	112				
Surr: Phenol-d5	0.00279		0.01000		27.9	15.2	52.9				
Surr: p-Terphenyl-d14	0.00384		0.005000		76.8	58.6	130				

Sample ID: LCS-45131	SampType: LCS	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108676							
Client ID: ZZZZZZ	Batch ID: 45131	SW3510C	Analysis Date: 5/28/2008	SeqNo: 1961023							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.00365	0.00010	0.005000		73.0	50.1	103				
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# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050900

Report Date: 02-Jun-08

Test Number: SW8270C

Sample ID: LCS-45131	SampType: LCS	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108676							
Client ID: ZZZZZZ	Batch ID: 45131	SW3510C	Analysis Date: 5/28/2008	SeqNo: 1961023							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	0.00485	0.00010	0.005000	0	97.1	53.3	122				
Anthracene	0.00368	0.00010	0.005000	0	73.6	57.4	110				
Benzo(a)anthracene	0.00354	0.00010	0.005000	0	70.8	56	102				
Benzo(a)pyrene	0.00398	0.00010	0.005000	0	79.7	55.4	125				
Benzo(b)fluoranthene	0.00374	0.00010	0.005000	0	74.7	59.3	127				
Benzo(g,h,i)perylene	0.00408	0.00010	0.005000	0	81.5	58.4	125				
Benzo(k)fluoranthene	0.00386	0.00010	0.005000	0	77.3	61.5	125				
Bis(2-ethylhexyl)phthalate	0.00413	0.00200	0.005000	0	82.6	63.2	152				
Chrysene	0.00399	0.00010	0.005000	0	79.7	58.7	118				
Dibenzo(a,h)anthracene	0.00405	0.00010	0.005000	0	81.1	59.3	126				
Diethyl phthalate	0.00393	0.00100	0.005000	0	78.5	55.3	133				
Dimethyl phthalate	0.00372	0.00100	0.005000	0	74.3	55.7	112				
Di-n-butyl phthalate	0.00388	0.00100	0.005000	0	77.6	61.5	130				
Fluoranthene	0.00358	0.00010	0.005000	0	71.7	60.1	117				
Fluorene	0.00382	0.00010	0.005000	0	76.4	54.1	110				
Indeno(1,2,3-cd)pyrene	0.00396	0.00010	0.005000	0	79.3	58.1	123				
m,p-Cresol	0.00263	0.00010	0.005000	0	52.6	17.9	107				
Naphthalene	0.00327	0.00010	0.005000	0	65.5	36.3	97.1				
o-Cresol	0.00321	0.00010	0.005000	0	64.2	20.5	109				
Phenanthrene	0.00371	0.00010	0.005000	0	74.2	55.9	107				
Pyrene	0.00372	0.00010	0.005000	0	74.3	61.4	116				
Surr: 2-Fluorobiphenyl	0.00237		0.005000		47.4	41.9	97.9				
Surr: 2-Fluorophenol	0.00388		0.01000		38.8	16.1	79.2				
Surr: Nitrobenzene-d5	0.00298		0.005000		59.6	39.9	106				
Surr: Phenol-d5	0.00256		0.01000		25.6	9.94	53.7				
Surr: p-Terphenyl-d14	0.00362		0.005000		72.4	53	116				

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Test Number: SW8270C

Lab Order: 08050900

Report Date: 02-Jun-08

Sample ID: LCSD-45131	SampType: LCSD	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108676							
Client ID: ZZZZZZ	Batch ID: 45131	SW3510C	Analysis Date: 5/28/2008	SeqNo: 1961024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00340	0.00010	0.005000	0	67.9	50.1	103	0.003652	7.24	50	50
Acenaphthylene	0.00438	0.00010	0.005000	0	87.5	53.3	122	0.004854	10.4	50	50
Anthracene	0.00384	0.00010	0.005000	0	76.8	57.4	110	0.003678	4.26	50	50
Benzo(a)anthracene	0.00368	0.00010	0.005000	0	73.6	56	102	0.003539	3.85	50	50
Benzo(a)pyrene	0.00419	0.00010	0.005000	0	83.8	55.4	125	0.003984	5.02	50	50
Benzo(b)fluoranthene	0.00406	0.00010	0.005000	0	81.2	59.3	127	0.003736	8.34	50	50
Benzo(g,h,i)perylene	0.00424	0.00010	0.005000	0	84.9	58.4	125	0.004076	4.01	50	50
Benzo(k)fluoranthene	0.00401	0.00010	0.005000	0	80.2	61.5	125	0.003864	3.71	50	50
Bis(2-ethylhexyl)phthalate	0.00423	0.00200	0.005000	0	84.6	63.2	152	0.004130	2.44	50	50
Chrysene	0.00413	0.00010	0.005000	0	82.5	58.7	118	0.003986	3.45	50	50
Dibenzo(a,h)anthracene	0.00427	0.00010	0.005000	0	85.3	59.3	126	0.004054	5.12	50	50
Diethyl phthalate	0.00386	0.00100	0.005000	0	77.3	55.3	133	0.003927	1.64	0	0
Dimethyl phthalate	0.00384	0.00100	0.005000	0	76.8	55.7	112	0.003716	3.31	0	0
Di-n-butyl phthalate	0.00420	0.00100	0.005000	0	83.9	61.5	130	0.003882	7.77	50	50
Fluoranthene	0.00375	0.00010	0.005000	0	75.0	60.1	117	0.003585	4.47	50	50
Fluorene	0.00361	0.00010	0.005000	0	72.2	54.1	110	0.003820	5.65	50	50
Indeno(1,2,3-cd)pyrene	0.00421	0.00010	0.005000	0	84.2	58.1	123	0.003964	6.07	50	50
m,p-Cresol	0.00256	0.00010	0.005000	0	51.2	17.9	107	0.002630	2.70	50	50
Naphthalene	0.00317	0.00010	0.005000	0	63.4	36.3	97.1	0.003274	3.26	50	50
o-Cresol	0.00312	0.00010	0.005000	0	62.5	20.5	109	0.003211	2.78	50	50
Phenanthrene	0.00385	0.00010	0.005000	0	77.0	55.9	107	0.003710	3.73	50	50
Pyrene	0.00386	0.00010	0.005000	0	77.2	61.4	116	0.003715	3.83	50	50
Surr: 2-Fluorobiphenyl	0.00247		0.005000		49.4	41.9	97.9		0	50	50
Surr: 2-Fluorophenol	0.00412		0.01000		41.2	16.1	79.2		0	50	50
Surr: Nitrobenzene-d5	0.00296		0.005000		59.2	39.9	106		0	50	50
Surr: Phenol-d5	0.00255		0.01000		25.5	9.94	53.7		0	50	50
Surr: p-Terphenyl-d14	0.00398		0.005000		79.6	53	116		0	50	50

# ANALYTICAL QC SUMMARY REPORT

Test Number: **SW8270C**

Client: Philip Environmental  
 Project: A831-735002-012901-225/IP Champaign 62403053  
 Lab Order: 08050900 Report Date: 02-Jun-08

Sample ID: 08050900-015AMS	SampType: MS	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108701							
Client ID: VMW301MS	Batch ID: 45119	SW3510C	Analysis Date: 5/29/2008	SeqNo: 1962689							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00670	0.00010	0.01000	0.0007750	59.2	42.4	117				
Acenaphthylene	0.0158	0.00010	0.01000	0.009025	67.9	48.4	133				
Anthracene	0.00589	0.00010	0.01000	0	58.9	52.4	115				
Benzo(a)anthracene	0.00624	0.00010	0.01000	0	62.4	50.8	105				
Benzo(a)pyrene	0.00706	0.00010	0.01000	0	70.6	53.3	126				
Benzo(b)fluoranthene	0.00687	0.00010	0.01000	0	68.7	53.5	131				
Benzo(g,h,i)perylene	0.00738	0.00010	0.01000	0	73.9	54.6	127				
Benzo(k)fluoranthene	0.00693	0.00010	0.01000	0	69.3	56.2	128				
Bis(2-ethylhexyl)phthalate	0.00741	0.00200	0.01000	0	74.1	57.2	152				
Chrysene	0.00668	0.00010	0.01000	0	66.8	54.4	122				
Dibenzo(a,h)anthracene	0.00725	0.00010	0.01000	0	72.5	54.8	127				
Diethyl phthalate	0.00652	0.00100	0.01000	0	65.2	55.3	133				
Dimethyl phthalate	0.00660	0.00100	0.01000	0	66.0	55.7	112				
Di-n-butyl phthalate	0.00743	0.00100	0.01000	0.0005050	69.2	62.8	127				
Fluoranthene	0.00609	0.00010	0.01000	0	60.9	54.5	122				
Fluorene	0.00622	0.00010	0.01000	0	62.3	47.7	119				
Indeno(1,2,3-cd)pyrene	0.00719	0.00010	0.01000	0	71.9	53.2	125				
m,p-Cresol	0.00703	0.00010	0.01000	0.003117	39.2	17.9	107				
Naphthalene	0.00599	0.00010	0.01000	0.0007290	52.6	36.3	107				
o-Cresol	0.00511	0.00010	0.01000	0	51.1	20.5	109				
Phenanthrene	0.00637	0.00010	0.01000	0	63.7	51	112				
Pyrene	0.00636	0.00010	0.01000	0	63.6	55.9	121				
Surr: 2-Fluorobiphenyl	0.00564		0.01000		56.4	41.1	108				
Surr: 2-Fluorophenol	0.00646		0.02000		32.3	16.8	65.9				
Surr: Nitrobenzene-d5	0.00610		0.01000		61.0	37.6	105				
Surr: Phenol-d5	0.00402		0.02000		20.1	11	42.8				
Surr: p-Terphenyl-d14	0.00623		0.01000		62.3	49	113				



# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050900

Report Date: 02-Jun-08

Test Number: SW8270C

Sample ID: 08050900-015AMSD	SampType: MSD	Units: mg/L	Prep Date: 5/27/2008	RunNo: 108701							
Client ID: VMW301MSD	Batch ID: 45119	SW3510C	Analysis Date: 5/29/2008	SeqNo: 1962690							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00716	0.00010	0.01000	0.0007750	63.8	42.4	117	0.006699	6.62	50	
Acenaphthylene	0.0163	0.00010	0.01000	0.009025	72.4	48.4	133	0.01582	2.77	50	
Anthracene	0.00685	0.00010	0.01000	0	68.5	52.4	115	0.005886	15.2	50	
Benzo(a)anthracene	0.00695	0.00010	0.01000	0	69.5	50.8	105	0.006245	10.7	50	
Benzo(a)pyrene	0.00790	0.00010	0.01000	0	79.0	53.3	126	0.007064	11.2	50	
Benzo(b)fluoranthene	0.00756	0.00010	0.01000	0	75.6	53.5	131	0.006873	9.52	50	
Benzo(g,h,i)perylene	0.00837	0.00010	0.01000	0	83.7	54.6	127	0.007385	12.5	50	
Benzo(k)fluoranthene	0.00767	0.00010	0.01000	0	76.7	56.2	128	0.006926	10.2	50	
Bis(2-ethylhexyl)phthalate	0.0136	0.00200	0.01000	0	135.7	57.2	152	0.007413	58.7	50	R
Chrysene	0.00749	0.00010	0.01000	0	74.9	54.4	122	0.006682	11.4	50	
Dibenzo(a,h)anthracene	0.00818	0.00010	0.01000	0	81.8	54.8	127	0.007249	12.1	50	
Diethyl phthalate	0.00730	0.00100	0.01000	0	73.0	55.3	133	0.006517	11.4	0	
Dimethyl phthalate	0.00701	0.00100	0.01000	0	70.1	55.7	112	0.006600	6.07	0	
Di-n-butyl phthalate	0.00814	0.00100	0.01000	0.0005050	76.4	62.8	127	0.007426	9.21	50	
Fluoranthene	0.00678	0.00010	0.01000	0	67.8	54.5	122	0.006092	10.6	50	
Fluorene	0.00693	0.00010	0.01000	0	69.3	47.7	119	0.006225	10.7	50	
Indeno(1,2,3-cd)pyrene	0.00805	0.00010	0.01000	0	80.5	53.2	125	0.007189	11.3	50	
m,p-Cresol	0.00741	0.00010	0.01000	0.003117	42.9	17.9	107	0.007032	5.19	50	
Naphthalene	0.00620	0.00010	0.01000	0.0007290	54.7	36.3	107	0.005986	3.50	50	
o-Cresol	0.00539	0.00010	0.01000	0	53.9	20.5	109	0.005109	5.35	50	
Phenanthrene	0.00726	0.00010	0.01000	0	72.6	51	112	0.006372	13.0	50	
Pyrene	0.00722	0.00010	0.01000	0	72.3	55.9	121	0.006361	12.7	50	
Surr: 2-Fluorobiphenyl	0.00542		0.01000		54.2	41.1	108		0	50	
Surr: 2-Fluorophenol	0.00646		0.02000		32.3	16.8	65.9		0	50	
Surr: Nitrobenzene-d5	0.00628		0.01000		62.8	37.6	105		0	50	
Surr: Phenol-d5	0.00414		0.02000		20.7	11	42.8		0	50	
Surr: p-Terphenyl-d14	0.00675		0.01000		67.5	49	113		0	50	

# ANALYTICAL QC SUMMARY REPORT

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08050900

Report Date: 02-Jun-08

Test Number: SW9012A Aqueous (TCN)

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108747</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R108747</b>		Analysis Date: <b>5/29/2008</b>	SeqNo: <b>1963050</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.007	0.007									

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108747</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R108747</b>		Analysis Date: <b>5/29/2008</b>	SeqNo: <b>1963054</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.100	0.007	0.1000	0	99.9	85	115				

Sample ID: <b>LCSQC</b>	SampType: <b>LCSQC</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108747</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R108747</b>		Analysis Date: <b>5/29/2008</b>	SeqNo: <b>1963057</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.075	0.007	0.1000	0	75.3	62	111				

Sample ID: <b>08050900-015C MS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108747</b>							
Client ID: <b>VMW301MS</b>	Batch ID: <b>R108747</b>		Analysis Date: <b>5/29/2008</b>	SeqNo: <b>1963066</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.098	0.007	0.1000	0	97.9	75	125				

Sample ID: <b>08050900-015C MSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108747</b>							
Client ID: <b>VMW301MSD</b>	Batch ID: <b>R108747</b>		Analysis Date: <b>5/29/2008</b>	SeqNo: <b>1963067</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.098	0.007	0.1000	0	98.1	75	125	0.09792	0.153		15

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## RECEIVING CHECK LIST

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08050900

**Report Date:** 02-Jun-08

**Carrier:** John Linnemann

**Received By:** EKS

**Completed by:**

**On:**  
23-May-08

*A. Harris*

Amanda M. Harris

**Reviewed by:**

**On:**  
23-May-08

*Elizabeth A. Hurley*

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- |   |   |   |   |                                  |
|---|---|---|---|----------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>            | Temp °C 0.2                      |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>            | No <input type="checkbox"/>             | Not Present <input checked="" type="checkbox"/> |                                  |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/>             | Not Present <input checked="" type="checkbox"/> |                                  |
| Type of thermal preservation?                           | None <input type="checkbox"/>           | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/>               | Dry Ice <input type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Reported field parameters measured:                     | Field <input type="checkbox"/>          | Lab <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>          |                                  |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

- |  |   |  |   |
|--|---|--|---|
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt?    | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |   |

Any No responses must be detailed below or on the COC.

Additional sodium hydroxide was needed in VMW115, VMW114, VMW113, VMW107, VMW116, VMW106, VMW105, VMW121, VMW108, VMW302, VMW302D, VMW110, VMW301, VMW303, VMW303D, and VMW304 upon arrival at the laboratory.



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230  
(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

COC Serial No. **B** 09065

00000000

Project Name: AMERCO CAMPBELL PROJECT MGT: P. J. JAVIER  
Project Number: 62205053 Cost Code:  
Sampler(s): J. LIVERMAN, J. BIGNALL, S. CRAVENS

Laboratory Name: TEKLAD  
Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix			Total Number of Containers
			Soil	Water	Air	
TRIP BLANK	5/23/08	12:30	X			2
UMW 115	5/23/08	09:30	X			5
UMW 114		11:50	X			5
UMW 113		13:10	X			5
UMW 107		15:05	X			5
UMW 116		16:40	X			5
UMW 106	5/23/08	10:40	X			5
UMW 105		10:41	X			5
UMW 102		12:40	X			5
UMW 108		13:40	X			5
UMW 103		13:45	X			5
UMW 102 D		13:57	X			5

Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
TRIP BLANK		18050900-001
UMW 115		-002
UMW 114		-003
UMW 113		-004
UMW 107		-005
UMW 116		-006
UMW 106		-007
UMW 105		-008
UMW 102		-009
UMW 108		-010
UMW 103		-011
UMW 102 D		-012

Laboratory Temperature upon Receipt: 0.2  
we

**Samples Iced:**  Yes  No

Preservatives (ONLY for Water Samples)

- Volatile Organics
- Hydrochloric acid (HCl)
- VOC Soil (5035)
- Sodium Bisulfate/Methanol
- TPH
- Hydrochloric acid and/or Sulfuric acid (HNO<sub>3</sub>)
- Metals
- Nitric acid
- Cyanide
- Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: P. JAVIER

Send Invoice to: SAME

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** Signature: \_\_\_\_\_ Date: 5/23/08 Time: 12:00

**Received by:** Signature: \_\_\_\_\_ Date: 5/23/08 Time: 12:00



# Chain of Custody Record

210 West Sand Bank Road  
 P.O. Box 230  
 Columbia, IL 62236-0230

08050400

COC Serial No. **B** 09066

Project Name: AMEREN CHAMPAGNE Project Mgr.: D. INGRAM  
 Project Number: 6240 3053 Cost Code:  
 Sampler(s): J. LINNEMANN, J. HIGDON, S. CRANLEY

Name: TEKLAR  
 Location: Collinsville, IL

Laboratory Temperature upon Receipt: 0.2  
ve

Sample Number and (depth)	Date	Time	Matrix			Total Number of Containers	Analyses by Method Name and Number					Comments (Field PID)	Lab ID #'s
			Soil	Water	Air		Wipes	Other *	TRX 8100	TRX 8105	TOTAL CYANIDE		
VMW 110	5/21/08	15:55	X	X	X	5	X	X	X	X	X		08050400-013
VMW 117	5/21/08	16:45	X	X	X	5	X	X	X	X	X		-014
VMW 301	5/21/08	17:00	X	X	X	10	X	X	X	X	X	MS/MSD	-015
VMW 104	5/22/08	09:02	X	X	X	5	X	X	X	X	X		-016
VMW 102		09:45	X	X	X	5	X	X	X	X	X		-017
VMW 120		10:01	X	X	X	5	X	X	X	X	X		-018
VMW 119		11:11	X	X	X	5	X	X	X	X	X		-019
VMW 111A		11:50	X	X	X	5	X	X	X	X	X		-020
VMW 303		13:27	X	X	X	5	X	X	X	X	X		-021
VMW 303P		13:34	X	X	X	5	X	X	X	X	X		-022
VMW 304		14:38	X	X	X	5	X	X	X	X	X		-023
VMW 118		15:39	X	X	X	5	X	X	X	X	X		-024

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

Volatile Organics ..... Hydrochloric acid (HCl)

VOC Soil (5035) ..... Sodium Bisulfate/Methanol

TPH ..... Hydrochloric acid and/or Sulfuric acid

Metals ..... Nitric acid (HNO<sub>3</sub>)

Cyanide ..... Sodium hydroxide (NaOH)

Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  STD  Other

Fax and/or Mail Results to: D. INGRAM

Send Invoice to: SAME

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

**Received by:** \_\_\_\_\_ Date 5/22/08 Time 1200

Signature: [Signature]



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230  
(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

08050900

COC Serial No. **B** 09067

Project Name: AMERSEN CHAMPION Project Mgr.: D. ILLIKAN  
 Project Number: 62403053 Cost Code:  
 Sampler(s): J. LINNEMAN'S T. BIRNALL'S, CRABEWS  
 Laboratory Name: TEKLAB  
 Location: Collinsville, IL

Sample Number and (depth)	Date	Time	Matrix			Total Number of Containers	Analyses by Method Name and Number	Comments (Field PID)	Lab ID #'s
			Soil	Water	Air				
VMW 109	5/23/08	15:40	X			5	BTEX 8260 TPH 8270 51ms CHLORINATED HYDROCARBONS 6000 + 7000 SERIES	08050900-025	
VMW 300	5/23/08	08:00	X			5		-024	
Added NaOH to all samples except:									
								VMW117	VMW104, VMW102, VMW120,
								VMW119	VMW111A, VMW118, VMW109, ?
								VMW300	TLH/BMP 5/23/08

Laboratory Temperature upon Receipt  
0.2 °C

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**  
 Requested TAT:  Rush  5 Days  STD  Other  
 Fax and/or Mail Results to: D. ILLIKAN  
 Send Invoice to: SAME  
 QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other  
 Special Guidelines:  
 Reporting Limits:  
 \* Special:

**Shipping:**  
 Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:**  
 Signature: [Signature] Date: 5/23/08 Time: 12:00

**Received by:**  
 Signature: [Signature] Date: 5/23/08 Time: 12:00

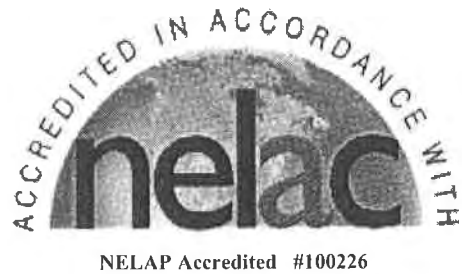
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

June 04, 2008

John Linnemann  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** Ameren Champaign

**WorkOrder:** 08051056

Dear John Linnemann:

TEKLAB, INC received 1 sample on 5/29/2008 3:35:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20



---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** Ameren Champaign

**Lab Order:** 08051056

**Report Date:** 04-Jun-08

## SAMPLE SUMMARY

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Lab Sample ID	Client Sample ID	Fractions	Collection Date
08051056-001	Waste Water	5	5/29/2008 1:30:00 PM

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

**Project:** Ameren Champaign

**LabOrder:** 08051056

**Report Date:** 04-Jun-08

## CASE NARRATIVE

**Cooler Receipt Temp:** 13.0 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

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## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08051056

**Lab ID:** 08051056-001

**Report Date:** 04-Jun-08

**Client Project:** Ameren Champaign

**Client Sample ID:** Waste Water

**Collection Date:** 5/29/2008 1:30:00 PM

**Matrix:** WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>EPA 600 410.4</b>								
Chemical Oxygen Demand	NELAP	50		617	mg/L	1	6/2/2008	BSJ
<b>STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED</b>								
Lab pH	NELAP	1.00		12.3		1	5/30/2008 12:28:00 PM	LMK
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>								
Arsenic	NELAP	0.0250		0.0686	mg/L	1	5/30/2008 5:38:23 PM	LAL
Barium	NELAP	0.0050		0.248	mg/L	1	5/30/2008 5:38:23 PM	LAL
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	5/30/2008 5:38:23 PM	LAL
Chromium	NELAP	0.0100		0.112	mg/L	1	5/30/2008 5:38:23 PM	LAL
Lead	NELAP	0.0400		0.0885	mg/L	1	5/30/2008 5:38:23 PM	LAL
Selenium	NELAP	0.0500		< 0.0500	mg/L	1	5/30/2008 5:38:23 PM	LAL
Silver	NELAP	0.0100		< 0.0100	mg/L	1	5/30/2008 5:38:23 PM	LAL
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Acenaphthene	NELAP	0.00010		0.00124	mg/L	1	5/30/2008 10:32:00 PM	TDN
Acenaphthylene	NELAP	0.00010		0.00096	mg/L	1	5/30/2008 10:32:00 PM	TDN
Anthracene	NELAP	0.00010		0.00032	mg/L	1	5/30/2008 10:32:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		0.00017	mg/L	1	5/30/2008 10:32:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		0.00395	mg/L	1	5/30/2008 10:32:00 PM	TDN
Chrysene	NELAP	0.00010		0.00012	mg/L	1	5/30/2008 10:32:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
Fluoranthene	NELAP	0.00010		0.00044	mg/L	1	5/30/2008 10:32:00 PM	TDN
Fluorene	NELAP	0.00010		0.00083	mg/L	1	5/30/2008 10:32:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	5/30/2008 10:32:00 PM	TDN
m,p-Cresol	NELAP	0.00010		0.00090	mg/L	1	5/30/2008 10:32:00 PM	TDN
Naphthalene	NELAP	0.00010		0.0110	mg/L	1	5/30/2008 10:32:00 PM	TDN
o-Cresol	NELAP	0.00010		0.00021	mg/L	1	5/30/2008 10:32:00 PM	TDN
Phenanthrene	NELAP	0.00010		0.00202	mg/L	1	5/30/2008 10:32:00 PM	TDN
Pyrene	NELAP	0.00010		0.00055	mg/L	1	5/30/2008 10:32:00 PM	TDN
Total PNAs except Naphthalene		0.00013		0.00665	mg/L	1	5/30/2008 10:32:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		66.6	%REC	1	5/30/2008 10:32:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		34.0	%REC	1	5/30/2008 10:32:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		65.0	%REC	1	5/30/2008 10:32:00 PM	TDN

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

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## LABORATORY RESULTS

**Client:** Philip Environmental

**WorkOrder:** 08051056

**Lab ID:** 08051056-001

**Report Date:** 04-Jun-08

**Client Project:** Ameren Champaign

**Client Sample ID:** Waste Water

**Collection Date:** 5/29/2008 1:30:00 PM

**Matrix:** WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Surr: Phenol-d5		11-42.8		21.8	%REC	1	5/30/2008 10:32:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		50.2	%REC	1	5/30/2008 10:32:00 PM	TDN
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Benzene	NELAP	2.0		5.2	µg/L	1	6/2/2008 3:55:00 PM	CCF
Ethylbenzene	NELAP	5.0	J	2.1	µg/L	1	6/2/2008 3:55:00 PM	CCF
Toluene	NELAP	5.0	J	1.4	µg/L	1	6/2/2008 3:55:00 PM	CCF
Xylenes, Total	NELAP	5.0	J	2.8	µg/L	1	6/2/2008 3:55:00 PM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		103.2	%REC	1	6/2/2008 3:55:00 PM	CCF
Surr: 4-Bromofluorobenzene		86-119		100.4	%REC	1	6/2/2008 3:55:00 PM	CCF
Surr: Dibromofluoromethane		81.7-123		102.3	%REC	1	6/2/2008 3:55:00 PM	CCF
Surr: Toluene-d8		84.3-114		98.1	%REC	1	6/2/2008 3:55:00 PM	CCF
<b>SW-846 7470A (TOTAL)</b>								
Mercury	NELAP	0.00020	J	0.00010	mg/L	1	6/3/2008	MEK

**Sample Narrative**

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental  
**Project:** Ameren Champaign  
**Lab Order:** 08051056  
**Report Date:** 04-Jun-08

## DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08051056-001A	Waste Water	5/29/2008	Waste Water	SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	5/29/2008	5/30/2008
08051056-001B				Standard Method 18th Ed. 4500-H B, Laboratory Analyzed		5/30/2008
08051056-001C				SW-846 3005A, 6010B, Metals by ICP (Total)	5/29/2008	5/30/2008
				SW-846 7470A (Total)	6/2/2008	6/3/2008
08051056-001D				EPA 600 410.4		6/2/2008
08051056-001E				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	5/31/2008	5/31/2008
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	6/2/2008	6/2/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level
	<b>C</b> - Client requested RL below PQL
	<b>D</b> - Diluted out of sample
	<b>IDPH</b> - IL Dept. of Public Health
	<b>Q</b> - QC criteria failed
	<b>#</b> - Unknown hydrocarbon
	<b>MI</b> - Matrix interference
	<b>DNI</b> - Did not ignite
	<b>E</b> - Value above quantitation range
	<b>H</b> - Holding time exceeded
	<b>NELAP</b> - IL ELAP and NELAP Accredited

**Client:** Philip Environmental  
**Project:** Ameren Champaign  
**Lab Order:** 08051056

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** L\_COD\_E\_AT

**Report Date:** 04-Jun-08

Sample ID: <b>MB-R108844</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108844</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R108844</b>		Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1965187</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	< 0	0									

Sample ID: <b>LCS-R108844</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108844</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R108844</b>		Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1965188</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	209	50	200.0	0	104.6	76	115				

Sample ID: <b>08051056-001DMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108844</b>							
Client ID: <b>Waste WaterMS</b>	Batch ID: <b>R108844</b>		Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1965202</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	1610	100	1000	617.0	99.6	85	115				

Sample ID: <b>08051056-001DMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>108844</b>							
Client ID: <b>Waste WaterMSD</b>	Batch ID: <b>R108844</b>		Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1965203</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	1600	100	1000	617.0	98.7	85	115	1613	0.572	10	

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

Report Date: 04-Jun-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_PH\_M\_AT\_NF

Sample ID: LCS-R108819	SampType: LCS	Units:	Prep Date:	RunNo: 108819							
Client ID: ZZZZZZ	Batch ID: R108819		Analysis Date: 5/30/2008	SeqNo: 1964861							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lab pH	7.01	1.00	7.000	0	100.1	99.1	100.9				
Sample ID: 08051056-001BDUP	SampType: DUP	Units:	Prep Date:	RunNo: 108819							
Client ID: Waste WaterDUP	Batch ID: R108819		Analysis Date: 5/30/2008	SeqNo: 1964864							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lab pH	12.3	1.00						12.29	0.325		10

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_AQ\_ICP\_ST

Report Date: 04-Jun-08

Sample ID: MB-45208	SampType: MBLK	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108738							
Client ID: ZZZZZZ	Batch ID: 45208	SOP 3034	Analysis Date: 5/30/2008	SeqNo: 1964137							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.0250	0.0250	0.02500	0	0	-100	100				
Barium	< 0.0050	0.0050	0.005000	0	0	-100	100				
Cadmium	< 0.0020	0.0020	0.002000	0	0	-100	100				
Chromium	< 0.0100	0.0100	0.010000	0	0	-100	100				
Lead	< 0.0400	0.0400	0.040000	0	0	-100	100				
Selenium	< 0.0500	0.0500	0.050000	0	0	-100	100				
Silver	0.0035	0.0100	0.010000	0	35.0	-100	100				J

Sample ID: LCS-45208	SampType: LCS	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108738							
Client ID: ZZZZZZ	Batch ID: 45208	SOP 3034	Analysis Date: 5/30/2008	SeqNo: 1964140							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.06	0.0250	2.000	0	103.0	85	115				
Barium	2.04	0.0050	2.000	0	102.2	85	115				
Cadmium	0.0512	0.0020	0.05000	0	102.4	85	115				
Chromium	0.199	0.0100	0.2000	0	99.5	85	115				
Lead	0.510	0.0400	0.5000	0	102.0	85	115				
Selenium	1.98	0.0500	2.000	0	99.1	85	115				
Silver	0.0496	0.0100	0.05000	0	99.2	85	115				

Sample ID: 08051056-001CMS	SampType: MS	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108738							
Client ID: Waste WaterMS	Batch ID: 45208	SOP 3034	Analysis Date: 5/30/2008	SeqNo: 1964147							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.08	0.0250	2.000	0.06860	100.5	75	125				
Barium	2.06	0.0050	2.000	0.2483	90.5	75	125				
Cadmium	0.0452	0.0020	0.05000	0	90.4	75	125				
Chromium	0.303	0.0100	0.2000	0.1124	95.5	75	125				
Lead	0.537	0.0400	0.5000	0.08850	89.7	75	125				
Selenium	2.00	0.0500	2.000	0	100	75	125				



Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_AQ\_ICP\_ST

Report Date: 04-Jun-08

Sample ID: 08051056-001CMS	SampType: MS	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108738							
Client ID: Waste WaterMS	Batch ID: 45208	SOP 3034	Analysis Date: 5/30/2008	SeqNo: 1964147							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0455	0.0100	0.05000	0	91.0	75	125				

Sample ID: 08051056-001CMSD	SampType: MSD	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108738							
Client ID: Waste WaterMSD	Batch ID: 45208	SOP 3034	Analysis Date: 5/30/2008	SeqNo: 1964148							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	2.04	0.0250	2.000	0.06860	98.8	75	125	2.079	1.65	20
Barium	2.05	0.0050	2.000	0.2483	90.1	75	125	2.058	0.389	20
Cadmium	0.0444	0.0020	0.05000	0	88.8	75	125	0.04520	1.79	20
Chromium	0.303	0.0100	0.2000	0.1124	95.2	75	125	0.3034	0.198	20
Lead	0.532	0.0400	0.5000	0.08850	88.8	75	125	0.5372	0.916	20
Selenium	1.96	0.0500	2.000	0	98.0	75	125	2.000	2.07	20
Silver	0.0465	0.0100	0.05000	0	93.0	75	125	0.04550	2.17	20

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_HG\_AQ\_S

Report Date: 04-Jun-08

Sample ID: MB-45255	SampType: MBLK	Units: mg/L	Prep Date: 6/2/2008	RunNo: 108882
Client ID: ZZZZZZ	Batch ID: 45255	SOP 3062	Analysis Date: 6/3/2008	SeqNo: 1966065
Analyte	Result	PQL	SPK value	SPK Ref Val
Mercury	< 0.00020	0.00020	0.0002000	0
		%REC	LowLimit	HighLimit
		0	-100	100
		%RPD	RPDLimit	Qual

Sample ID: LCS-45255	SampType: LCS	Units: mg/L	Prep Date: 6/2/2008	RunNo: 108882
Client ID: ZZZZZZ	Batch ID: 45255	SOP 3062	Analysis Date: 6/3/2008	SeqNo: 1966066
Analyte	Result	PQL	SPK value	SPK Ref Val
Mercury	0.00513	0.00020	0.005000	0
		%REC	LowLimit	HighLimit
		102.6	85	115
		%RPD	RPDLimit	Qual

Sample ID: 08051056-001CMS	SampType: MS	Units: mg/L	Prep Date: 6/2/2008	RunNo: 108882
Client ID: Waste WaterMS	Batch ID: 45255	SOP 3062	Analysis Date: 6/3/2008	SeqNo: 1966074
Analyte	Result	PQL	SPK value	SPK Ref Val
Mercury	0.00478	0.00020	0.005000	0.0001000
		%REC	LowLimit	HighLimit
		93.6	75	125
		%RPD	RPDLimit	Qual

Sample ID: 08051056-001CMSD	SampType: MSD	Units: mg/L	Prep Date: 6/2/2008	RunNo: 108882
Client ID: Waste WaterMSD	Batch ID: 45255	SOP 3062	Analysis Date: 6/3/2008	SeqNo: 1966075
Analyte	Result	PQL	SPK value	SPK Ref Val
Mercury	0.00521	0.00020	0.005000	0.0001000
		%REC	LowLimit	HighLimit
		102.2	75	125
		%RPD	RPDLimit	Qual
		8.61	0.004780	15

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_W\_SIMS

Report Date: 04-Jun-08

Sample ID: MB-45188	SampType: MBLK	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108701							
Client ID: ZZZZZZ	Batch ID: 45188	SW3510C	Analysis Date: 5/29/2008	SeqNo: 1962685							
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	0.00347		0.005000		69.4	45.7	108				
Surr: Nitrobenzene-d5	0.00340		0.005000		68.0	39.4	112				
Surr: p-Terphenyl-d14	0.00370		0.005000		74.0	58.6	130				

Sample ID: LCS-45188	SampType: LCS	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108701							
Client ID: ZZZZZZ	Batch ID: 45188	SW3510C	Analysis Date: 5/29/2008	SeqNo: 1962686							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.00342	0.00010	0.005000	0	68.4	50.1	103				
Acenaphthylene	0.00451	0.00010	0.005000	0	90.2	53.3	122				
Anthracene	0.00369	0.00010	0.005000	0	73.9	57.4	110				
Benzo(a)anthracene	0.00361	0.00010	0.005000	0	72.2	56	102				
Benzo(a)pyrene	0.00398	0.00010	0.005000	0	79.6	55.4	125				
Benzo(b)fluoranthene	0.00391	0.00010	0.005000	0	78.1	59.3	127				

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_W\_SIMS

Report Date: 04-Jun-08

Sample ID: LCS-45188	SampType: LCS	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108701
Client ID: ZZZZZZ	Batch ID: 45188	SW3510C	Analysis Date: 5/29/2008	SeqNo: 1962686

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	0.00416	0.00010	0.005000	0	83.1	58.4	125				
Benzo(k)fluoranthene	0.00395	0.00010	0.005000	0	78.9	61.5	125				
Chrysene	0.00389	0.00010	0.005000	0	77.8	58.7	118				
Dibenzo(a,h)anthracene	0.00413	0.00010	0.005000	0	82.7	59.3	126				
Fluoranthene	0.00355	0.00010	0.005000	0	71.0	60.1	117				
Fluorene	0.00369	0.00010	0.005000	0	73.8	54.1	110				
Indeno(1,2,3-cd)pyrene	0.00408	0.00010	0.005000	0	81.6	58.1	123				
Naphthalene	0.00282	0.00010	0.005000	0	56.3	36.3	97.1				
Phenanthrene	0.00372	0.00010	0.005000	0	74.3	55.9	107				
Pyrene	0.00372	0.00010	0.005000	0	74.4	61.4	116				
Surr: 2-Fluorobiphenyl	0.00336		0.005000		67.2	41.9	97.9				
Surr: Nitrobenzene-d5	0.00344		0.005000		68.8	39.9	106				
Surr: p-Terphenyl-d14	0.00373		0.005000		74.6	53	116				

Sample ID: LCS-45188	SampType: LCS	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108701
Client ID: ZZZZZZ	Batch ID: 45188	SW3510C	Analysis Date: 5/29/2008	SeqNo: 1962687

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00331	0.00010	0.005000	0	66.2	50.1	103	0.003420	3.30	50	
Acenaphthylene	0.00441	0.00010	0.005000	0	88.3	53.3	122	0.004509	2.13	50	
Anthracene	0.00358	0.00010	0.005000	0	71.7	57.4	110	0.003693	3.00	50	
Benzo(a)anthracene	0.00342	0.00010	0.005000	0	68.3	56	102	0.003610	5.49	50	
Benzo(a)pyrene	0.00378	0.00010	0.005000	0	75.6	55.4	125	0.003981	5.15	50	
Benzo(b)fluoranthene	0.00369	0.00010	0.005000	0	73.8	59.3	127	0.003906	5.71	50	
Benzo(g,h,i)perylene	0.00396	0.00010	0.005000	0	79.3	58.4	125	0.004157	4.75	50	
Benzo(k)fluoranthene	0.00372	0.00010	0.005000	0	74.5	61.5	125	0.003947	5.81	50	
Chrysene	0.00372	0.00010	0.005000	0	74.4	58.7	118	0.003888	4.42	50	
Dibenzo(a,h)anthracene	0.00389	0.00010	0.005000	0	77.9	59.3	126	0.004133	5.98	50	
Fluoranthene	0.00345	0.00010	0.005000	0	68.9	60.1	117	0.003549	2.97	50	
Fluorene	0.00358	0.00010	0.005000	0	71.7	54.1	110	0.003689	2.89	50	
Indeno(1,2,3-cd)pyrene	0.00386	0.00010	0.005000	0	77.2	58.1	123	0.004080	5.52	50	

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

Report Date: 04-Jun-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_W\_SIMS

Sample ID: LCSD-45188	SampType: LCSD	Units: mg/L	Prep Date: 5/29/2008	RunNo: 108701							
Client ID: ZZZZZZ	Batch ID: 45188	SW3510C	Analysis Date: 5/29/2008	SeqNo: 1962687							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.00290	0.00010	0.005000	0	57.9	36.3	97.1	0.002816	2.80	50	
Phenanthrene	0.00361	0.00010	0.005000	0	72.2	55.9	107	0.003716	2.89	50	
Pyrene	0.00348	0.00010	0.005000	0	69.7	61.4	116	0.003718	6.47	50	
Surr: 2-Fluorobiphenyl	0.00311		0.005000		62.2	41.9	97.9		0	50	
Surr: Nitrobenzene-d5	0.00365		0.005000		73.0	39.9	106		0	50	
Surr: p-Terphenyl-d14	0.00341		0.005000		68.2	53	116		0	50	

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_W

Report Date: 04-Jun-08

Sample ID: LCS-T080530-2    SampType: LCS    Units: µg/L    Prep Date: 5/31/2008    RunNo: 108826  
 Client ID: ZZZZZZ    Batch ID: 45261    SW5030    Analysis Date: 5/31/2008    SeqNo: 1964915

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	57.6	2.0	50.00	0	115.2	82.7	117				
Toluene	51.4	5.0	50.00	0	102.9	79.6	116				
Ethylbenzene	55.7	5.0	50.00	0	111.4	83	113				
Xylenes, Total	110	5.0	100.0	0	110.2	80.3	120				
Surr: 1,2-Dichloroethane-d4	40.9		50.00		81.9	74.7	129				
Surr: 4-Bromofluorobenzene	48.0		50.00		96.0	86	119				
Surr: Dibromofluoromethane	46.6		50.00		93.1	81.7	123				
Surr: Toluene-d8	46.1		50.00		92.2	84.3	114				

Sample ID: LCS-D-T080530-2    SampType: LCS-D    Units: µg/L    Prep Date: 5/31/2008    RunNo: 108826  
 Client ID: ZZZZZZ    Batch ID: 45261    SW5030    Analysis Date: 5/31/2008    SeqNo: 1964916

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	55.0	2.0	50.00	0	110.0	82.7	117	57.58	4.58	20	
Toluene	49.3	5.0	50.00	0	98.7	79.6	116	51.45	4.19	20	
Ethylbenzene	52.6	5.0	50.00	0	105.2	83	113	55.68	5.65	20	
Xylenes, Total	105	5.0	100.0	0	105.4	80.3	120	110.2	4.43	0	
Surr: 1,2-Dichloroethane-d4	40.2		50.00		80.3	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	46.1		50.00		92.2	86	119		0	0	
Surr: Dibromofluoromethane	46.2		50.00		92.5	81.7	123		0	0	
Surr: Toluene-d8	45.6		50.00		91.3	84.3	114		0	0	

Sample ID: MBLK-T080530-2    SampType: MBLK    Units: µg/L    Prep Date: 5/31/2008    RunNo: 108826  
 Client ID: ZZZZZZ    Batch ID: 45261    SW5030    Analysis Date: 5/31/2008    SeqNo: 1964917

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									

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_W

Report Date: 04-Jun-08

Sample ID: <b>MBLK-T080530-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>5/31/2008</b>	RunNo: <b>108826</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45261</b>	<b>SW5030</b>	Analysis Date: <b>5/31/2008</b>	SeqNo: <b>1964917</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	38.8		50.00		77.6	74.7	129				
Surr: 4-Bromofluorobenzene	46.7		50.00		93.3	86	119				
Surr: Dibromofluoromethane	45.2		50.00		90.4	81.7	123				
Surr: Toluene-d8	46.8		50.00		93.6	84.3	114				

Sample ID: <b>LCS-N080602-1</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/2/2008</b>	RunNo: <b>108841</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45266</b>	<b>SW5030</b>	Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1965149</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.8	2.0	50.00	0	95.7	82.7	117				
Toluene	46.8	5.0	50.00	0	93.6	79.6	116				
Ethylbenzene	47.8	5.0	50.00	0	95.6	83	113				
Xylenes, Total	94.6	5.0	100.0	0	94.6	80.3	120				
Surr: 1,2-Dichloroethane-d4	50.0		50.00		99.9	74.7	129				
Surr: 4-Bromofluorobenzene	50.6		50.00		101.2	86	119				
Surr: Dibromofluoromethane	50.2		50.00		100.3	81.7	123				
Surr: Toluene-d8	50.1		50.00		100.1	84.3	114				

Sample ID: <b>LCS-D-N080602-1</b>	SampType: <b>LCS-D</b>	Units: <b>µg/L</b>	Prep Date: <b>6/2/2008</b>	RunNo: <b>108841</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45266</b>	<b>SW5030</b>	Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1965150</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.5	2.0	50.00	0	91.0	82.7	117	47.84	5.04	20	
Toluene	45.6	5.0	50.00	0	91.2	79.6	116	46.79	2.58	20	
Ethylbenzene	45.7	5.0	50.00	0	91.5	83	113	47.80	4.43	20	
Xylenes, Total	90.6	5.0	100.0	0	90.6	80.3	120	94.56	4.24	0	
Surr: 1,2-Dichloroethane-d4	48.1		50.00		96.1	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	51.0		50.00		101.9	86	119		0	0	
Surr: Dibromofluoromethane	50.5		50.00		101.0	81.7	123		0	0	
Surr: Toluene-d8	50.1		50.00		100.3	84.3	114		0	0	

Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

Report Date: 04-Jun-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_W

Sample ID: <b>MBLK-N080602-1</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/2/2008</b>	RunNo: <b>108841</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>45266</b>	<b>SW5030</b>	Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1965151</b>

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	51.7		50.00		103.4	74.7	129				
Surr: 4-Bromofluorobenzene	52.7		50.00		105.3	86	119				
Surr: Dibromofluoromethane	51.2		50.00		102.3	81.7	123				
Surr: Toluene-d8	49.9		50.00		99.9	84.3	114				

Sample ID: <b>08051056-001EMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/2/2008</b>	RunNo: <b>108841</b>
Client ID: <b>Waste WaterMS</b>	Batch ID: <b>45266</b>	<b>SW5030</b>	Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1966353</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.9	2.0	44.00	5.160	81.3	57.8	125				
Toluene	38.1	5.0	44.00	1.450	83.3	75.8	123				
Ethylbenzene	38.7	5.0	44.00	2.080	83.3	72.8	123				
Xylenes, Total	71.4	5.0	88.00	2.780	78.0	73	127				
Surr: 1,2-Dichloroethane-d4	51.6		50.00		103.2	74.7	129				
Surr: 4-Bromofluorobenzene	50.7		50.00		101.5	86	119				
Surr: Dibromofluoromethane	51.4		50.00		102.9	81.7	123				
Surr: Toluene-d8	49.5		50.00		98.9	84.3	114				

Sample ID: <b>08051056-001EMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>6/2/2008</b>	RunNo: <b>108841</b>
Client ID: <b>Waste WaterMSD</b>	Batch ID: <b>45266</b>	<b>SW5030</b>	Analysis Date: <b>6/2/2008</b>	SeqNo: <b>1966354</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.5	2.0	44.00	5.160	78.1	57.8	125	40.92	3.46	20	
Toluene	39.5	5.0	44.00	1.450	86.4	75.8	123	38.09	3.53	20	
Ethylbenzene	40.1	5.0	44.00	2.080	86.3	72.8	123	38.72	3.40	20	
Xylenes, Total	77.7	5.0	88.00	2.780	85.1	73	127	71.44	8.37	20	



Client: Philip Environmental  
 Project: Ameren Champaign  
 Lab Order: 08051056

Report Date: 04-Jun-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_W

Sample ID: 08051056-001EMSD    SampType: MSD    RunNo: 108841  
 Client ID: Waste WaterMSD    Batch ID: 45266    SeqNo: 1966354  
 Units: µg/L    Prep Date: 6/2/2008  
 SW5030    Analysis Date: 6/2/2008

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	50.4		50.00		100.8	74.7	129		0	0	0
Surr: 4-Bromofluorobenzene	50.3		50.00		100.6	86	119		0	0	0
Surr: Dibromofluoromethane	50.3		50.00		100.5	81.7	123		0	0	0
Surr: Toluene-d8	50.4		50.00		100.9	84.3	114		0	0	0

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**Project:** Ameren Champaign**Lab Order:** 08051056**Report Date:** 04-Jun-08

## RECEIVING CHECK LIST

Carrier: John Linnemann

Received By: BMP

Completed by:

On:

29-May-08

Erin Clarke

Reviewed by:

On:

30-May-08

Marvin L. Darling

Pages to follow:

Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 13.0
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input checked="" type="checkbox"/>	NA <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>				
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		

Any No responses must be detailed below or on the COC.

Additional nitric acid was needed upon arrival at the laboratory. EDC 5/29/08



# Chain of Custody Record

210 West Sand Bank Road (618) 281-7173 Phone  
P.O. Box 230 (800) 733-7173  
Columbia, IL 62236-0230 (618) 281-5120 Fax

COC Serial No. **B** 09001

08051056

Project Name: ARMED CHAMPAGNE Project Mgr.: J. LINDEMANN

Project Number: \_\_\_\_\_ Cost Code: \_\_\_\_\_

Sampler(s): JOHN LINDEMANN

Laboratory Name: TEXCAP

Location: Collinsville

Sample Number and (depth) \_\_\_\_\_ Date 5/29/08 Time 13:30

Analyses by Method Name and Number	Total Number of Containers		
	Soil	Water	Wipes
BTEX	X	X	X
VAP	X	X	X
5 IMS	X	X	X
KCRA Metals	X	X	X
COD	X	X	X
HA	X	X	X

Comments (Field PID): Lab 20C Added HNO3 ahead

Lab ID #'s: 08051056-001

Laboratory Temperature upon Receipt: 13.0 BMP

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

**Lab Directives:**

Requested TAT:  Rush  5 Days  Other

Fax and/or Mail Results to: J. Lindemann @ POC NOW, COM

Send Invoice to: same

QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other

Special Guidelines: \_\_\_\_\_

Reporting Limits: \_\_\_\_\_

\* Special: \_\_\_\_\_

**Shipping:**

Carrier / Airbill No. \_\_\_\_\_

**Relinquished by:** \_\_\_\_\_ Signature \_\_\_\_\_ Date 5/29/08 Time 15:35

**Received by:** \_\_\_\_\_ Signature Buane Kigott Date 5/29/08 Time 15:35

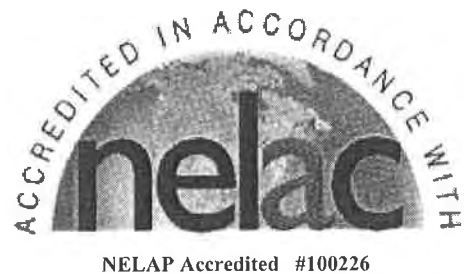
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

July 03, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08060975

Dear Derek Ingram:

TEKLAB, INC received 1 sample on 6/27/2008 3:20:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20

---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08060975

**Report Date:** 03-Jul-08

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Lab Sample ID	Client Sample ID	Fractions	Collection Date
08060975-001	WW-2	3	6/27/2008 7:45:00 AM

---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08060975

**Report Date:** 03-Jul-08

**Cooler Receipt Temp:** 10.4 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
 FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08060975  
**Lab ID:** 08060975-001  
**Report Date:** 03-Jul-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** WW-2  
**Collection Date:** 6/27/2008 7:45:00 AM  
**Matrix:** WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA 600 350.1 R2.0 (TOTAL)</u></b>								
Nitrogen, Ammonia (as N)	NELAP	0.10		1.43	mg/L	1	6/30/2008 11:59:57 AM	BED
<b><u>EPA 600 351.2 R2.0 (TOTAL)</u></b>								
Total Kjeldahl Nitrogen (as N)	NELAP	0.29		2.86	mg/L	1	7/2/2008 10:52:29 AM	BED
<b><u>STANDARD METHOD 18TH ED. 4500-II B, LABORATORY ANALYZED</u></b>								
Lab pH	NELAP	1.00		12.1		1	6/27/2008 5:49:00 PM	LMK
<b><u>STANDARD METHODS 18TH ED. 5210 B</u></b>								
Biochemical Oxygen Demand	NELAP	5	E	101	mg/L	1	6/27/2008 6:10:00 PM	TWM

**Sample Narrative**

Standard Methods 18th Ed. 5210 B

Results are estimated, biased high.

Laboratory control sample did not recover within QC limits.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**DATES REPORT****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08060975**Report Date:** 03-Jul-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08060975-001A	WW-2	6/27/2008	Waste Water	Standard Methods 18th Ed. 5210 B	6/27/2008	6/27/2008
08060975-001B				EPA 600 350.1 R2.0 (Total)		6/30/2008
				EPA 600 351.2 R2.0 (Total)		7/2/2008
08060975-001C				Standard Method 18th Ed. 4500-H B, Laboratory Analyzed		6/27/2008



**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

		Qualifiers	
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: A\_NH3\_E\_AT\_350.1R2

Lab Order: 08060975

Report Date: 03-Jul-08

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>110026</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R110026</b>		Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1989410</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (as N)	< 0.10	0.10									

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>110026</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R110026</b>		Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1989412</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (as N)	2.45	0.10	2.500	0	98.1	90	110				

Sample ID: <b>08060975-001B MS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>110026</b>							
Client ID: <b>WW-2MS</b>	Batch ID: <b>R110026</b>		Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1989438</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (as N)	3.37	0.10	2.000	1.432	96.8	85	115				

Sample ID: <b>08060975-001B MSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>110026</b>							
Client ID: <b>WW-2MSD</b>	Batch ID: <b>R110026</b>		Analysis Date: <b>6/30/2008</b>	SeqNo: <b>1989439</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia (as N)	3.32	0.10	2.000	1.432	94.5	85	115	3.367	1.35		10

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060975

Report Date: 03-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: A\_TKN\_E\_AT\_351.2R2

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>110101</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R110101</b>		Analysis Date: <b>7/2/2008</b>	SeqNo: <b>1991281</b>
Analyte	Result	PQL	SPK value	SPK Ref Val
	< 0.21	0.21		
			%REC	LowLimit
			HighLimit	RPD Ref Val
			%RPD	RPDLimit
				Qual

Total Kjeldahl Nitrogen (as N)

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>110101</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R110101</b>		Analysis Date: <b>7/2/2008</b>	SeqNo: <b>1991282</b>
Analyte	Result	PQL	SPK value	SPK Ref Val
	9.72	0.21	10.00	0
			%REC	LowLimit
			HighLimit	RPD Ref Val
			%RPD	RPDLimit
				Qual

Total Kjeldahl Nitrogen (as N)

Sample ID: <b>08060975-001B MS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>110101</b>
Client ID: <b>WW-2MS</b>	Batch ID: <b>R110101</b>		Analysis Date: <b>7/2/2008</b>	SeqNo: <b>1991284</b>
Analyte	Result	PQL	SPK value	SPK Ref Val
	16.6	0.29	13.60	2.857
			%REC	LowLimit
			HighLimit	RPD Ref Val
			%RPD	RPDLimit
				Qual

Total Kjeldahl Nitrogen (as N)

Sample ID: <b>08060975-001B MSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>110101</b>
Client ID: <b>WW-2MSD</b>	Batch ID: <b>R110101</b>		Analysis Date: <b>7/2/2008</b>	SeqNo: <b>1991285</b>
Analyte	Result	PQL	SPK value	SPK Ref Val
	16.4	0.29	13.60	2.857
			%REC	LowLimit
			HighLimit	RPD Ref Val
			%RPD	RPDLimit
				Qual

Total Kjeldahl Nitrogen (as N)

16.61 1.29 15

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060975

Report Date: 03-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_BOD\_M\_AT

Sample ID: LCS-45947	SampType: LCS	Units: mg/L	Prep Date: 6/27/2008	RunNo: 110095							
Client ID: ZZZZZZ	Batch ID: 45947	SOP 2030	Analysis Date: 6/27/2008	SeqNo: 1991192							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	303	5	198.0	0	153.0	84.6	115.4				SE

Sample ID: 08060975-001A-DUP	SampType: DUP	Units: mg/L	Prep Date: 6/27/2008	RunNo: 110095							
Client ID: WW-2DUP	Batch ID: 45947	SOP 2030	Analysis Date: 6/27/2008	SeqNo: 1991197							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	102	5						101.0	0.985	40	E

Sample ID: LCSQC-45947	SampType: LCSQC	Units: mg/L	Prep Date: 6/27/2008	RunNo: 110095							
Client ID: ZZZZZZ	Batch ID: 45947	SOP 2030	Analysis Date: 6/27/2008	SeqNo: 1991200							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	40	5	29.30	0	136.5	70	129				SE

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060975

Report Date: 03-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: LPH\_M\_AT\_NF

Sample ID: LCS-R109951	SampType: LCS	Units:	Prep Date:	RunNo: 109951							
Client ID: ZZZZZZ	Batch ID: R109951		Analysis Date: 6/27/2008	SeqNo: 1988202							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lab pH	6.99	1.00	7.000	0	99.9	99.1	100.9				

Sample ID: LCS-R109951	SampType: LCS	Units:	Prep Date:	RunNo: 109951							
Client ID: ZZZZZZ	Batch ID: R109951		Analysis Date: 6/27/2008	SeqNo: 1988631							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lab pH	7.00	1.00	7.000	0	100	99.1	100.9				

Sample ID: 08060975-001CDUP	SampType: DUP	Units:	Prep Date:	RunNo: 109951							
Client ID: WW-2DUP	Batch ID: R109951		Analysis Date: 6/27/2008	SeqNo: 1988633							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lab pH	12.1	1.00						12.12	0.165		10

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental**RECEIVING CHECK LIST****Project:** A831-735002-012901-225/IP Champaign 62403053**Lab Order:** 08060975**Report Date:** 03-Jul-08

Carrier: Rachael Husan

Received By: EC

Completed by:

On:

27-Jun-08

Erin Clarke

Reviewed by:

On:

28-Jun-08

Elizabeth A. Hurley

Pages to follow: Chain of custody Extra pages included 

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 10.4
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>	
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input checked="" type="checkbox"/>	NA <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Any No responses must be detailed below or on the COC.



# Chain of Custody Record

210 West Sand Bank Road (618) 281-7173 Phone  
P.O. Box 230 (800) 733-7173  
Columbia, IL 62236-0230 (618) 281-5120 Fax

08060975

COC Serial No. **B** 08890

Project Name: Amenon IP Campaign Project Mgr.: Derek Ingram

Project Number: 00243053 Cost Code: 024501

Sampler(s): R. Huser

Laboratory Name: Tek Lab

Location: Collinsville, IL

Sample Number and (depth) Date Time

1st water analysis WW-2 6/27 0745

Matrix

Soil

Water

Air

Wipes

Other \*

Analyses by Method Name and Number

Ammenon	X
Total Nitrogen	X
pH	X
5 day BOD	X

Laboratory Temperature upon Receipt  
10.4iced

Pres. v EDC

Comments (Field PID)

Derek J. Ingram, proceed w/  
TKN. EDC 6/30/08

Lab ID #'s

08060975  
001

### Samples Iced:

Yes  No

### Preservatives (ONLY for Water Samples)

- Volatile Organics
- Hydrochloric acid (HCl)
- VOC Soil (5035)
- Sodium Bisulfate/Methanol
- TPH
- Hydrochloric acid and/or Sulfuric acid
- Metals
- Nitric acid (HNO<sub>3</sub>)
- Cyanide
- Sodium hydroxide (NaOH)
- Other (Specify)

### Lab Directives:

- Requested TAT:  Rush  5 Days  ATD  Other
- Fax and/or Mail Results to: D. Ingram
- Send Invoice to: \_\_\_\_\_
- QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other
- Special Guidelines: \_\_\_\_\_
- Reporting Limits: \_\_\_\_\_
- \* Special: \_\_\_\_\_

### Shipping:

Carrier / Airbill No. \_\_\_\_\_

### Relinquished by:

Signature: Rachael Huser Date: 6/27/08 1520 Time: \_\_\_\_\_

### Received by:

Signature: Derek J. Ingram Date: 6/27/08 1520 Time: \_\_\_\_\_

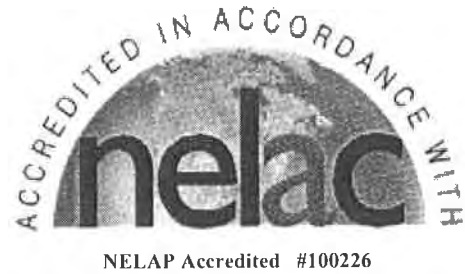
ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

July 16, 2008

Derek Ingram  
Philip Environmental  
210 West Sand Bank Road  
Columbia, IL 62236-0230  
TEL: (618) 281-7173  
FAX: (618) 281-5120



**RE:** A831-735002-012901-225/IP Champaign 62403053

**WorkOrder:** 08070355

Dear Derek Ingram:

TEKLAB, INC received 3 samples on 7/10/2008 5:17:00 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 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. White*

Heather A. White  
Project Manager  
(618)344-1004 ex.20



---

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## SAMPLE SUMMARY

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08070355

**Report Date:** 16-Jul-08

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Lab Sample ID	Client Sample ID	Fractions	Collection Date
08070355-001	UMW 305	4	7/10/2008 11:16:00 AM
08070355-002	UMW 306	4	7/10/2008 12:11:00 PM
08070355-003	UMW 307	4	7/10/2008 12:57:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## CASE NARRATIVE

**Project:** A831-735002-012901-225/IP Champaign 62403053

**LabOrder:** 08070355

**Report Date:** 16-Jul-08

**Cooler Receipt Temp:** 9.2 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count ( > 200 CFU )	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>MI</b> - Matrix interference
<b>Q</b> - QC criteria failed or noncompliant CCV	<b>#</b> - Unknown hydrocarbon	<b>DNI</b> - Did not ignite
<b>NELAP</b> - IL ELAP and NELAP Accredited Field of Testing	<b>IDPH</b> - IL Dept. of Public Health	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08070355

Client Sample ID: UMW 305

Lab ID: 08070355-001

Collection Date: 7/10/2008 11:16:00 AM

Report Date: 16-Jul-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>SW-846 9012A (TOTAL) MODIFIED</u></b>								
Cyanide		0.007		< 0.007	mg/L	1	7/15/2008 1:45:49 PM	BED
<b><u>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</u></b>								
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/2008 9:48:37 AM	CRK
<b><u>SW-846 3020A, METALS BY GFAA (TOTAL)</u></b>								
Arsenic 7060A	NELAP	0.0030	J	0.0016	mg/L	1	7/14/2008 10:18:36 AM	JMW
Lead 7421	NELAP	0.0020		< 0.0020	mg/L	1	7/15/2008 1:43:20 PM	JMW
<b><u>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Chrysene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Dimethyl phthalate	NELAP	0.00100	J	0.00062	mg/L	1	7/11/2008 5:13:00 PM	TDN
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Fluorene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Naphthalene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
o-Cresol	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Phenanthrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	7/11/2008 5:13:00 PM	TDN
Surr: 2-Fluorobiphenyl		41.1-108		82.0	%REC	1	7/11/2008 5:13:00 PM	TDN
Surr: 2-Fluorophenol		16.8-65.9		55.5	%REC	1	7/11/2008 5:13:00 PM	TDN
Surr: Nitrobenzene-d5		37.6-105		76.2	%REC	1	7/11/2008 5:13:00 PM	TDN
Surr: Phenol-d5		11-42.8		35.6	%REC	1	7/11/2008 5:13:00 PM	TDN
Surr: p-Terphenyl-d14		49-113		79.4	%REC	1	7/11/2008 5:13:00 PM	TDN
<b><u>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Benzene	NELAP	2.0		ND	µg/L	1	7/11/2008 6:58:00 AM	TAL
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/11/2008 6:58:00 AM	TAL

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

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## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08070355**Lab ID:** 08070355-001**Report Date:** 16-Jul-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** UMW 305**Collection Date:** 7/10/2008 11:16:00 AM**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	7/11/2008 6:58:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/11/2008 6:58:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		109.1	%REC	1	7/11/2008 6:58:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		102.0	%REC	1	7/11/2008 6:58:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		105.5	%REC	1	7/11/2008 6:58:00 AM	TAL
Surr: Toluene-d8		84.3-114		94.7	%REC	1	7/11/2008 6:58:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

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## LABORATORY RESULTS

Client: Philip Environmental

WorkOrder: 08070355

Lab ID: 08070355-002

Report Date: 16-Jul-08

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: UMW 306

Collection Date: 7/10/2008 12:11:00 PM

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
<b>SW-846 9012A (TOTAL) MODIFIED</b>									
Cyanide		0.007		0.010	mg/L	1	7/15/2008 1:54:49 PM	BED	
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/2008 9:50:19 AM	CRK	
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>									
Arsenic	7060A	NELAP	0.0030	J	0.0018	mg/L	1	7/14/2008 10:35:34 AM	JMW
Lead	7421	NELAP	0.0020		< 0.0020	mg/L	1	7/14/2008 11:08:16 AM	JMW
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Acenaphthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Chrysene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Fluorene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Naphthalene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
o-Cresol	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Phenanthrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	7/11/2008 6:24:00 PM	TDN	
Surr: 2-Fluorobiphenyl		41.1-108		79.8	%REC	1	7/11/2008 6:24:00 PM	TDN	
Surr: 2-Fluorophenol		16.8-65.9		53.0	%REC	1	7/11/2008 6:24:00 PM	TDN	
Surr: Nitrobenzene-d5		37.6-105		74.6	%REC	1	7/11/2008 6:24:00 PM	TDN	
Surr: Phenol-d5		11-42.8		34.3	%REC	1	7/11/2008 6:24:00 PM	TDN	
Surr: p-Terphenyl-d14		49-113		76.2	%REC	1	7/11/2008 6:24:00 PM	TDN	
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Benzene	NELAP	2.0		ND	µg/L	1	7/11/2008 7:29:00 AM	TAL	
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/11/2008 7:29:00 AM	TAL	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

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## LABORATORY RESULTS

**Client:** Philip Environmental**WorkOrder:** 08070355**Lab ID:** 08070355-002**Report Date:** 16-Jul-08**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** UMW 306**Collection Date:** 7/10/2008 12:11:00 PM**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	7/11/2008 7:29:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/11/2008 7:29:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		109.0	%REC	1	7/11/2008 7:29:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		100.6	%REC	1	7/11/2008 7:29:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		104.4	%REC	1	7/11/2008 7:29:00 AM	TAL
Surr: Toluene-d8		84.3-114		94.6	%REC	1	7/11/2008 7:29:00 AM	TAL

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

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## LABORATORY RESULTS

Client: Philip Environmental

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08070355

Client Sample ID: UMW 307

Lab ID: 08070355-003

Collection Date: 7/10/2008 12:57:00 PM

Report Date: 16-Jul-08

Matrix: GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst	
<b>SW-846 9012A (TOTAL) MODIFIED</b>									
Cyanide		0.007		0.016	mg/L	1	7/15/2008 1:59:06 PM	BED	
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	7/14/2008 9:55:27 AM	CRK	
<b>SW-846 3020A, METALS BY GFAA (TOTAL)</b>									
Arsenic	7060A	NELAP	0.0030	J	0.0030	mg/L	1	7/14/2008 10:38:58 AM	JMW
Lead	7421	NELAP	0.0020	J	0.0011	mg/L	1	7/14/2008 12:32:54 PM	JMW
<b>SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Acenaphthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Acenaphthylene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Benzo(a)anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Benzo(a)pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Benzo(b)fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Benzo(g,h,i)perylene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Benzo(k)fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Chrysene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Dibenzo(a,h)anthracene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Diethyl phthalate	NELAP	0.00100		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Dimethyl phthalate	NELAP	0.00100		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Di-n-butyl phthalate	NELAP	0.00100		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Fluoranthene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Fluorene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Indeno(1,2,3-cd)pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
m,p-Cresol	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Naphthalene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
o-Cresol	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Phenanthrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Pyrene	NELAP	0.00010		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Total PNAs except Naphthalene		0.00013		ND	mg/L	1	7/11/2008 7:00:00 PM	TDN	
Surr: 2-Fluorobiphenyl		41.1-108		77.8	%REC	1	7/11/2008 7:00:00 PM	TDN	
Surr: 2-Fluorophenol		16.8-65.9		53.8	%REC	1	7/11/2008 7:00:00 PM	TDN	
Surr: Nitrobenzene-d5		37.6-105		74.2	%REC	1	7/11/2008 7:00:00 PM	TDN	
Surr: Phenol-d5		11-42.8		34.6	%REC	1	7/11/2008 7:00:00 PM	TDN	
Surr: p-Terphenyl-d14		49-113		67.4	%REC	1	7/11/2008 7:00:00 PM	TDN	
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>									
Benzene	NELAP	2.0		ND	µg/L	1	7/11/2008 7:59:00 AM	TAL	
Ethylbenzene	NELAP	5.0		ND	µg/L	1	7/11/2008 7:59:00 AM	TAL	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Philip Environmental  
**WorkOrder:** 08070355  
**Lab ID:** 08070355-003  
**Report Date:** 16-Jul-08

**Client Project:** A831-735002-012901-225/IP Champ  
**Client Sample ID:** UMW 307  
**Collection Date:** 7/10/2008 12:57:00 PM  
**Matrix:** GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Toluene	NELAP	5.0		ND	µg/L	1	7/11/2008 7:59:00 AM	TAL
Xylenes, Total	NELAP	5.0		ND	µg/L	1	7/11/2008 7:59:00 AM	TAL
Surr: 1,2-Dichloroethane-d4		74.7-129		109.3	%REC	1	7/11/2008 7:59:00 AM	TAL
Surr: 4-Bromofluorobenzene		86-119		99.8	%REC	1	7/11/2008 7:59:00 AM	TAL
Surr: Dibromofluoromethane		81.7-123		105.4	%REC	1	7/11/2008 7:59:00 AM	TAL
Surr: Toluene-d8		84.3-114		95.6	%REC	1	7/11/2008 7:59:00 AM	TAL

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## DATES REPORT

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08070355

**Report Date:** 16-Jul-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08070355-001A	UMW 305	7/10/2008	Groundwater	SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	7/10/2008	7/11/2008
				SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	7/10/2008	7/11/2008
08070355-001B				SW-846 3005A, 6010B, Metals by ICP (Total)	7/11/2008	7/14/2008
				SW-846 3020A, Metals by GFAA (Total)	7/11/2008	7/14/2008
				SW-846 3020A, Metals by GFAA (Total)	7/11/2008	7/14/2008
				SW-846 3020A, Metals by GFAA (Total)	7/11/2008	7/15/2008
08070355-001C				SW-846 9012A (Total) Modified		7/15/2008
08070355-001D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	7/10/2008	7/11/2008
08070355-002A	UMW 306			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	7/10/2008	7/11/2008
08070355-002B				SW-846 3005A, 6010B, Metals by ICP (Total)	7/11/2008	7/14/2008
				SW-846 3020A, Metals by GFAA (Total)	7/11/2008	7/14/2008
				SW-846 3020A, Metals by GFAA (Total)	7/11/2008	7/14/2008
08070355-002C				SW-846 9012A (Total) Modified		7/15/2008
08070355-002D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	7/10/2008	7/11/2008
08070355-003A	UMW 307			SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	7/10/2008	7/11/2008
				SW-846 3510C, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	7/10/2008	7/11/2008
08070355-003B				SW-846 3005A, 6010B, Metals by ICP (Total)	7/11/2008	7/14/2008
				SW-846 3020A, Metals by GFAA (Total)	7/11/2008	7/14/2008
				SW-846 3020A, Metals by GFAA (Total)	7/11/2008	7/14/2008
08070355-003C				SW-846 9012A (Total) Modified		7/15/2008
08070355-003D				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	7/10/2008	7/11/2008

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

	Qualifiers
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level
	<b>C</b> - Client requested RL below PQL
	<b>D</b> - Diluted out of sample
	<b>IDPH</b> - IL Dept. of Public Health
	<b>Q</b> - QC criteria failed
	<b>#</b> - Unknown hydrocarbon
	<b>MI</b> - Matrix interference
	<b>DNI</b> - Did not ignite
	<b>E</b> - Value above quantitation range
	<b>H</b> - Holding time exceeded
	<b>NELAP</b> - IL ELAP and NELAP Accredited

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: A\_TCN\_S\_AT\_9012A

Lab Order: 08070355

Report Date: 16-Jul-08

Sample ID: MBLK	SampType: MBLK	Units: mg/L	Prep Date:	RunNo: 110617							
Client ID: ZZZZZZ	Batch ID: R110617		Analysis Date: 7/15/2008	SeqNo: 2003744							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.007	0.007									

Sample ID: LCS	SampType: LCS	Units: mg/L	Prep Date:	RunNo: 110617							
Client ID: ZZZZZZ	Batch ID: R110617		Analysis Date: 7/15/2008	SeqNo: 2003746							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.100	0.007	0.1000	0	99.8	85	115				

Sample ID: LCSQC	SampType: LCSQC	Units: mg/L	Prep Date:	RunNo: 110617							
Client ID: ZZZZZZ	Batch ID: R110617		Analysis Date: 7/15/2008	SeqNo: 2003747							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.084	0.007	0.1000	0	83.8	62	111				

Sample ID: 08070355-003C MS	SampType: MS	Units: mg/L	Prep Date:	RunNo: 110617							
Client ID: UMW 307MS	Batch ID: R110617		Analysis Date: 7/15/2008	SeqNo: 2003760							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.116	0.007	0.1000	0.01615	99.9	75	125				

Sample ID: 08070355-003C MSD	SampType: MSD	Units: mg/L	Prep Date:	RunNo: 110617							
Client ID: UMW 307MSD	Batch ID: R110617		Analysis Date: 7/15/2008	SeqNo: 2003761							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.115	0.007	0.1000	0.01615	98.5	75	125	0.1161	1.27	15	

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08070355

Report Date: 16-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_AQ\_GF\_ST

Sample ID: MB-46153	SampType: MBLK	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110497							
Client ID: ZZZZZZ	Batch ID: 46153	SOP 3044	Analysis Date: 7/14/2008	SeqNo: 2000167							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.0030	0.0030	0.003000	0	0	-100	100				

Sample ID: LCS-46153	SampType: LCS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110497							
Client ID: ZZZZZZ	Batch ID: 46153	SOP 3044	Analysis Date: 7/14/2008	SeqNo: 2000168							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0136	0.0030	0.01500	0	90.6	80	120				

Sample ID: 08070355-001BMS	SampType: MS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110497							
Client ID: UMW 305MS	Batch ID: 46153	SOP 3044	Analysis Date: 7/14/2008	SeqNo: 2000170							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0166	0.0030	0.01500	0.001647	100	70	130				

Sample ID: 08070355-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110497							
Client ID: UMW 305MSD	Batch ID: 46153	SOP 3044	Analysis Date: 7/14/2008	SeqNo: 2000171							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0168	0.0030	0.01500	0.001647	101.3	70	130	0.01665	1.13	20	

Sample ID: MB-46153	SampType: MBLK	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110530							
Client ID: ZZZZZZ	Batch ID: 46153	SOP 3044	Analysis Date: 7/14/2008	SeqNo: 2001052							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	< 0.0020	0.0020	0.002000	0	0	-100	100				

Sample ID: LCS-46153	SampType: LCS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110530							
Client ID: ZZZZZZ	Batch ID: 46153	SOP 3044	Analysis Date: 7/14/2008	SeqNo: 2001054							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08070355

Report Date: 16-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_AQ\_GF\_ST

Sample ID: LCS-46153	SampType: LCS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110530							
Client ID: ZZZZZZ	Batch ID: 46153	SOP 3044	Analysis Date: 7/14/2008	SeqNo: 2001054							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0151	0.0020	0.01500	0	100.9	80	120				

Sample ID: 08070355-001BMS	SampType: MS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110586							
Client ID: UMW 305MS	Batch ID: 46153	SOP 3044	Analysis Date: 7/15/2008	SeqNo: 2002954							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0170	0.0020	0.01500	0	113.1	70	130				

Sample ID: 08070355-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110586							
Client ID: UMW 305MSD	Batch ID: 46153	SOP 3044	Analysis Date: 7/15/2008	SeqNo: 2002955							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0189	0.0020	0.01500	0	125.8	70	130	0.01696	10.6	20	

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08070355

Report Date: 16-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_AQ\_ICP\_ST

Sample ID: MB-46158	SampType: MBLK	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110486							
Client ID: ZZZZZZ	Batch ID: 46158	SOP 3034	Analysis Date: 7/14/2008	SeqNo: 1999839							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 0.0100	0.0100	0.01000	0	0	-100	100				

Sample ID: LCS-46158	SampType: LCS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110486							
Client ID: ZZZZZZ	Batch ID: 46158	SOP 3034	Analysis Date: 7/14/2008	SeqNo: 1999840							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.203	0.0100	0.2000	0	101.4	85	115				

Sample ID: 08070355-002BMS	SampType: MS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110486							
Client ID: UMW 306MS	Batch ID: 46158	SOP 3034	Analysis Date: 7/14/2008	SeqNo: 1999845							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.191	0.0100	0.2000	0	95.7	75	125				

Sample ID: 08070355-002BMSD	SampType: MSD	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110486							
Client ID: UMW 306MSD	Batch ID: 46158	SOP 3034	Analysis Date: 7/14/2008	SeqNo: 1999846							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.194	0.0100	0.2000	0	97.0	75	125	0.1913	1.45	20	

Sample ID: MB-46158	SampType: MBLK	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110481							
Client ID: ZZZZZZ	Batch ID: 46158	SOP 3034	Analysis Date: 7/14/2008	SeqNo: 2000840							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 0.0100	0.0100	0.01000	0	0	-100	100				

Sample ID: LCS-46158	SampType: LCS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110481							
Client ID: ZZZZZZ	Batch ID: 46158	SOP 3034	Analysis Date: 7/14/2008	SeqNo: 2000841							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	< 0.0100	0.0100	0.01000	0	0	-100	100				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08070355

Report Date: 16-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_AQ\_ICP\_ST

Sample ID: LCS-46158	SampType: LCS	Units: mg/L	Prep Date: 7/11/2008	RunNo: 110481							
Client ID: ZZZZZZ	Batch ID: 46158	SOP 3034	Analysis Date: 7/14/2008	SeqNo: 2000841							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.201	0.0100	0.2000	0	100.5	85	115				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08070355

Report Date: 16-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_W\_SIMS

Sample ID: MB-46138	SampType: MBLK	Units: mg/L	Prep Date: 7/10/2008	RunNo: 110475							
Client ID: ZZZZZZ	Batch ID: 46138	SW3510C	Analysis Date: 7/11/2008	SeqNo: 1999590							
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									
Bis(2-ethylhexyl)phthalate	ND	0.00200									
Chrysene	ND	0.00010									
Dibenzo(a,h)anthracene	ND	0.00010									
Diethyl phthalate	ND	0.00100									
Dimethyl phthalate	ND	0.00100									
Di-n-butyl phthalate	ND	0.00100									
Fluoranthene	ND	0.00010									
Fluorene	ND	0.00010									
Indeno(1,2,3-cd)pyrene	ND	0.00010									
m,p-Cresol	ND	0.00010									
Naphthalene	ND	0.00010									
o-Cresol	ND	0.00010									
Phenanthrene	ND	0.00010									
Pyrene	ND	0.00010									
Total PNAs except Naphthalene	ND	0.00013									
Surr: 2-Fluorobiphenyl	0.00428		0.005000		85.6	41.9	97.9				
Surr: 2-Fluorophenol	0.00532		0.01000		53.2	16.1	79.2				
Surr: Nitrobenzene-d5	0.00406		0.005000		81.2	39.9	106				
Surr: Phenol-d5	0.00305		0.01000		30.5	9.94	53.7				
Surr: p-Terphenyl-d14	0.00443		0.005000		88.6	53	116				



Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08070355

Report Date: 16-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_W\_SIMS

Sample ID: LCS-46138	SampType: LCS	Units: mg/L	Prep Date: 7/10/2008	RunNo: 110475							
Client ID: ZZZZZZ	Batch ID: 46138	SW3510C	Analysis Date: 7/11/2008	SeqNo: 1999591							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00377	0.00010	0.005000	0	75.5	50.1	103				
Acenaphthylene	0.00485	0.00010	0.005000	0	96.9	53.3	122				
Anthracene	0.00420	0.00010	0.005000	0	84.0	57.4	110				
Benzo(a)anthracene	0.00387	0.00010	0.005000	0	77.5	56	102				
Benzo(a)pyrene	0.00432	0.00010	0.005000	0	86.4	55.4	125				
Benzo(b)fluoranthene	0.00423	0.00010	0.005000	0	84.5	59.3	127				
Benzo(g,h,i)perylene	0.00409	0.00010	0.005000	0	81.9	58.4	125				
Benzo(k)fluoranthene	0.00427	0.00010	0.005000	0	85.3	61.5	125				
Bis(2-ethylhexyl)phthalate	0.00445	0.00200	0.005000	0	89.0	63.2	152				
Chrysene	0.00425	0.00010	0.005000	0	85.0	58.7	118				
Dibenzo(a,h)anthracene	0.00412	0.00010	0.005000	0	82.4	59.3	126				
Diethyl phthalate	0.00446	0.00100	0.005000	0	89.3	55.3	133				
Dimethyl phthalate	0.00449	0.00100	0.005000	0	89.8	55.7	112				
Di-n-butyl phthalate	0.00483	0.00100	0.005000	0	96.6	61.5	130				
Fluoranthene	0.00417	0.00010	0.005000	0	83.3	60.1	117				
Fluorene	0.00392	0.00010	0.005000	0	78.5	54.1	110				
Indeno(1,2,3-cd)pyrene	0.00411	0.00010	0.005000	0	82.3	58.1	123				
m,p-Cresol	0.00261	0.00010	0.005000	0	52.2	17.9	107				
Naphthalene	0.00338	0.00010	0.005000	0	67.6	36.3	97.1				
o-Cresol	0.00318	0.00010	0.005000	0	63.7	20.5	109				
Phenanthrene	0.00392	0.00010	0.005000	0	78.5	55.9	107				
Pyrene	0.00426	0.00010	0.005000	0	85.2	61.4	116				
Surr: 2-Fluorobiphenyl	0.00438		0.005000		87.6	41.9	97.9				
Surr: 2-Fluorophenol	0.00507		0.01000		50.7	16.1	79.2				
Surr: Nitrobenzene-d5	0.00392		0.005000		78.4	39.9	106				
Surr: Phenol-d5	0.00310		0.01000		31.0	9.94	53.7				
Surr: p-Terphenyl-d14	0.00430		0.005000		86.0	53	116				

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08070355

Report Date: 16-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_W\_SIMS

Sample ID: LCSD-46138      Samp Type: LCSD      Units: mg/L      Prep Date: 7/10/2008      RunNo: 110475

Client ID: ZZZZZZ      Batch ID: 46138      SW3510C      Analysis Date: 7/11/2008      SeqNo: 1999592

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00397	0.00010	0.005000	0	79.4	50.1	103	0.003774	5.11	50	50
Acenaphthylene	0.00529	0.00010	0.005000	0	105.8	53.3	122	0.004845	8.80	50	50
Anthracene	0.00436	0.00010	0.005000	0	87.3	57.4	110	0.004202	3.81	50	50
Benzo(a)anthracene	0.00386	0.00010	0.005000	0	77.1	56	102	0.003873	0.414	50	50
Benzo(a)pyrene	0.00442	0.00010	0.005000	0	88.4	55.4	125	0.004318	2.36	50	50
Benzo(b)fluoranthene	0.00432	0.00010	0.005000	0	86.4	59.3	127	0.004226	2.22	50	50
Benzo(g,h,i)perylene	0.00422	0.00010	0.005000	0	84.4	58.4	125	0.004093	3.10	50	50
Benzo(k)fluoranthene	0.00439	0.00010	0.005000	0	87.8	61.5	125	0.004266	2.91	50	50
Bis(2-ethylhexyl)phthalate	0.00460	0.00200	0.005000	0	92.0	63.2	152	0.004450	3.36	50	50
Chrysene	0.00435	0.00010	0.005000	0	87.0	58.7	118	0.004250	2.28	50	50
Dibenzo(a,h)anthracene	0.00423	0.00010	0.005000	0	84.6	59.3	126	0.004122	2.63	50	50
Diethyl phthalate	0.00475	0.00100	0.005000	0	95.1	55.3	133	0.004465	6.27	0	0
Dimethyl phthalate	0.00442	0.00100	0.005000	0	88.5	55.7	112	0.004492	1.55	0	0
Di-n-butyl phthalate	0.00508	0.00100	0.005000	0	101.5	61.5	130	0.004831	4.97	50	50
Fluoranthene	0.00422	0.00010	0.005000	0	84.4	60.1	117	0.004166	1.26	50	50
Fluorene	0.00427	0.00010	0.005000	0	85.5	54.1	110	0.003924	8.52	50	50
Indeno(1,2,3-cd)pyrene	0.00424	0.00010	0.005000	0	84.8	58.1	123	0.004114	3.06	50	50
m,p-Cresol	0.00261	0.00010	0.005000	0	52.2	17.9	107	0.002610	0	50	50
Naphthalene	0.00348	0.00010	0.005000	0	69.5	36.3	97.1	0.003378	2.89	50	50
o-Cresol	0.00323	0.00010	0.005000	0	64.6	20.5	109	0.003183	1.53	50	50
Phenanthrene	0.00430	0.00010	0.005000	0	86.1	55.9	107	0.003924	9.24	50	50
Pyrene	0.00439	0.00010	0.005000	0	87.7	61.4	116	0.004261	2.89	50	50
Surr: 2-Fluorobiphenyl	0.00428		0.005000		85.6	41.9	97.9		0	50	50
Surr: 2-Fluorophenol	0.00509		0.01000		50.9	16.1	79.2		0	50	50
Surr: Nitrobenzene-d5	0.00406		0.005000		81.2	39.9	106		0	50	50
Surr: Phenol-d5	0.00307		0.01000		30.7	9.94	53.7		0	50	50
Surr: p-Terphenyl-d14	0.00452		0.005000		90.4	53	116		0	50	50

Client: Philip Environmental

# ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: V\_BTEX\_W

Lab Order: 08070355

Report Date: 16-Jul-08

Sample ID: <b>LCS-R080710-2</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>7/10/2008</b>	RunNo: <b>110452</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>46163</b>	<b>SW5030</b>	Analysis Date: <b>7/11/2008</b>	SeqNo: <b>1998976</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.3	2.0	50.00	0	104.7	82.7	117				
Toluene	48.3	5.0	50.00	0	96.6	79.6	116				
Ethylbenzene	47.9	5.0	50.00	0	95.7	83	113				
Xylenes, Total	95.7	5.0	100.0	0	95.7	80.3	120				
Surr: 1,2-Dichloroethane-d4	53.5		50.00		107.1	74.7	129				
Surr: 4-Bromofluorobenzene	49.6		50.00		99.1	86	119				
Surr: Dibromofluoromethane	52.3		50.00		104.6	81.7	123				
Surr: Toluene-d8	47.1		50.00		94.2	84.3	114				

Sample ID: <b>LCS-D-R080710-2</b>	SampType: <b>LCS-D</b>	Units: <b>µg/L</b>	Prep Date: <b>7/10/2008</b>	RunNo: <b>110452</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>46163</b>	<b>SW5030</b>	Analysis Date: <b>7/11/2008</b>	SeqNo: <b>1998977</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.8	2.0	50.00	0	101.6	82.7	117	52.33	3.01	20	
Toluene	46.5	5.0	50.00	0	93.0	79.6	116	48.28	3.78	20	
Ethylbenzene	46.1	5.0	50.00	0	92.1	83	113	47.87	3.83	20	
Xylenes, Total	93.3	5.0	100.0	0	93.3	80.3	120	95.68	2.56	0	
Surr: 1,2-Dichloroethane-d4	54.0		50.00		107.9	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	50.0		50.00		100	86	119		0	0	
Surr: Dibromofluoromethane	52.2		50.00		104.5	81.7	123		0	0	
Surr: Toluene-d8	47.2		50.00		94.5	84.3	114		0	0	

Sample ID: <b>MBLK-R080710-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>7/10/2008</b>	RunNo: <b>110452</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>46163</b>	<b>SW5030</b>	Analysis Date: <b>7/11/2008</b>	SeqNo: <b>1998978</b>

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									

Client: Philip Environmental

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08070355

Report Date: 16-Jul-08

# ANALYTICAL QC SUMMARY REPORT

TestCode: V\_BTEX\_W

Sample ID: <b>MBLK-R080710-2</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>7/10/2008</b>	RunNo: <b>110452</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>46163</b>	<b>SW5030</b>	Analysis Date: <b>7/11/2008</b>	SeqNo: <b>1998978</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	53.6		50.00		107.2	74.7	129				
Surr: 4-Bromofluorobenzene	50.3		50.00		100.7	86	119				
Surr: Dibromofluoromethane	52.8		50.00		105.7	81.7	123				
Surr: Toluene-d8	47.5		50.00		95.1	84.3	114				

Sample ID: <b>08070355-003DMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>7/10/2008</b>	RunNo: <b>110452</b>
Client ID: <b>UMW 307MS</b>	Batch ID: <b>46163</b>	<b>SW5030</b>	Analysis Date: <b>7/11/2008</b>	SeqNo: <b>1998986</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.8	2.0	55.00	0	79.6	57.8	125				
Toluene	47.6	5.0	55.00	0	86.5	75.8	123				
Ethylbenzene	48.6	5.0	55.00	0	88.3	72.8	123				
Xylenes, Total	95.8	5.0	110.0	0	87.1	73	127				
Surr: 1,2-Dichloroethane-d4	54.5		50.00		109.1	74.7	129				
Surr: 4-Bromofluorobenzene	51.1		50.00		102.2	86	119				
Surr: Dibromofluoromethane	51.9		50.00		103.9	81.7	123				
Surr: Toluene-d8	47.2		50.00		94.5	84.3	114				

Sample ID: <b>08070355-003DMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>7/10/2008</b>	RunNo: <b>110452</b>
Client ID: <b>UMW 307MSD</b>	Batch ID: <b>46163</b>	<b>SW5030</b>	Analysis Date: <b>7/11/2008</b>	SeqNo: <b>1998987</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	44.3	2.0	55.00	0	80.5	57.8	125	43.78	1.18	20	
Toluene	47.4	5.0	55.00	0	86.3	75.8	123	47.56	0.232	20	
Ethylbenzene	49.1	5.0	55.00	0	89.2	72.8	123	48.58	1.02	20	
Xylenes, Total	96.1	5.0	110.0	0	87.3	73	127	95.85	0.240	20	
Surr: 1,2-Dichloroethane-d4	54.0		50.00		108.1	74.7	129		0	0	
Surr: 4-Bromofluorobenzene	50.9		50.00		101.8	86	119		0	0	
Surr: Dibromofluoromethane	52.2		50.00		104.4	81.7	123		0	0	
Surr: Toluene-d8	46.8		50.00		93.6	84.3	114		0	0	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Philip Environmental

## RECEIVING CHECK LIST

**Project:** A831-735002-012901-225/IP Champaign 62403053

**Lab Order:** 08070355

**Report Date:** 16-Jul-08

**Carrier:** Rachel Husen

**Received By:** MLD

**Completed by:**

*Marvin L. Darling II*

**Reviewed by:**

*Elizabeth A. Hurley*

**On:**

10-Jul-08

Marvin L. Darling

**On:**

11-Jul-08

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- |   |   |   |   |                                  |
|---|---|---|---|----------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>            | Temp °C 9.2                      |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>            | No <input type="checkbox"/>             | Not Present <input checked="" type="checkbox"/> |                                  |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/>             | Not Present <input checked="" type="checkbox"/> |                                  |
| Type of thermal preservation?                           | None <input type="checkbox"/>           | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/>               | Dry Ice <input type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |
| Reported field parameters measured:                     | Field <input type="checkbox"/>          | Lab <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>          |                                  |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |   |                                  |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

- |  |   |  |   |
|--|---|--|---|
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt?    | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |   |

Any No responses must be detailed below or on the COC.

Additional nitric acid was needed in UMW 307 upon arrival at the laboratory. MLDII 7/10/08



# Chain of Custody Record

210 West Sand Bank Road  
P.O. Box 230  
Columbia, IL 62236-0230

(618) 281-7173 Phone  
(800) 733-7173  
(618) 281-5120 Fax

COC Serial No. **B** 08888

08070355

Project Name: **Amgen IP Champaign Project Mgr.: Derek Enggram**

Project Number: **62403053** Cost Code: **024501**

Sampler(s): **R. Wilson**

Laboratory Name: **TRELAB**

Location: **Collinsville, IL**

Sample Number and (depth) Date Time

UMW 305 7/10 1116

UMW 306 7/10 1211

UMW 307 7/10 1257

Total Number of Containers

Matrix  
Soil  
Water  
Air  
Wipes  
Other \*

5

5

5

Analyses by Method Name and Number

BTEX method 8260  
PMT method 8270  
Total Cyanide method 9010  
Chromic Lead  
Arsenic method 7000

X

X

X

X

X

X

Comments (Field PID)

Added  
Hubs to 307.  
M-02  
7/10/08

08070355-001

082

083

Laboratory Temperature upon Receipt

9.2 FCE

Lab ID #'s

08070355-001

082

083

### Samples Iced:

Yes  No

### Preservatives (ONLY for Water Samples)

- Volatile Organics ..... Hydrochloric acid (HCl)
- VOC Soil (5035) ..... Sodium Bisulfate/Methanol
- TPH ..... Hydrochloric acid and/or Sulfuric acid
- Metals ..... Nitric acid (HNO<sub>3</sub>)
- Cyanide ..... Sodium hydroxide (NaOH)
- Other (Specify) .....

### Lab Directives:

- Requested TAT:  Rush  5 Days  STD  Other
- Fax and/or Mail Results to: **D. Enggram**
- Send Invoice to: \_\_\_\_\_
- QC Deliverable Requested:  Full QC & Limits  CLP-LIKE  EDD  Other
- Special Guidelines: \_\_\_\_\_
- Reporting Limits: \_\_\_\_\_
- \* Special: \_\_\_\_\_

### Shipping:

Carrier / Airbill No. \_\_\_\_\_

### Relinquished by:

Signature: **Richard Huen**

Date: **7/10/08**

Time: **1717**

### Received by:

Signature: **McMinn-Darling II**

Date: **7/10/08**

Time: **1717**

APPENDIX F

Soil Boring Logs

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-800

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.51'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012603.00</b>	Coordinate Y: <b>1257642.64</b>
Location: <b>Off-Site (North Edge)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/14/08</b>	Date Completed: <b>04/14/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L.Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	40				FI	Silty CLAY with coal and cinders; dark brown; no visible impact; soft; no odor; damp; (FI)	1.3	2.0-3.0'
730	5-10	2	60				CL	Silty CLAY; brownish gray; no visible impact; stiff; very slight hydrocarbon-like odor; damp; (CL)	0.5	
725	10-14	3	80				CL	CLAY; light brownish green; no visible impact; soft; very slight hydrocarbon odor; moist; (CL)	1.3	9.0-10.0'
720	14-18	4	100				TL	Silty CLAY; greenish gray; no visible impact; soft; very slight diesel-like odor; moist; (CL)	1.4	
715	18-22	5	100				TL	- no odor Silty CLAY with trace gravel; gray; no visible impact; hard; no odor; damp; (TILL)	1.5	
710	22-26	6	100				TL	Silty CLAY with some gravel and fine grained sand; no visible impact; stiff; no odor; moist; (TILL)	0.4	
705	26-30	7	100				TL	- 0.5" sand seam, wet SILT with some clay; gray; no visible impact; hard; no odor; damp; (TILL/ML)	1.4	11.5-12.5'
700							TL	Sand and Gravel; medium grained with trace silt; gray; no visible impact; no odor; moist; (GM)	1.1	
695								Termination of Boring at 30.0' on 4/14/08	1.2	

Remarks:

Page 1 of 1



# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-801

Project Name: IP - Champaign Former MGP	Elevation: 736.28'	Datum:
Project Number: 62403053	Coordinate X: 1012703.07	Coordinate Y: 1257635.76
Location: Off-Site (North Edge)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 04/08/08	Date Completed: 04/08/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: R.Huson	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	93				FI	Silty CLAY with organics and roots; no visible impact; medium stiff; no odor; moist; (FILL)		2.0-3.0'
	5						CL	CLAY; light brown; no visible impact; soft; no odor; moist; (CL)		
730	5-10	2	100				SC	SAND with trace clay; light brown; no visible impact; no odor; (SP) - 6.0-7.5' sand seam; wet		
							CL	Silty CLAY with trace gravel; light brown; no visible impact; no odor; moist; (CL)		
	10						TL	Sandy CLAY; light brownish gray; no visible impact; slight hydrocarbon-like odor; moist; (TILL)	1.0	9.0-10.0'
725	10-14	3	100				TL	- 10.0-12.0' Sand Seam; moist (not saturated); very slight hydrocarbon-like odor at 12.0'	4.3	
							TL	Silty CLAY with gravel; yellowish brown; no visible impact; stiff to medium stiff; no odor; moist; (TILL)	1.0	
							TL	- very stiff	0.4	
720	14-18	4	100					Silty CLAY with gravel; gray; no visible impact; very stiff; no odor; damp; (TILL)	0.3	
								- 15.0-16.0' stiff	0.1	
								Silty CLAY with gravel; gray; no visible impact; stiff; no odor; damp; (TILL)	0.3	
715	18-22	5	100						0.7	
								- soft to medium stiff		
	25							- 0.5" sand seam		
								- 0.5" sand seam		
710	22-26	6	100					- sand		25.0-26.0'
								Silty CLAY with sand and gravel; gray; no visible impact; stiff to medium stiff; no odor; damp; (TILL)		
710	26-30	7	100							
								Termination of boring at 30.0' on 4/8/08		
705	30									
700	35									
695	40									
690	45									
685	50									
680	55									

Remarks:

Page 1 of 1

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-802

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.03'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012755.44</b>	Coordinate Y: <b>1257586.49</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/15/08</b>	Date Completed: <b>04/15/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	30					Silty CLAY with gravel and glass fragments; no visible impact; stiff; no odor; moist; (FILL)	0.3	2.0-3.0'
730	5-10	2	100				FI	CLAY; yellowish brown; no visible impact; soft; no odor; moist; (CL) - Slight coal tar-like odor	0.2 0.9 6.0 12.9	8.5-10.0'
725	10-14	3	100				CL	Silty CLAY; greenish gray; coal tar-like substance in voids (intermittent); silt; moderate to strong coal tar-like odor; moist; (CL)	29.7 27.7 37.9 155.0 42.9	14.5-15.5'
720	14-18	4	100				TL	Silty CLAY; greenish gray; coal tar-like substance in voids and gravel areas; medium stiff to stiff; moderate to strong coal tar-like odor; moist; (CL) - 13.5-14.0' no visible coal tar-like substance; moderate odor Silty CLAY with sand; gray; lightly impacted; stiff; strong coal tar-like odor; moist; (CL) - 2.0-3.0' sand seam; heavily impacted	356 169 175	
715	18-22	5	75				TL	- no coal tar-like substance at 18.0'; moderate odor Sand with trace gravel and silt; gray; no visible impact; medium dense; coal tar-like odor; damp; (SP)	57.7 30.7 25.2 32.6	25.0-26.0'
710	22-26	6	100				TL	- Slight odor	5.1 2.6 2.9	
705	26-30	7	100				TL	- 25.5 to 26.0' SILT with fine grained sand; gray; no visible impact; medium stiff; no odor; moist; (ML) SILT with trace clay and some gravel; gray; medium stiff; no odor; moist; (TILL)	2.2 0.8 4.2 4.1 2.8 2.4	
700							TL	Termination of boring at 30.0' on 4/15/08		

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-803

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.51'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012822.56</b>	Coordinate Y: <b>1257598.06</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/07/08</b>	Date Completed: <b>05/07/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	50				FI	Topsoil (FI)		
	5						CL	Silty CLAY with travel gravel; dark brown; no visible impact; medium stiff; no odor; damp; (CL)		2.0-3.0'
730	5-10	2	100					Silty CLAY; yellowish gray to yellowish brown; no visible impact; soft; no odor; damp; (CL)		
	10							- Slight coal tar-like odor; medium stiff; color change to yellow gray		
725	10-14	3	100					- Color change to gray/brownish gray with gravel; moderate odor	1.2	9.0-10.0'
	15							Silty CLAY with sand and gravel; yellowish gray; no visible impact; soft; very slight odor; (CL)	1.3	
720	14-18	4	100				TL	- color change to orangish gray; very slight odor	0.0	
	20							Silty CLAY with gravel and sand; yellowish gray; no visible impact; medium stiff; slight coal coal tar-like odor; damp; (CL)	1.3	
715	18-22	5	100					- color change to gray; coal tar-like odor	20.0	
	25							- Strong coal tar-like odor	3.2	
710	22-26	6	100					- Coal tar-like substance at 21.0'	2.3	21.0-22.0'
	30							- silty zone ~2.0" thick, wet	3.5	
705	26-30	7	100					- moderate odor	28.7	
	35							- 22.4' sand layer (~1.0" thick) moderate coal tar-like odor	5.0	
700								- very slight coal tar-like odor	0.0	
695								- no odor		29.0-30.0'
690								Termination of boring at 30.0' on 5/7/08		
685										
680										

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-804

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.86'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012898.24</b>	Coordinate Y: <b>1257585.19</b>
Location: <b>Off-Site (North Edge)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/08/08</b>	Date Completed: <b>04/08/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method:	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	40				FI	Silty CLAY with trace cinders; dark brown; no visible impact; soft; no odor; damp; (FILL)	0.2	1.5-2.5'
730	5-10	2	100				CL	- 3.0" FILL grading to CLAY; light brown; no visible impact; medium stiff; no odor; moist; (CL)	0.4 0.5 0.6	8.5-9.5'
725	10-14	3	100				CL	CLAY with some gravel; no visible impact; stiff; no odor; wet; (CL)	0.3 0.5 0.6	
720	14-18	4	100				TL	- 10.0 to 11.5' SAND; wet Silty CLAY with gravel; yellowish gray; no visible impact; stiff; no odor; moist; (CL)	0.3 0.6 0.4 0.5	
715	18-22	5	100				TL	Silty CLAY with gravel; gray; no visible impact; stiff; no odor; moist; (TILL)	0.7 0.6 0.5 0.6	15.0-16.0'
710	22-26	6	100				TL	- Sandy gravel ~1.0" thick	0.7 0.6 0.7 0.5	
705	26-30	7	100				TL	Silty CLAY with gravel; gray; no visible impact; stiff to very stiff; no odor; moist; (TILL)	0.8 0.6 0.5	
700								Termination of boring at 30.0' on 4/8/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-805

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.59'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012961.62</b>	Coordinate Y: <b>1257604.16</b>
Location: <b>Off-Site (North Edge)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/09/08</b>	Date Completed: <b>04/09/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	100				FI	Silty CLAY with roots; dark brown; (FILL)		1.0-2.0'
730	5-10	2	100				FI	CLAY with some silt; light brown; no visible impact; stiff; no odor; damp; (CL) Sandy CLAY with some gravel; light brown to yellow; no visible impact; no odor; moist; (CL) - 1.5" sand seam SAND; light brown; no visible impact; no odor; wet-saturated from 7.0-8.0'		7.0-8.0'
725	10-14	3	100				CL	Sandy CLAY with some gravel; brownish yellow; no visible impact; medium stiff; no odor; moist; (CL) Sand and gravel; wet-saturated (from 10.0-12.0')	0.1	13.0-14.0'
720	14-18	4	100				CL	Silty CLAY with trace gravel; light brown; no visible impact; medium stiff; no odor; moist; (TILL) - gray; stiff		
715	18-22	5	100				CL	Silty CLAY with gravel; gray; no visible impact; stiff; no odor; moist; (TILL) - no gravel, silt to fine sand - 1.0" sand seam		
710	22-26	6	100				CL	Silty CLAY with gravel; gray; no visible impact; medium stiff; moist; (TILL) - gravel (1.0")		
710	26-30	7	100				TL	Termination of boring at 30.0' on 4/9/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-806

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.11'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012945.21</b>	Coordinate Y: <b>1257543.91</b>
Location: <b>Off-Site (North Edge)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/08/08</b>	Date Completed: <b>04/08/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	60				FI	Silty CLAY with roots; brown; no visible impact; soft to medium stiff; no odor; moist; (FILL)		2.0-3.0'
730	5-10	2	100				CL	Silty CLAY; yellowish gray; no visible impact; stiff; no odor; moist; (CL)	0.1	
725	10-14	3	100				TL	Silty CLAY with some sand and trace gravel; light brown; no visible impact; soft; no odor; wet; (CL) - 10.0 - 11.5' SAND seam; light brown; well-saturated; grading to silty CLAY with trace gravel; light brownish gray; no visible impact; stiff; no odor; damp; (TILL)	0.4 0.6 0.7 0.6	8.5-9.5'
720	14-18	4	100					- gray; very stiff (TILL)	0.7	11.0-12.0'
715	18-22	5	100					- hard		
710	22-26	6	100					Silty CLAY with trace gravel; light gray; no visible impact; very hard; no odor; damp; (TILL)	0.3 0.7 0.4 0.9 0.4 0.9 0.5 0.1 0.0	
705	26-30	7	100					- 3.0" stiff, moist, wet zone		
700								Termination of boring at 30.0' on 4/8/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-807

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>738.22'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1013033.67</b>	Coordinate Y: <b>1257511.50</b>
Location: <b>Off-Site (East ROW)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/08/08</b>	Date Completed: <b>04/08/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	100				FI	Silty CLAY with roots and glass, cinders, gravel; dark brown; no visible impact; no odor; (FILL)	0.6 0.8 0.5	2.0-3.0'
730	5-10	2	100				CL	5.3' Silty CLAY with some sand; yellowish gray, no visible impact; stiff; no odor; damp; (CL)	0.3 0.7 0.6 0.4 0.5 0.7	8.5-9.5'
725	10-14	3	100				TL	2.0" sand seam; wet Silty CLAY with sand and gravel; yellowish gray; no visible impact; stiff; no odor; moist; (CL) Sand with trace clay (10.0-11.0'); wet-saturated grading to silty clay with some gravel; light brown; no visible impact; medium stiff to stiff; no odor; moist; (TILL)	1.0	13.0-14.0'
720	14-18	4	100				TL	- stiff - 0.5" sand seam Silty CLAY with some gravel; light brown; no visible impact; stiff; no odor; damp; (TILL)	0.8 0.9 0.5 0.4 0.6 0.2 0.5 0.2	
715	18-22	5	100					- gray; stiff		
710	22-26	6	100					Sandy CLAY with some silt and trace gravel; light gray; no visible impact; stiff to very stiff; no odor; damp; (TILL)	0.3 0.6 0.4 0.5 0.6 0.4 0.5	
705	26-30	7	100					Termination of boring at 30.0' on 4/8/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-809

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.28'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1013122.72</b>	Coordinate Y: <b>1257417.67</b>
Location: <b>502 E. Hill St. Champaign, Illinois</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/08/08</b>	Date Completed: <b>05/08/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	38				FI	Cinders; black; no visible impact; no odor; (FILL)		2.0-3.0'
730	5-10	2	90				CL	Silty CLAY; dark brown to black; no visible impact; medium stiff; no odor; moist; (CL) Silty CLAY; yellowish gray; no visible impact; medium stiff; no odor; moist; (CL)		9.0-10.0'
725	10-14	3	100				TL	- gravel and sand with some clay; wet - gravel Silty CLAY with gravel and sand; yellowish gray; no visible impact; stiff to very stiff; no odor; damp; (CL)		15.0-16.0'
720	14-18	4	100					- color change to gray; friable ~3.0" thick		
715	18-22	5	100					17.8' - silty layer, ~3.0" thick Silty CLAY with gravel and sand; gray; no visible impact; very stiff to stiff; no odor; damp; (TILL)		
710	22-26	6	100							
705	26-30	7	100					- Sand seam ~2.0" thick		
700								Termination of boring at 30.0" on 5/8/08#		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-811

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.62'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1013024.38</b>	Coordinate Y: <b>1257274.22</b>
Location: <b>Off-Site (East ROW)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/05/08</b>	Date Completed: <b>05/05/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	100				FI	Silty CLAY with gravel and concrete; dark brown; no visible impact; medium stiff; no odor; damp; (FILL)	0.0	
730	5-10	2	78				CL	Sandy CLAY; brownish gray with orange oxidation; no visible impact; medium dense; no odor; damp; (CL) - color change to yellowish gray; wet Silty CLAY with gravel; yellowish gray; no visible impact; soft to medium stiff; no odor; wet; (CL) - ~2.0" sand seam, wet - ~2.0" sand seam		2.0-3.0' 9.0-10.0' 11.0-12.0'
725	10-14	3	100				TL	Silty CLAY with gravel; gray; no visible impact; stiff to very stiff; no odor; (TILL)		
720	14-18	4	100							
715	18-22	5	100					- gravel; wet		
710	22-26	6	100					- sandy; wet zone ~1.5" thick		
705	26-30	7	100							
700								Termination of boring at 30.0' on 5/5/08	0.0	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-812

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.68'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1013022.86</b>	Coordinate Y: <b>1257226.14</b>
Location: <b>Off-Site (East ROW)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/05/08</b>	Date Completed: <b>05/05/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	67				FI	Silty CLAY with some gravel and roots; brown; no visible impact; stiff; no odor; dry; (FILL)	0.4 0.8	1.0-2.0'
730	5-10	2	100				CL	Silty CLAY; light brown; no visible impact; stiff; no odor; damp; (CL) CLAY; brownish-yellow; no visible impact; soft; no odor; damp; (CL) - trace gravel	0.2 1.1 0.2 0.7 0.8 0.9	9.0-10.0'
725	10-14	3	100				TL	- stiff Sandy CLAY; light brown; no visible impact; very soft; no odor; wet-saturated; (CL)	0.8 3.1 0.0	11.0-12.0'
720	14-18	4	100				TL	CLAY with trace silt and gravel; gray; no visible impact; stiff; no odor; damp; (TILL)		
715	18-22	5	100				TL	- very stiff to hard SILT with trace clay and gravel; gray; no visible impact; very hard; no odor; slightly damp; (TILL)		
710	22-26	6	100					- some sand SILT with sand; gray; no visible impact; soft; no odor; wet; (ML)		
705	26-30	7	100					SILT with trace clay and gravel; gray; no visible impact; hard; no odor; (TILL) - trace sand - medium stiff		
700								Termination of boring at 30.0' on 5/5/08		

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-813

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.55'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1013050.65</b>	Coordinate Y: <b>1257175.25</b>
Location: <b>Off-Site (East ROW)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/07/08</b>	Date Completed: <b>04/07/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	70				FI	Silty CLAY; dark brown; no visible impact; no odor; damp; (FILL)	1.2 1.1 0.9 1.1	2.0-3.0'
730	5-10	2	93				CL	Silty CLAY; yellowish brown; no visible impact; stiff; no odor; damp; (CL) - 4.0" silty sandy clay; moist - increasing sand and gravel	1.2 1.1 0.9 1.2 1.3	6.0-7.0'
725	10-14	3	100				TL	Silty CLAY with gravel; yellowish brown; no visible impact; stiff; no odor; damp; (CL)	1.2 1.1	11.0-12.0'
720	14-18	4	100				TL	Silty CLAY with gravel; gray; no visible impact; stiff; no odor; damp; (TILL) - 14.0-15.0' very gravelly; wet	1.3 1.0	
715	18-22	5	100				TL	Silty CLAY with gravel; gray; no visible impact; stiff; no odor; damp; (TILL)	0.9 1.3	
710	22-26	6	100				TL	- gray sand with clay Silty CLAY with sand and gravel; gray; no visible impact; medium stiff to stiff; no odor; damp to wet; (TILL)	1.2 1.1 1.4 1.5 1.4	
710	26-30	7	100				TL	- more sand from 26.0-30.0'	1.5	
705	30							Termination of boring at 30.0' on 4/7/08	1.4 1.5	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-814

**Project Name:** IP - Champaign Former MGP

**Elevation:** 737.37'

**Datum:**

**Project Number:** 62403053

**Coordinate X:** 1012964.42

**Coordinate Y:** 1257220.87

**Location:** Southeast Corner of Site

**Total Depth:** 28.00'

**Borehole Dia.:** 2.00in

**Date Started:** 04/01/08

**Date Completed:** 04/01/08

**Section/Township/Range:**

**Consultant:** PSC

**Drilled By:** PSC

**Logged By:** L. Hoosier

**Drilling Method:** GeoProbe

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	67				FI	SILT with trace clay and some gravel; dark brown; no visible impact; no odor; damp; (TILL)	0.0	0.0-2.0'
730	4-8	2	100				CL	Silty CLAY; some mottling; light brown; no visible impact; medium stiff; no odor; moist; (CL) - trace gravel; soft to very soft		7.0-8.0'
725	8-12	3	100				CL	Sandy CLAY; light brown; no visible impact; very soft; no odor; wet; (CL) - changes to soft; moist		
720	12-16	4	100				TL	- changes to stiff; color change to light brownish gray - 2.0" sand seam; light brownish gray; soft; moist		
715	16-20	5	100				TL	Silty CLAY with some gravel and fine grained sand; gray; no visible impact; very hard; no odor; damp; (CL) Silty CLAY with some fine grained sand; light brown; no visible impact; very soft; no odor; wet; (CL) - sand seam; light brown; wet		17.0-18.0'
710	20-24	6	100				TL	Sand CLAY with some gravel and fine grained sand; light brown grading to light gray; no visible impact; very hard; no odor; damp; (TILL)		
705	24-28	7	100				TL	Silty CLAY with some gravel and fine grained sand; light gray; no visible impact; very hard; no odor; damp (TILL) - very hard		
710								Silty CLAY with some gravel and fine grained sand; light gray; no visible impact; medium stiff; no odor; moist; (TILL) Termination of boring at 28.0' on 4/1/08	0.0	

**Remarks:**

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-815

Project Name: IP - Champaign Former MGP	Elevation: 737.13'	Datum:
Project Number: 62403053	Coordinate X: 1012997.24	Coordinate Y: 1257175.01
Location: Offsite (Southeast corner)	Total Depth: 26.00'	Borehole Dia.: 2.00in
Date Started: 04/07/08	Date Completed: 04/07/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: L. Hoosier	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	80				FI	Silty CLAY with some roots; dark brown; no visible impact; soft; no odor; moist; (FILL)	1.0	
							CL	CLAY; light brown with dark brown mottling; no visible impact; medium stiff; no odor; moist; (CL)	1.1	2.0-3.0'
	5	2	87				TL	Silty CLAY with trace gravel and fine grained sand; light brownish gray; no visible impact; stiff; no odor; moist (TILL)	1.2	
730	5-10								1.3	
	10	3	100					Silty CLAY with trace gravel; light gray; no visible impact; stiff; no odor; damp; (TILL)	1.2	7.0-8.0'
725	10-14								1.1	
	15	4	100					- very stiff	1.2	
720	14-18								1.1	
	20	5	100						1.3	
715	18-22								1.2	
	25	6	100					Silty CLAY with trace fine grained sand and gravel; light gray; no visible impact; very stiff; no odor; damp; (TILL)	1.2	
710	22-26							- soft - very hard (TILL)	1.1	25.0-26.0'
	30							Auger refusal at 26.0' on 4/7/08		
705										
700										
695										
690										
685										
680										

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-816

Project Name: IP - Champaign Former MGP	Elevation: 737.56'	Datum:
Project Number: 62403053	Coordinate X: 1012893.21	Coordinate Y: 1257218.79
Location: Southeast Corner of Site	Total Depth: 27.00'	Borehole Dia.: 2.00in
Date Started: 04/01/08	Date Completed: 04/01/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: L. Hoosier	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	67				FI	Silty CLAY with concrete, coal, brick fragments and roots; brown; no visible impact; medium stiff; no odor; damp; (FILL)		1.0-2.0'
730	4-8	2	100				CL	Silty CLAY; brown; no visible impact; stiff; no odor; damp; (CL) Silty CLAY with roots; light brown; no visible impact; no odor; (CL) - 0.5" sand seam - some fine grained sand/trace gravel; soft; moist; roots Sandy CLAY; brown; no visible impact; very soft; no odor; wet/water; (CL)	0.5	9.0-9.5'
725	8-12	3	100				TL	Silty CLAY with trace fine grained sand; light brown with dark gray area; no visible impact; soft; slight petro-like odor; moist; (CL) - 9.5" no odor - 0.5" sand seam (med. coarse grained) grading to sandy CLAY; light brown; very stiff; damp		
720	12-16	4	100				TL	Clayey fine grained SAND; light brown; no visible impact; very soft; no odor; wet; (SC) Sandy CLAY with some fine grained sand and gravel; light brownish gray; no visible impact; soft; no odor; moist; (CL) - very stiff 15.0 - 18.0' no recovery (wet zone)		19.0-21.0'
715	16-20	5	100					CLAY with some sand and coarse gravel; light gray; no visible impact; very stiff; no odor; moist; (CL)		
710	20-24	6	75							
705	24-27	7	33					Sandy CLAY some sand and gravel; light gray; no visible impact; no odor; moist; (CL)		
700								Termination of boring at 27.0' on 4/1/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-817

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.17'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012853.92</b>	Coordinate Y: <b>1257196.23</b>
Location: <b>Offsite (South center)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/07/08</b>	Date Completed: <b>04/07/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	80				FI	Silty CLAY with some gravel and roots; dark brown; no visible impact; medium stiff; no odor; moist; (FILL)	0.7 0.8 0.9	2.0-3.0'
730	5-10	2	87				CL	CLAY with roots; light brown; no visible impact; soft; no odor; moist; (CL) - 1.0" sand seam; wet - 3.0" sand seam; wet (SW)	1.0 0.9 1.1 1.6 1.8 1.8	8.0-9.0'
725	10-14	3	100				TL	CLAY with trace gravel and fine grained sand; light brown/gray; no visible impact; no odor; wet; (CL) - 6.0" sand seam; wet (SW) Sandy CLAY with trace silt and gravel; no visible impact; very soft; no odor; wet; (CL)	1.2 1.5 2.0 1.9 1.7	
720	14-18	4	100				TL	Silty CLAY with trace fine grained sand and gravel; no visible impact; medium stiff; no odor; moist; (TILL)	1.1 1.1 1.0 1.2	
715	18-22	5	100				TL	Silty CLAY with trace fine grained sand and gravel; light gray; no visible impact; very stiff; no odor; damp; (TILL)	1.1 1.1 1.0 1.2	
710	22-26	6	100				TL	- soft; wet	1.1 1.2 1.3	
710	26-30	7	100				TL	- 1.0" sand seam; wet Sandy CLAY; light gray; no visible impact; very soft; no odor; wet; (TILL) - 3.0" sand seam; moist	1.2 1.1 1.1	26.0-27.0'
705	30							- hard Termination of boring at 30.0' on 4/7/08	1.2	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-818

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.89'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012822.48</b>	Coordinate Y: <b>1257219.35</b>
Location: <b>South-Center Portion of Site</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/01/08</b>	Date Completed: <b>04/01/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	100				FI	Cinders, some fine grained sand, some gravel, some silty clay; dark brown; no visible impact; no odor; moist; (FILL)		2.0-3.0'
730	4-8	2	100				CL	Silty CLAY with some sand; brown; no visible impact; no odor; wet; (CL) - 4.5' sand seam, no odor - moderate coal tar-like odor - strong coal tar-like odor	2.2 9.4 22.7 61.5 71.1	
725	8-12	3	100				CL	Silty CLAY w/some sand; dark brown; coal tar-like impact; v. soft; strong odor; moist; (CL) - dark gray to black color; heavily stained with coal tar-like substance	122.0 22.0	7.5-8.0'
720	12-15	4	100				TL	At 8.0' Medium grained SAND; black; heavily stained; very strong odor; wet; (SW) At 9.0' Sandy w/some clay; dark gray/black; heavily stained; very soft; strong coal tar-like odor; wet; (SC)	3.0 29.0 32.2 65.6 81.4	13.0-15.0'
715	15-18	5	100					Silty CLAY with trace gravel; light brown; intermittent coal tar-like substance; soft; moderate odor; moist; (CL) - heavily stained-saturated; very strong coal tar-like odor; wet Silty CLAY with some sand; very heavily stained; very strong odor; - wet-saturated - very strong odor	117.0 85.1 15.0	
710	18-21	6	100					- 1.5" sand seam; wet; grads to silty clay; light brown; moderate staining and odor		
705	21-24	7	100					At 15.0' Silty CLAY with trace gravel; light gray; no visible impact; stiff; slight odor; moist; (CL) Silty CLAY; light gray; no visible staining; stiff; slight odor; damp; (CL) - very slight odor	2.7 3.0 3.6	
700	24-27	8	100					- grading to gray silty clay	7.6 4.3 22.0	24.5-25.0'
695	27-30	9	100						5.2 3.9 13.5 6.6 6.4 3.4	
690								Termination of boring at 30.0' on 4/1/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-819

Project Name: IP - Champaign Former MGP	Elevation: 738.85'	Datum:
Project Number: 62403053	Coordinate X: 1012790.63	Coordinate Y: 1257168.70
Location: Offsite (South center)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 04/07/08	Date Completed: 04/07/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: L. Hoosier	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	87				FI	Silty CLAY with some roots; dark brown; no visible impact; stiff; no odor; damp; (FILL)	0.4	
730	5-10	2	80				CL	CLAY with some roots; light brown with some dark brown mottling; no visible impact; medium stiff; no odor; damp; (CL)	0.7 0.9	2.0-3.0'
725	10-14	3	100				CL	- moist, soft - 1/8" sand seam at 10.5' Silt with trace gravel and fine grained sand; light brown; no visible impact; medium stiff; no odor; moist; (SM)	0.6 1.1 1.2 1.3	8.5-9.5'
720	14-18	4	100				TL	- 0.5" sand seam at 13.0'; wet - moist - sand seam - sand seam ~1.0"; wet	0.6 0.8 1.2	
715	18-22	5	100				TL	Sandy CLAY with trace gravel; light brown; no visible impact; medium stiff; no odor; damp; (TILL)	0.8	
710	22-26	6	100				TL	- gravel, fine grading to coarse; wet  Sandy CLAY with trace gravel; light gray; no visible impact; medium stiff to stiff; no odor; moist; (TILL)	1.2 0.8	
705	26-30	7	100					- stiff; damp  Termination of boring at 30.0' on 4/7/08	0.6	28.0-29.0'

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-820

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.44'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012735.36</b>	Coordinate Y: <b>1257189.72</b>
Location: <b>Offsite (South center)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/04/08</b>	Date Completed: <b>04/04/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	100				FI	SILT with trace clay, gravel, and coal fragments; dark brown; no visible impact; no odor; (FILL)	0.9	1.0-2.0'
730	4-8	2	100				CL	Silty CLAY with trace gravel and roots; day brown; no visible impact; stiff; no odor; damp; (CL) CLAY with roots; light brown; no visible impact; stiff; no odor; damp; (CL)	1.0 0.9 1.1 1.2 1.3 1.1	
725	8-12	3	89					- sand seam (~1/8" thick), fine to medium grained sand; wet Clayey SAND; light brown; no visible impact; soft; no odor; wet; (SC)		8.5-9.5'
720	12-15	4	75				TL	- medium stiff - trace gravel (TILL)	1.2 1.1 1.2	
715	15-18	5	100					Silty CLAY with trace gravel; light gray; no visible impact; very stiff; no odor; damp; (TILL)	1.3	25.0-26.0'
710	18-21	6	100					- very hard Silty CLAY with trace gravel; light gray; no visible impact; very stiff; no odor; damp; (TILL)	1.2 1.8 1.9	
705	21-24	7	100						1.8	
700	24-27	8	100						0.9	
695	27-30	9	100							
690								Termination of boring at 30.0' on 4/4/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-821

Project Name: IP - Champaign Former MGP	Elevation: 734.99'	Datum:
Project Number: 62403053	Coordinate X: 1012676.03	Coordinate Y: 1257167.08
Location: Offsite (South center)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 04/04/08	Date Completed: 04/04/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: L. Hoosier	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
730	5	1 0-4	33				FI	Gravel with some silty clay; dark brown; (FILL)		0.5-3.0'
725	10	2 4-8	12					Gravel with trace clay; light brown with red and orange mottling; no visible impact; soft; no odor; moist; (FILL)		
720	15	3 8-12	75				SC	SAND and gravel with trace clay; light brown; no visible impact; very soft; no odor; wet; (SP)		9.0-10.0'
715	20	4 12-15	100				CL	Sandy CLAY; light brown; no visible impact; soft; no odor; moist; (CL) - 1/4" sand seam	0.7 1.8	
710	25	5 15-18	100				TL	Silty Clay with trace fine grained sand; light brown; no visible impact; stiff; no odor; damp; (CL)	1.7	
705	30	6 18-21	75					Silty CLAY with trace gravel and fine grained sand; light brownish gray; no visible impact; stiff; no odor; damp; (TILL)	1.1	19.0-20.0'
700	35	7 21-24	100					Silty CLAY with trace gravel; light gray; no visible impact; stiff; no odor; damp; (TILL)	1.2	
695	40	8 24-27	100					Silty CLAY with trace gravel; light gray; no visible impact; very stiff to hard; no odor; damp; (TILL)	1.1	
690	45	9 27-30	100							
685	50							Termination of boring at 30.0' on 4/4/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

B-822

Project Name: IP - Champaign Former MGP

Elevation: 737.77'

Datum:

Project Number: 62403053

Coordinate X: 1012685.40

Coordinate Y: 1257216.82

Location: South-Center Portion of Site

Total Depth: 30.00'

Borehole Dia.: 2.00in

Date Started: 04/01/08

Date Completed: 04/01/08

Section/Township/Range:

Consultant: PSC

Drilled By: PSC

Logged By: L. Hoosier

Drilling Method: GeoProbe

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	75		FI		FI	Silty Clay with coal and brick fragments; brown; no visible impact; soft; no odor; damp; (FILL)	0.3 0.7	1.0-30'
730	4-8	2	100		CL		CL	Silty CLAY; light brown; no visible impact; very stiff; no odor; damp; (CL) - some dark brown mottling Silty CLAY; light brownish green; no visible impact; soft; no odor; moist; (CL) - Sand pocket; dark gray; moderate naphthalene-like odor; moist	9.6 0.3 1.2 1.2 1.5 3.4 3.6 3.6 3.6 3.6	6.0-8.0'
725	8-12	3	100		TL		TL	Sandy CLAY; light brown; no visible impact; very soft; no odor; wet/water; (CL) - sand seam; dark gray; slight to moderate oil like odor; soft; moist - some gravel; no odor - some coarse gravel - stiff to hard; no odor - 1.0" sand seam; grayish brown grading to light brown/gray silty clay; - some coarse sand and gravel - very stiff to very hard	4.4 1.5 1.3 1.4 1.7 3.6	13.0-15.0'
720	12-15	4	100		TL		TL	Silty CLAY with some fine grained sand; light gray; no visible impact; hard; no odor; damp; (CL) Sandy CLAY; light gray/brown; no visible impact; soft; no odor; moist; (CL)	1.4 1.7 3.6	
715	15-18	5	100		TL		TL	16.0' - 4.0" fine to medium grained sand seam; gray; moist 16.5' - silty CLAY with some gravel and fine grained sand; light gray; no visible impact; hard; no odor; moist; (CL)	2.7 3.5 4.1 4.5 3.0	
710	18-21	6	100		TL		TL	Sandy with some clay; brownish gray; no visible impact; very soft; no odor; moist; (SC) Sandy CLAY; light gray; no visible impact; very soft; no odor; wet; (CL)	7.1 7.5	27.0-28.0'
705	21-24	7	100		TL		TL	- 3.0" sand seam; light gray; wet (SP) Silty CLAY with some fine grained sand; no visible impact; very hard; no odor; (CL) - 1.0" sand seam; light gray; wet	19.6 7.1	
700	24-27	8	100		TL		TL	Silty CLAY; light gray; no visible impact; soft; very slight fuel-like odor; moist; (CL)	5.0	
695	27-30	9	100		TL		TL	Termination of boring at 30.0' on 4/1/08		

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-823

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>738.19'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012597.56</b>	Coordinate Y: <b>1257218.44</b>
Location: <b>Southwest Corner of Site</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/01/08</b>	Date Completed: <b>04/01/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	100				FI	Silty CLAY with bricks and concrete fragments, and organics; dark brown; no visible impact; no odor; (FILL) - fabric snagged in shoe	0.5	3.0-4.0'
730	4-8	2	100				CL	Silty CLAY with roots; light brown with dark brown mottling; no visible impact; stiff; no odor; damp; (CL)	0.4 0.5 0.2 0.1 0.2	
725	8-12	3	100					- moist; 0.5" sand seam Silty CLAY; light brownish green; no visible impact; very soft; no odor; moist; (CL) Silty CLAY; gray; no visible impact; soft; slight fuel-like odor; moist; (CL)	0.1 0.2 10.1 0.3	9.0-10.0'
720	12-18	4	100					Silty CLAY; light brown; no visible impact; stiff; no odor; damp; (CL) - slightly stained; slight to moderate coal tar-like odor - some gravel - no odor	2.4 4.5 0.4 0.5 1.2 0.6	
715	18-24	5	100				TL	Silty CLAY with some sand and gravel; light gray; no visible staining; stiff; no odor; moist (CL)	15.2 5.8 0.2 0.3	13.0-15.0'
710	24-27	6	100							
705	27-30	7	100							
700										
695										
690										
685										
680										
								Termination of boring at 30.0' on 4/1/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-824

Project Name: IP - Champaign Former MGP	Elevation: 737.34'	Datum:
Project Number: 62403053	Coordinate X: 1012584.24	Coordinate Y: 1257190.95
Location: Off-Site (Southwest Corner)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 04/04/08	Date Completed: 04/04/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: L. Hoosier	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	75				FI	Silty CLAY with trace coal fragments; dark brown; no visible impact; no odor; damp; (FILL)	0.5	1.0-3.0'
730	4-8	2	100				CL	CLAY; light brown; no visible impact; stiff; no odor; damp; (CL)	0.0	
730	8-12	3	100				CL CL	- 3.5" sand seam; fine grained; light brown; wet CLAY; light brown; no visible impact; soft; no odor; moist; (CL) SAND with some clay; light brown; no visible impact; very soft; no odor; wet; (SW)	0.5 0.0	
725	12-15	4	100				TL	7.0' - Sandy CLAY with trace gravel; no visible impact; medium stiff; no odor; moist; (CL)	0.6	9.0-10.0'
720	15-18	5	100				TL	8.0' - CLAY; light brown with gray mottling and trace gravel; no visible impact; slight petro-like odor; (CL)	3.8 1.2 0.4	
715	18-21	6	100					Sandy CLAY with trace gravel; light brownish gray; no visible impact; soft; no odor; wet; (CL)	0.6	
715	21-24	7	100					Silty CLAY with trace gravel and sand; light gray; no visible impact; medium stiff to stiff; no odor; moist; (TILL)	0.3 0.6	
710	24-27	8	75					Silty CLAY with trace gravel; no visible impact; stiff; no odor; moist; (TILL)	0.4 0.5	
710	27-30	9	100					- very hard	0.6 0.5	23.0-24.0'
705	30							Termination of boring at 30.0' on 4/4/08	0.4 0.3	
700									0.6	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-825

Project Name: IP - Champaign Former MGP	Elevation: 737.30'	Datum:
Project Number: 62403053	Coordinate X: 1012533.02	Coordinate Y: 1257211.63
Location: Off-Site (Southwest Corner)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 04/03/08	Date Completed: 04/03/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: R. Huson	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	100				FI	Bricks, gravel and tree roots (FILL)	0.3	
							CL	Silty CLAY with trace gravel; greenish brown to light brown; no visible impact; no odor; (CL) - changed to light brown CLAY (CL)	0.6	2.0-3.0'
								- 0.5' sand seam	1.3	
730	4-8	2	100						1.4	
							CL	Sandy, silty CLAY with gravel; light brown; no visible impact; no odor; wet; (CL)	0.5	8.0-9.0'
								- 0.5' sand seam; wet	0.6	
725	8-12	3	100						0.7	
							TL	- 13.5 - 14.0' transition to silty CLAY with gravel, gray; no visible impact; hard; no odor; dry; (TILL)	1.0	18.0-19.0'
								- Fall-in silty CLAY; light brown	0.9	
720	12-15	4	100						0.8	
								Silty CLAY with gravel; gray; no visible impact; hard; no odor; dry; (TILL)	1.1	25.0-26.0'
									0.3	
715	15-18	5	100						0.5	
									0.7	
710	18-21	6	100						0.7	
									0.7	
705	21-24	7	100						0.7	
									0.7	
700	24-27	8	100						0.7	
									0.7	
695	27-30	9	100						0.7	
								Termination of boring at 30.0' on 4/3/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-826

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.52'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012532.97</b>	Coordinate Y: <b>1257267.28</b>
Location: <b>Off-Site (West side of 5th Street)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/03/08</b>	Date Completed: <b>04/03/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	65				FI CL	FILL; tree roots; black; (FILL) Silty CLAY; yellowish brown; no visible impact; no odor; moist; (CL)	0.5 0.6 0.7 0.9 0.6 0.8	2.0-3.0'
730	4-8	2	79					Silty, sandy CLAY; yellow brown to light brown; no visible impact; no odor; (CL) - sand and gravel seam at 7.0' - 7.0-9.0' layered sand and silty clay	1.1	8.0-9.0'
725	8-12	3	94					- material stiffens; gravel - 12.5-13.5' sand and gravel layer; saturated	0.9 1.0 1.1 0.5 0.6 0.7	
720	12-16	4	100				SC CL		1.2	16.0-17.0'
715	16-19	5	100				TL	Silty CLAY with abundant gravel; gray; no visible impact; hard; no odor; moist; (TILL)	0.9 1.0 0.8 0.6 0.5 0.7	
710	19-22	6	69						0.8 0.6 0.5 0.4	
705	22-25	7	100						0.5 0.7 0.8 0.5 0.4	
700	25-28	8	100						0.5 0.5 0.4	
695	28-30	9	100					- 28.0-29.5' soft, wet seam	1.2 1.1 0.9	
690								Termination of boring at 30.0' on 4/3/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-827

Project Name: IP - Champaign Former MGP

Elevation: 738.40'

Datum:

Project Number: 62403053

Coordinate X: 1012596.34

Coordinate Y: 1257315.25

Location: West side of site

Total Depth: 28.50'

Borehole Dia.: 2.00in

Date Started: 04/02/08

Date Completed: 04/02/08

Section/Township/Range:

Consultant: PSC

Drilled By: PSC

Logged By: L. Hoosier

Drilling Method: GeoProbe

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	75				FI	Silty CLAY with some gravel, roots, and brick fragments; dark brown; no visible impact; medium stiff; no odor; damp; (FILL)	0.9	
							CL	Silty CLAY with roots; light brown with some mottling; no visible impact; medium stiff; no odor; damp; (CL)	1.0	2.5-3.0'
	4-8	2	100					- moist; very slight odor	1.1	
								- gray; light MGP-like staining; moderate odor	1.2	
								- 4.0" sand seam; dark gray; moderate staining; strong odor; soft; wet	7.5	
730	8-12	3	100				SP	Silty CLAY; light brownish green; no visible impact; slight odor; very moist; (CL)	16.5	7.0-8.0'
							SC	- 0.5" sand seam; light brown; slight odor; wet (saturated)	29.5	
							TL	SAND with trace clay; no visible impact; very soft; slight to moderate odor; wet; (SP)	21.9	
								Clayey SAND with some gravel; gray; light staining; slight odor; wet; (SC)	22.5	
725	12-16	4	100					Silty CLAY with some gravel and fine grained sand; light brown/gray; no visible impact; stiff; slight odor; damp; (CL)	15.4	12.0-13.0'
								Silty CLAY;; light brown; no visible impact; very stiff to hard; slight odor; damp; (CL)	10.8	
								Sandy CLAY; gray; no visible impact; very stiff; slight odor; moist; (CL)	2.7	
720	16-20	5	100					- very slight odor	11.3	
									1.3	
									9.2	
									1.5	
									6.4	
									0.3	
									1.5	
									1.2	
									0.5	
									1.5	
715	20-24	6	100					Silty CLAY with some sand and gravel; light gray; no visible impact; stiff very stiff; slight odor; damp; (CL)	1.9	
									1.8	
									1.6	
									1.4	
									1.5	
									1.6	26.0-27.0'
									1.7	
710	24-28.5	7	100					SAND with trace clay; gray; no visible impact; moderate odor; wet-saturated; (SC)	1.9	
								Silty CLAY; light gray; very light staining (sheen); very hard; slight to moderate odor; damp; (CL)		
								Auger refusal at 28.5' on 4/2/08		

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-828

Project Name: IP - Champaign Former MGP	Elevation: 737.85'	Datum:
Project Number: 62403053	Coordinate X: 1012532.80	Coordinate Y: 1257334.52
Location: Off-Site (West side of 5th Street)	Total Depth: 26.80'	Borehole Dia.: 2.00in
Date Started: 04/03/08	Date Completed: 04/03/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: R. Huson	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	58				FI	1.7' FILL (soil); black; damp	0.3	
735	4-8	2	90				CL	Silty CLAY; yellowish brown; no visible impact; no odor; damp; (CL)	0.4	2.0-3.0'
730	8-12	3	92					Silty CLAY with gravel; yellowish brown; no visible impact; no odor; (CL)	0.5	
725	12-15	4	93					- changes to greenish gray, no gravel	0.4	
725	15-18	5	94					- MGP-like odor	0.9	9.0-10.0'
720	18-22	6	90				TL	Sandy CLAY with gravel; greenish gray; no visible impact; no odor; moist; (CL)	1.1	
715	22-24	7	58					- changes to wet sand, ~1.0' thick	2.6	12.0-13.0'
715	24-26.8	8	94					Silty CLAY with gravel; reddish gray; no visible impact; no odor; (CL)	1.5	
710								Silty CLAY with gravel; gray; no visible impact; no odor; (CL)	0.8	17.0-18.0'
710								- hard drilling at 21.0'	0.7	
710								Auger refusal at 26.8' on 4/3/08	0.5	
705									1.5	
700									1.2	
695									1.4	
690									1.1	
685									0.7	
680									0.8	
680									1.5	

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-829

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.10'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012596.14</b>	Coordinate Y: <b>1257367.55</b>
Location: <b>West side of site</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/02/08</b>	Date Completed: <b>04/02/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	63				FI	Topsoil with roots and gravel, grading to concrete and gravel fragments; dark brown; no visible impact; stiff; no odor; damp; (FILL)	1.0	2,0-3,0'
							CL	Clayey SILT with some gravel; dark brown; no visible impact; very soft; no odor; very moist; (ML)	1.4	
	5	2	75				CL	Silty CLAY with trace gravel; no visible impact; firm; no odor; moist; (CL)	11.4	6,0-7,0'
							CL	Silty CLAY; light brown; no visible impact; soft; slight to moderate odor; moist; (CL)	15.9	
730	4-8	3	100				CL	Silty CLAY with some fine grained sand; light greenish gray; black staining (residual); strong odor; moist; (CL)	4.3	
							CL	Silty with some clay and sand; light greenish gray; no visible impact; soft; no odor; moist; (ML)	2.7	
	10	4	100				TL	- 0.5" sand seam, fine to medium grained; light black residual staining; moderate odor; moist to very moist	4.0	
725	8-12	5	100				TL	Sand with trace CLAY, medium to coarse grained; light gray to gray; no visible impact; slight odor; wet; (SC)	2.0	
	15	6	100				TL	13.0' SAND with trace CLAY; grayish green; intermittent residual black staining; moderate odor; wet; (SC)	8.1	21,0-22,0'
720	15-18	7	100				TL	Sandy CLAY; light brownish gray; no visible impact; soft; slight odor; moist; (SC)	7.0	
	20	8	100					- stiff to hard; slight odor	11.0	
	25	9	100					SILT with some clay, fine grained sand, and gravel; light gray; no visible impact; very stiff; slight odor; damp; (TILL)	15.6	
715	18-21	6	100					SAND with trace clay and silt; no visible impact; no odor; (SC)	5.7	
	25	8	100					Sandy CLAY, medium to coarse, some silty and gravel; no visible impact; very stiff to hard; no odor; moist; (CL)	13.0	
	30	9	100					- slight odor	4.7	
	30	9	100					Silty CLAY with coarse sand and gravel, few cobbles; light gray; no visible impact; very stiff; very slight odor; damp; (CL)		
	30	9	100					- no odor		
705	27-30	9	100					Termination of boring at 30.0' on 4/2/08		

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-830

Project Name: IP - Champaign Former MGP	Elevation: 737.55'	Datum:
Project Number: 62403053	Coordinate X: 1012532.24	Coordinate Y: 1257417.02
Location: Off-Site (West side of 5th Street)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 04/03/08	Date Completed: 04/03/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: L. Hoosier	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	80				FI	Silty CLAY with coal and concrete fragments; dark brown; no visible impact; no odor; slightly damp; (FILL)	0.6	2.0-3.0'
730	5-10	2	80				CL	CLAY with some silt; light brown; no visible impact; medium stiff; no odor; damp; (CL) CLAY with some fine grained sand; light brown; no visible impact; very soft; no odor; moist; (CL) - 0.5' sand seam; wet	0.7 0.6 0.4	
725	10-14	3	100					SAND; light brown; no visible impact; no odor; wet (saturated); (SW)	0.7 0.9	8.0-8.5'
720	14-18	4	100				TL	Silty CLAY; light brown with light gray mottling; no visible impact; soft; no odor; wet; (CL) - moist - trace gravel and sand; very slight hydrocarbon-like odor	0.5 0.6	
715	18-22	5	100					Silty CLAY with trace gravel and fine grained sand; no visible impact; very stiff; no odor; damp; (TILL) - soft; moist	0.7 0.9 0.6 0.7	28.0-30.0'
710	22-26	6	50					Silty CLAY with trace gravel and fine grained sand; no visible impact; medium stiff; no odor; moist; (CL)	0.8 0.9 1.1 0.0	
705	26-30	7	100						0.3 0.4	
700	30							Termination of boring at 30.0' on 4/3/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-831

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.44'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012532.27</b>	Coordinate Y: <b>1257487.85</b>
Location: <b>Off-Site (West side of 5th Street)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/03/08</b>	Date Completed: <b>04/03/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	60				FI	Silty CLAY with some coal fragments; dark brown; no visible impact; no odor; damp; (FILL)	0.5 0.3	1.0-3.0'
730	5-10	2	100				CL	CLAY; light brown; no visible impact; medium stiff; no odor; damp; (CL) SAND with trace clay; light brown, no visible impact; no odor; wet; (SC) - slight odor - moderate MGP-like staining, moderate odor Sandy CLAY; light brown; moderate to heavy staining (MGP-like); soft; wet; (CL)	0.4 0.5 0.9 3.1 158	9.0-10.0'
725	10-14	3	100				TL	Sand with trace clay; greenish gray; heavily impacted from 11.0-12.0', saturated with coal tar-like substance; very strong coal tar-like odor 12.0-13.0' Silty CLAY with gravel; yellowish brown; coal tar-like substance in voids and fractures; strong coal tar-like odor	87 61.5 21.2 98.6 9.2	10.5-12.0'
720	14-18	4	100				TL	Silty CLAY with gravel; gray; no visible impact; very stiff; slight coal tar-like odor, (TILL)	5.6 7.9 8.6 5.9	18.0-20.0'
715	18-22	5	100				TL	- very slight odor	4.2 2.1 2.1 7.0	
710	22-26	6	100				TL	- no odor		
705	26-30	7	100				TL	- soft	0.7	
700								Termination of boring at 30.0' on 4/3/08	0.7	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-832

Project Name: IP - Champaign Former MGP	Elevation: 737.10'	Datum:
Project Number: 62403053	Coordinate X: 1012532.30	Coordinate Y: 1257538.46
Location: Off-Site (West side of 5th Street)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 04/04/08	Date Completed: 04/04/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: R. Huson	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	72				FI	Silty clayey FILL with tree roots, gravel and coal-fragments; no visible impact; hydrocarbon-like odor (at 2.0'), damp; (FILL)	0.0	2.0-3.0'
730	5-10	2	95				CL	- slight hydrocarbon-like odor Silty CLAY; light yellowish brown; no visible impact; no odor; moist; (CL)		7.0-8.0'
725	10-14	3	100					- soft - 10.0-11.0' sand seam, water saturated Silty CLAY with gravel; yellowish brown mottled with gray; no visible impact; no odor; moist; (CL)		11.0-12.0'
720	14-18	4	85				TL	- material stiffens  Silty CLAY with gravel; gray; no visible impact; no odor; (TILL)		
715	18-22	5	100							
710	22-26	6	100							
705	26-30	7	100							
700								Termination of boring at 30.0' on 4/4/08	0.0	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-833

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>738.55'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012607.20</b>	Coordinate Y: <b>1257527.24</b>
Location: <b>Northwest Corner of Site</b>	Total Depth: <b>33.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/02/08</b>	Date Completed: <b>04/02/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-4	1	50				FI	Brick, concrete, and coal fragments, some silty clay; (FILL)	1.0	2.0-3.0'
730	4-8	2	63					Sand, brick and coal fragments; (FILL)	2.0 3.5	
725	8-12	3	100				CL	- moderate staining, moderate odor Silty CLAY; light greenish gray; coal tar-like substance in voids-stringers; stiff; strong odor; damp; (CL)	25.5 23.1 35.9 62.1 68.2 84.6	9.0-10.0' 10.0-12.0'
720	12-15	4	100					- coal tar-like substance in voids and fractures; very stiff; strong odor	137 185 59.5 21.3 20.7	
715	15-18	5	100				TL	Silty CLAY with light gray and light brown motting; no visible coal-tar like stringers; very stiff; moderate odor; damp; (CL)	19.0 5.9 15.9	
710	18-21	6	63					- occasional gravel and coarse sand	2.6 2.9 1.5	
705	21-24	7	100					Sandy CLAY with trace gravel and medium grained sand; light gray; no visible impact; stiff; slight odor; damp; (CL)	23.3 3.7 3.5 2.7	
700	24-27	8	100					Sandy CLAY with some silt and trace fine gravel; light gray; no visible impact; very stiff to very hard; slight odor; damp; (CL)	15.3 6.5 4.5 3.6 2.8	26.0-27.0'
695	27-30	9	100					- coal tar-like globule-not throughout, strong odor	6.6 69.1 11.4	
690	30-33	10	100					Silty CLAY with some gravel and fine grained sand; light brown; no visible impact; very hard; slight odor; dry to damp; (CL)	5.8 1.8 1.6 1.7	
685								- medium stiff, no odor	1.5	31.0-32.0'
680								Sandy CLAY; light gray; no visible impact; no odor; moist; (CL)	1.4	
								Termination of boring at 33.0' to avoid punching through TILL, on 4/2/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-834

Project Name: IP - Champaign Former MGP	Elevation: 737.24'	Datum:
Project Number: 62403053	Coordinate X: 1012531.30	Coordinate Y: 1257599.39
Location: Off-Site (Northwest Corner)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 04/04/08	Date Completed: 04/04/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: R. Huson	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	93				FI	SILT with trace clay, some gravel, coal fragments, and trace organics (roots); dark brown; no visible impact; no odor; damp; (FILL) - coal fragments/color change to greenish gray - diesel-like odor - 5.0-6.0' FILL material	1.1 1.3 1.5 1.3 1.5 19.4	1.0-2.0'
730	5-10	2	93				CL	Silty CLAY with trace gravel; greenish gray; no visible impact; stiff; strong diesel-like odor, damp; (CL) - 0.5' sand and gravel seam	13.1 24.0 20.0 8.1 14.0 12.1 5.0	6.0-7.0'
725	10-14	3	100				TL	- 14.0-17.5' tar-like nodules Silty CLAY with gravel; greenish gray; tar-like nodules; stiff; strong coal tar-like odor; moist; (CL)	7.3 7.8 31.0	11.5-12.5'
720	14-18	4	100					- color change to gray; coal tar-like odor - 18.0-19.0' slight diesel-like odor - 20.0' no odor	36.0 66.0 20.0 4.3 2.7 2.0	15.0-16.0'
715	18-22	5	100							
710	22-26	6	100							
705	26-30	7	100							
700								Termination of boring at 30.0' on 4/4/08	2.0	

Remarks:



# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-835

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>739.52'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012633.42</b>	Coordinate Y: <b>1257525.10</b>
Location: <b>Northwest Corner of Site</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/02/08</b>	Date Completed: <b>04/02/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	5							0.0 to 18.0' Undifferentiated overburden (see boring B-503)		
730	10									
725	15									
720	20	1 18-21	100				CL	Sandy CLAY with trace silt and gravel; light brownish gray; no visible impact; soft; slight to moderate odor; moist; (CL)	9.2	
715	25	2 21-24	100				TL	Silty CLAY with trace fine grained sand and gravel; no visible impact; stiff; very slight odor; damp; (CL)	7.8	
710	30	3 24-27	100					- no odor	3.8	
		4 27-30	100					- some sand; slight odor; very hard	1.8	
								- stiff; very slight odor	6.9	
								- coal tar-like substance in voids and fractures; strong odor	7.6	
									20.1	
									13.1	28.0-28.5
									71.0	
									9.6	
								Termination of boring at 30.0' on 4/3/08		
705	35									
700	40									
695	45									
690	50									
685	55									
680										

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-836

**Project Name:** IP - Champaign Former MGP

**Elevation:** 737.11'

**Datum:**

**Project Number:** 62403053

**Coordinate X:** 1012452.04

**Coordinate Y:** 1257581.87

**Location:** Off-Site (Northwest Corner)

**Total Depth:** 30.00'

**Borehole Dia.:** 2.00in

**Date Started:** 04/08/08

**Date Completed:** 04/08/08

**Section/Township/Range:**

**Consultant:** PSC

**Drilled By:** PSC

**Logged By:** L. Hoosier

**Drilling Method:** GeoProbe

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	100				FI	Cinders, brick fragments, gravel, some silty clay; dark brown; no visible impact; loose; no odor; (FILL)	0.2	1.5-2.5'
							CL	Silty CLAY with roots; dark brown; no visible impact; stiff; no odor; moist; (FILL)	0.8	
730	5-10	2	100				CL	Silty CLAY; dark brown; no visible impact; strong diesel-like odor; moist; (CL)	0.7	9.0-10.0'
							SC	- some sand - very strong diesel-like odor; gray - 0.5' sand seam; moist SAND with trace clay; brown; lightly impacted; strong diesel-like odor; saturated; (SW)	4.2	
725	10-14	3	100				SC	- sheen and strong odor from 10.0-11.5' - 13.0-14.0' moderate diesel-like odor - very slight diesel-like odor	12.2	
							TL	Silty CLAY; light brown; no visible impact; slight odor; wet; (CL)	144	
720	14-18	4	100				TL	- 0.5' sand seam Silty sandy CLAY with gravel; light brown; no visible impact; stiff; very slight odor in sand; moist; (CL)	236	
								Silty CLAY with gravel; brownish gray; no visible impact; stiff; no odor; moist; (TILL)	115	
								- 0.5' sand seam	288	
715	18-22	5	100						538	25.0-26.0'
									635	
									32.4	
									7.6	
									6.1	
									5.6	
									3.2	
710	22-26	6	100						2.9	25.0-26.0'
									2.4	
									2.5	
									7.7	
									3.6	
									2.8	
									1.8	
705	26-30	7	100						2.1	25.0-26.0'
									2.9	
									3.5	
									2.8	
									2.4	
700										
695										
690										
685										
680										

**Remarks:**

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-837

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>735.66'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012508.00</b>	Coordinate Y: <b>1257691.45</b>
Location: <b>Off-Site (Northwest Corner)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/14/08</b>	Date Completed: <b>04/14/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0	1 0-5	50				FI	Silty CLAY trace cinders and gravel; dark brown; no visible impact; stiff; no odor; damp; (FILL)		0.5-2.0'
730	5	2 5-10	80				CL	CLAY; yellowish brown; no visible impact; soft; no odor; moist; (CL)	1.0 0.3 0.5 0.7 0.9	
725	10	3 10-14	100				TL	SAND with trace clay; no visible impact; no odor; wet; (SC) SAND, medium to coarse grained; light brown; no visible impact; no odor; wet-saturated; (SP)	1.0 0.9 0.8	9.0-10.0'
720	15	4 14-18	100				TL	Sandy CLAY, trace sand and gravel; light brown; no visible impact; soft; no odor; wet; (CL) Sandy CLAY with trace sand and gravel; no visible impact; stiff; no odor; damp; (TILL) Silty CLAY with trace sand and gravel; no visible impact; stiff to hard; no odor; damp; (TILL)	1.0 0.8 0.7	12.0-13.0'
715	20	5 18-22	100					Silty, sandy CLAY; gray; no visible impact; hard; no odor; damp; (TILL)	0.6 0.7 0.5 0.7	
710	25	6 22-26	100					- very little recovery - 12.0" wet sand; approximately 10.0" sandy CLAY, gray, hard, (TILL)	0.6	
705	30	7 26-30	100					Silty CLAY with trace gravel; gray; no visible impact; medium stiff; no odor; moist; (TILL)	0.6 0.7	
700	35							Termination of boring at 30.0' on 4/14/08	0.6 0.8	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-838

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.35'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012532.21</b>	Coordinate Y: <b>1257447.94</b>
Location: <b>Off-Site (West side of 5th Street)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/04/08</b>	Date Completed: <b>04/04/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	93				FI	Silty, clay, FILL with coal fragments; dark brown; no visible impact; no odor; (FILL)	0.4	1.0-2.0'
						CL	Silty CLAY with trace gravel; yellowish brown; no visible impact; stiff; no odor; moist; (CL)	0.6		
730	5-10	2	77				CL	Silty, sandy CLAY; yellow brown; no visible impact; soft; no odor; moist; (CL) - changes to silty CLAY	0.4 0.5 0.7 0.3	9.0-10.0'
								- changes to sandy CLAY	0.6 0.7	
725	10-14	3	100				CL	Silty CLAY; yellowish brown grading to greenish gray (at 14.0')	0.5 0.5	
720	14-18	4	100				TL	Silty SAND; greenish gray; moderate impact; strong coal tar-like odor; moist; (SP) - 13.5-14.0' moderate impact - 14.0-15.0' heavily impacted	1.2 7.6 314	15.0-16.0'
						TL	15.0'- silty CLAY with gravel; gray; no visible impact; strong coal tar-like odor; moist; (CL)	76.5 30.6		
715	18-22	5	100					- no odor	3.0 2.5	29.0-30.0'
								- 2.0" fall-in, sandy CLAY; impacted at top of sample	1.2 1.1	
710	22-26	6	100					- 3.0" fall-in, sandy CLAY; impacted at top of sample	1.4 24.7 11.1	
									22.5 7.9	
									8.6 6.4 2.6	
705	26-30	7	100					Termination of boring at 30.0' on 4/4/08	2.4 2.6	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-839

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.87'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012515.81</b>	Coordinate Y: <b>1257446.52</b>
Location: <b>Off-Site (West side of 5th Street)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/14/08</b>	Date Completed: <b>04/14/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	77				FI CL	Silty CLAY/topsoil; dark brown; no visible impact; stiff; no odor; damp; (FILL) Silty CLAY; light yellowish brown; no visible impact; no odor; damp; (CL)	0.3 0.2 0.3	2.0-3.0'
730	5-10	2	100					Silty CLAY with sand; light yellowish brown; no visible impact; medium stiff; no odor; moist; (CL)	0.2 0.9 0.2 0.4 0.9	6.0-7.0'
725	10-14	3	100				TL	SILT; yellowish brown; no visible impact; stiff; no odor; moist; (ML)	0.9 0.3 0.6 0.6	
720	14-18	4	100				TL	SILT with intermittent fine grained sand layers, less than 1.0"; no visible impact; stiff; no odor; damp; (ML) CLAY; gray; no visible impact; soft; no odor; moist; (CL) SILT; gray; no visible impact; medium stiff; no odor; moist; (ML) - sand, wet-saturated	0.5 0.4	16.0-17.0'
715	18-22	5	100					Silty CLAY; gray; no visible impact; stiff; no odor; damp; (TILL)  - sandy; medium stiff	0.6 0.4 0.6	
710	22-26	6	100					- 2.0-3.0" sand seam	0.5	
705	26-30	7	100					Termination of boring at 30.0' on 4/14/08	0.7	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-840

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.09'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012495.20</b>	Coordinate Y: <b>1257474.84</b>
Location: <b>Off-Site (West side of 5th Street)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>04/15/08</b>	Date Completed: <b>04/15/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	80				FI	Silty CLAY with roots and trace gravel; dark brown; no visible impact; medium stiff; no odor; moist; (FILL) SILT with trace clay; light brown; no visible impact; stiff; no odor; damp; (ML)	0.2	10-07
730	5-10	2	77				CL	Sandy CLAY; light brown, no visible impact; medium stiff; no odor; moist; (CL) - 4.0" sand seam; wet	0.1	70-07
725	10-14	3	100				TL	SILT with trace fine grained sand; light brownish gray; no visible impact; soft; no odor; wet; (ML) - at 9'10" a 0.5" sand/gravel seam - wet	0.2	
720	14-18	4	100				TL	SAND with trace clay; light brown; wet - sand, wet - saturated	0.3	
715	18-22	5	100				TL	SILT; light brown; no visible impact; medium stiff; no odor; wet; (ML) - grades to silty CLAY, gray with trace gravel (FILL) at 14.0'	0.2	
710	22-26	6	100					- gray; stiff	0.1	
705	26-30	7	100					Silty CLAY trace gravel; gray; no visible impact; stiff to hard; very slight coal tar-like odor; damp; (TILL) - no odor - stiff, no odor	0.2	10-07
700								- hard; some gravel	0.4	
695								- no odor	0.2	
690									0.1	
685									0.3	
680									0.4	
								Termination of boring at 30.0' on 4/15/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-843

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.57'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012732.71</b>	Coordinate Y: <b>1257623.55</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/06/08</b>	Date Completed: <b>05/06/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	78				FI CL	Topsoil; Silty CLAY; dark brown; no visible impact; medium stiff; no odor; damp; (FILL) Silty CLAY, some plasticity; yellowish brown; no visible impact; medium dense; no odor; damp; (CL)	0.0	2.0-3.0'
730	5-10	2	100					- same as above with gravel and sand; moist		7.0-8.0'
725	10-14	3	100					- 10.0' - 10.3' sand seam; wet		10.0-11.0'
720	14-18	4	100				TL	- color change to light gray Silty CLAY with sand and gravel; no visible impact; stiff; no odor; damp; (TILL)		
715	18-22	5	100					Silty CLAY with sand and gravel; no visible impact; medium stiff to stiff; no odor; damp; (TILL)		
710	22-26	6	100							
705	26-30	7	100							
705	30							Termination of boring at 30.0' on 5/6/08	0.0	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-844

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.56'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012778.04</b>	Coordinate Y: <b>1257606.36</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/06/08</b>	Date Completed: <b>05/06/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	80				FI	Silty CLAY with trace gravel, coal cinders, and roots; dark brown; no visible impact; stiff; no odor; damp; (FILL)	18.2	1.0-2.0'
	5						CL	CLAY; light brownish yellow; no visible impact; medium stiff; no odor; moist; (CL)	4.5	
730	5-10	2	80				SC	- some sand and gravel; soft; moist  - 2.0" sand seam, wet - medium stiff		8.0-9.0'
725	10-14	3	75				TL	Sand with some silt; light brown; no visible impact; very soft; no odor; wet-saturated; (SP) - slight coal tar-like odor at 11.5'	0.6	
720	14-18	4	75				TL	Silty CLAY with some sand and gravel; light brown; no visible impact; stiff; slight coal tar-like odor; damp; (CL) - 4.0" sand; light brown	21.7	15.0-16.0'
715	18-22	5	100				TL	Silty, sandy CLAY with some gravel; gray; coal tar-like substance in voids and fractures; stiff; strong coal tar-like odor; damp; (TILL)	63.6	
710	22-26	6	100				TL	Silty CLAY; gray; no visible impact; stiff to hard; moderate coal tar-like odor; damp; (CL)	36.8	
705	26-30	7	100				TL	- slight odor Sandy CLAY; gray; no visible impact; medium stiff; very slight coal tar-like odor, damp to moist; (CL) - no odor	34.1	
700							TL	- 2.0" sand seam at 29.5'; moist	16.3	
695							TL	Termination of boring at 30.0' on 5/6/08	5.8	
690							TL		2.8	
685							TL		1.6	
680							TL		1.0	
							TL		0.9	
							TL		2.1	
							TL		6.1	
							TL		0.3	
							TL		0.1	

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-845

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.39'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012782.12</b>	Coordinate Y: <b>1257649.91</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/06/08</b>	Date Completed: <b>05/06/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-2	1	100				FI		0.0	0.0-2.0'
	2-4	2	100				CL	Silty CLAY; light brown; no visible impact; medium stiff; no odor; moist; (CL)		2.0-4.0'
730	4-5	3	100					- color change to yellowish gray		6.0-7.0'
	5-10	4	93					Silty CLAY with sand and gravel; yellowish gray; no visible impact; medium stiff to stiff; no odor; wet; (CL)		
725	10-14	5	96				TL	- 3.0" sand, wet		13.0-14.0'
	14-18	6	100					Silty CLAY with gravel and sand; gray; no visible impact; stiff; no odor; moist; (CL)		
720	18-22	7	100					Silty CLAY with gravel and sand; gray; no visible impact; medium stiff to stiff; no odor; damp; (TILL)		
715	22-26	8	100					- 2.0-3.0" sand seam		
710	26-30	9	100							
705								Termination of boring at 30.0' on 5/6/08	0.0	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-846

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>735.78'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012846.53</b>	Coordinate Y: <b>1257567.34</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/07/08</b>	Date Completed: <b>05/07/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	20				FI	No recovery 0.0-3.0'		
730	5-10	2	100				CL	Silty CLAY with gravel, cinders, and brick fragments; dark brown; no visible impact; medium stiff; no odor; damp; (FILL) CLAY; greenish gray; no visible impact; soft; slight coal tar-like odor, moist; (CL) - coal tar-like substance - strong odor	0.9 0.7 1.3	8.5-9.5'
725	10-14	3	100				TL	SAND with some clay, gravel, and sand; brownish black; sheen; very soft; strong coal tar-like odor; wet - saturated; (SC)	10.7 4.8	10.0-11.0'
720	14-18	4	100				TL	Silty CLAY with some gravel; light brownish gray; no visible impact; medium stiff; slight odor; moist; (TILL)	1.3 3.4 3.1	
715	18-22	5	100				TL	Silty CLAY with some sand and gravel; greenish gray grading to gray; no visible impact; stiff; slight coal tar-like odor; damp; (TILL)	20.8 17.6 16.9	20.0-21.0'
710	22-26	6	100				TL	Silty CLAY with gravel and sand; gray; no visible impact; slight odor; moist; (TILL)  - no odor	18.4 10.7 0.9	
705	26-30	7	100				TL	- 0.5" sand seam; moist - 1.5" sand seam; moist - at 25.10' 1.0" sand seam Silty CLAY with some sand and gravel; gray; no visible impact; no odor; moist; (CL)	1.1 0.9 0.8 0.7	
700							TL	- soft and moist	0.6	
695								Termination of boring at 30.0' on 5/7/08		

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-847

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.12'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012794.16</b>	Coordinate Y: <b>1257648.36</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/07/08</b>	Date Completed: <b>05/07/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	20				CL	Poor recovery		
730	5-10	2	100				CL	Silty CLAY; yellowish brown; no visible impact; medium stiff; no odor; moist; (CL) - wood fragments at 5.0' - silt layer, 3.0" thick; wet		6.0-7.0'
725	10-14	3	100				CL	Silty CLAY; yellowish gray; no visible impact; medium stiff; no odor; moist; (CL) - soft; wet		
720	14-18	4	100				TL	- faint odor from 14.0-`16.0' - 2.0" sand - no odor		
715	18-22	5	100				TL	Silty CLAY; gray; no visible impact; very stiff; no odor; damp; (TILL) - 2.0-3.0" sand seam with coal tar-like substance (18.5-19.0') - stiff clay	0.5 21.6 86.6	
710	22-26	6	100				TL	- 6.0" gravel seam with clay - 22.0-23.0' sand and gravel seam; coal tar-like substance, 5.0" wet-saturated; strong odor	10.5 60.1 22.9 12.6 8.4	22.0-23.0'
705	26-30	7	100				TL	Silty CLAY with gravel; gray; no visible impact; slight coal tar-like odor; (TILL) - slight odor	6.0 1.8 1.7	29.0-30.0'
700								- very faint odor	1.5 1.3	
695								Termination of boring at 30.0' on 5/7/08		

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-848

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.27'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012858.91</b>	Coordinate Y: <b>1257602.02</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/07/08</b>	Date Completed: <b>05/07/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735							FI	No recovery 0.0-2.0'		
730	5						CL	Silty CLAY some brick fragments, gravel, and roots; dark brown; medium stiff; no odor; moist; (FILL)		2.0-3.0'
725	10							Silty CLAY; brown grading to light brwon with red and orange mottling; no visible impact; soft; no odor; moist; (CL)	0.3	
								- very soft; trace sand; moist	0.4	
								10.0-12.0' - no recovery	0.3	9.0-10.0'
								Silty CLAY; light brownish yellow; no visible impact; very soft; no odor; wet; (CL)	0.4	
								- sand from 13.0-14.0'	0.3	13.0-14.0'
								14.0-16.0' - no recovery		
							TL	SAND with some silt; light gray; no visible impact; very soft; no odor; wet; (SC)		
								Silty CLAY with gravel; light brownish gray; no visible impact; medium stiff; no odor; moist; (TILL)		
								Silty CLAY with gravel; light brownish gray; no visible impact; medium stiff to stiff; no odor; moist; (TILL)	0.0	
								22.0-26.0' - no recovery		
								Silty CLAY with gravel; gray; no visible impact; medium stiff; no odor; damp; (TILL)		
								Termination of boring at 30.0' on 5/7/08		

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-849

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>737.29'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012829.64</b>	Coordinate Y: <b>1257622.86</b>
Location: <b>Off-Site (North Center of Site)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/07/08</b>	Date Completed: <b>05/07/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	47				FI	Silty CLAY with trace roots and gravel; dark brown; no visible impact; medium stiff; no odor; moist; FI		0.0-1.0'
730	5-10	2	80				CL	CLAY; light brown; no visible impact; soft; no odor; moist; CL - some orange mottling - medium stiff Sandy CLAY; light brown with orange mottling; no visible impact; very soft; no odor; wet; CL; sand seam at 8.5'	0.7 0.6 0.7	9.0-10.0'
725	10-14	3	75				TL	Sandy CLAY; light brown; no visible impact; very soft; no odor; wet-saturated Silty CLAY with some gravel; light brown; no visible impact; medium stiff; no odor; moist; TI	0.6 0.7	
720	14-18	4	100					- slight coal tar-like odor - color grades to gray - coal tar-like substance, 16.0-17.0' - strong odor - strong odor at 18.0'	0.6 0.7 1.0 27.2	16.0-17.0'
715	18-22	5	94					Silty CLAY with some gravel; gray; no visible impact; stiff; slight odor; TI 19.0' - SILT; gray; no visible impact; soft; no odor; wet; ML	5.6 2.2 1.4	
710	22-26	6	94					Silty CLAY with gravel; no visible impact; stiff; no odor; moist; TI  - 0.5" sand seam; wet	1.8 0.8 0.6	
705	26-30	7	100					Sandy CLAY with some gravel; gray; no visible impact; stiff; no odor; damp; CL  - silty CLAY Termination of boring at 30.0' on 5/7/08	0.7	

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-850

Project Name: IP - Champaign Former MGP	Elevation: 735.41'	Datum:
Project Number: 62403053	Coordinate X: 1012861.91	Coordinate Y: 1257545.14
Location: Off-Site (North Center of Site)	Total Depth: 30.00'	Borehole Dia.: 2.00in
Date Started: 05/08/08	Date Completed: 05/08/08	Section/Township/Range:
Consultant: PSC	Drilled By: PSC	
Logged By: L. Hoosier	Drilling Method: GeoProbe	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735		1 0-5	33				FI	No recovery from 0.0-3.0'	0.0	
730	5	2 5-10	100				CL	Silty CLAY with gravel, concrete fragments, roots and cinders; dark brown; no visible impact; medium stiff; no odor; moist; (FILL) CLAY; light greenish brown; no visible impact; soft; no odor; moist; (CL) - 2.0" gravel grading to sandy CLAY, greenish gray; soft; wet - trace gravel; slight coal tar-like odor - stiff; more gravel (TILL)		8.0-9.0'
725	10	3 10-14	75				TL	Silty, sandy CLAY; greenish brown; no visible impact; very soft; slight coal tar-like odor; wet; saturated at 12.0'		
720	15	4 14-18	75					Silty CLAY with gravel; light brown; slight sheen at 14.0'; stiff; moderate coal tar-like odor; damp; (CL) Silty CLAY with gravel; light brown; coal tar-like substance at 14.5'; medium stiff; strong coal tar-like odor; (TILL) - 4.0" sand lens; coarse; heavily impacted-saturated; very strong odor Silty CLAY with gravel; gray; no visible impact; stiff; coal tar-like odor; damp; (TILL) - 18.5' coal tar-like substance in cracks; strong to moderate odor, hard, moist, gray TILL	7.5 58.0 32.7 74.6 22.3 2.0	16.0-17.0'
715	20	5 18-22	100					- very slight odor	2.8	
710	25	6 22-26	100					Sandy CLAY with gravel; gray; sheen 1.0"; soft; wet - no visible impact 24.0-26.0' - slight odor	3.0 4.1 1.4	25.0-26.0'
705	30	7 26-30	100					Silty CLAY with gravel; gray; no visible impact; no odor; damp; (TILL)	1.2 0.0	
700	35							Termination of boring at 30.0' on 5/8/08		
695	40									
690	45									
685	50									
680	55									

Remarks:

# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-851

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.87'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012832.51</b>	Coordinate Y: <b>1257708.03</b>
Location: <b>Off-Site (Along Washington Street)</b>	Total Depth: <b>34.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/09/08</b>	Date Completed: <b>05/09/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>L. Hoosier</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735								0.0-10.0' not logged, used pervious data		
730	5									
725	10	1 10-14	100				TL	Silty CLAY with gravel; light brown; no visible impact; medium stiff; no odor; damp; (TILL) - gray	0.0	
720	15	2 14-18	100					Silty CLAY with gravel and sand; gray; no visible impact; stiff; no odor; damp; (TILL)		14.0-16.0'
715	20	3 18-22	100					- wood fragments		19.0-20.0'
710	25	4 22-26	100					Silty CLAY with gravel; gray; no visible impact; stiff; no odor; damp; (TILL) - medium stiff, moist		
705	30	5 26-30	100					Silty CLAY with gravel; gray; no visible impact; medium stiff; no odor; moist; (TILL)		
700	35	6 30-34	100					- 3.0" sand seam; coarse; gray; dense; wet Silty CLAY with gravel; gray; no visible impact; medium stiff to stiff; no odor; moist; (TILL)	0.0	
695	40							Termination of boring at 34.0 on 5/9/08		
690	45									
685	50									
680	55									

Remarks:

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# RECORD OF SUBSURFACE EXPLORATION



BOREHOLE/MONITORING WELL/PROBEHOLE/TEST PIT ID:

## B-852

Project Name: <b>IP - Champaign Former MGP</b>	Elevation: <b>736.44'</b>	Datum:
Project Number: <b>62403053</b>	Coordinate X: <b>1012788.63</b>	Coordinate Y: <b>1257707.32</b>
Location: <b>Off-Site (Along Washington Street)</b>	Total Depth: <b>30.00'</b>	Borehole Dia.: <b>2.00in</b>
Date Started: <b>05/09/08</b>	Date Completed: <b>05/09/08</b>	Section/Township/Range:
Consultant: <b>PSC</b>	Drilled By: <b>PSC</b>	
Logged By: <b>R. Huson</b>	Drilling Method: <b>GeoProbe</b>	

Elevation (feet)	Depth (feet)	Sample No. (Depth Interval)	Recovery Percent	Recovery	Graphic Log	Water Level	USCS Code	Material Description	PID/OVM Reading (ppm)	Lab Sample
735	0-5	1	75				HI	Topsoil with roots	0.0	
							CL	Silty CLAY; yellowish brown with gray; no visible impact; medium stiff; no odor; moist; (CL)		2.0-3.0'
730	5-10	2	80					- trace gravel Silty CLAY with gravel; yellowish gray; no visible impact; medium stiff to stiff; no odor; moist; (CL)		
725	10-14	3	100				TL	- yellowish gray - color change to gray (TILL) - very stiff		9.0-10.0'
720	14-18	4	100					Silty CLAY with sand and gravel; gray; no visible impact; stiff; no odor; moist; (TILL)		
715	18-22	5	100					- changes to medium stiff 18.0' - Silty CLAY with gravel and sand; gray; no visible impact; stiff; no odor; moist; (TILL) - sample stuck in tube (fully recovered)		
710	22-26	6	100							23.0-24.0'
705	26-30	7	100					- stiff - 1.0" moist to wet - moist		
705								Termination of boring at 30.0' on 5/9/08	0.0	

Remarks:

Page 1 of 1

## APPENDIX G

### Physical Testing Laboratory Data

Tested by: CMB  
 Computed by: PC  
 Checked by: CMB

SPECIFIC GRAVITY TEST ASTM D 854

PROJECT NO. 62403053 DATE 05/20/08

FLASK NO.	8	8	8	8
BORING	B-845	B-845	B-851	B-851
SAMPLE NO.	--	--	--	--
DEPTH (feet)	0.5 - 1.0	2.5 - 3.0	14.5 - 15.0	19.5 - 20.0
TARE NO.	24	4	32	4
DRY + TARE, g	154.56	156.02	157.80	159.44
TARE, g	107.95	109.73	108.12	109.73
OVEN DRY SOIL, g	46.61	46.29	49.68	49.71
SAMPLE TEMP., °C	19.5	18.7	18.5	20.0
SAMPLE+PYCNOMETER, g	693.09	694.06	696.34	696.13
DRY PYCNOMETER, g	166.10	166.10	166.10	166.10
VOLUME PYCNOMETER, mL	499.40	499.40	499.40	499.40
DENSITY OF WATER @ °C	0.99831	0.99847	0.9985	0.99821
WATER+PYCNOMETER @ °C, g	664.66	664.74	664.75	664.61
SPECIFIC GRAVITY @ °C	2.564	2.728	2.746	2.733
K @ °C	1.0001	1.00026	1.0003	1
SPECIFIC GRAVITY @ 20° C	2.565	2.729	2.747	2.733

POROSITY WORKSHEET CALCULATION

Va = Volume of air  
 Vw = Volume of water  
 Vv = Volume of voids  
 Vd - Volume of dry soil  
 V = Total volume  
 Ma = Mass of air (=0)  
 Mw = Mass of water  
 Md = Mass of dry soil  
 M = Total mass

VOLUME OF VOIDS	VOIDS		MASS
	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	TOTAL	M

JOB NO.: 62403053  
 BORING NO.: B-845  
 DEPTH (Feet): 0.5-1.0

	VOIDS (cc)		MASS (gms)
	56.38	AIR	0.00
289.16	232.78	WATER	232.78
	282.81	SOIL	725.41
	571.97	TOTAL	958.19

Height 5.332 in.  
 Diameter 2.887 in.  
 Weight 958.19 gms  
 Volume 571.97 cc

Specific Gravity = 2.565

Void Ratio (e) = Vv/Vd = 1.022

DENSITY WET 104.6 pcf 1.68 g/cc  
 DENSITY DRY 79.2 pcf 1.27 g/cc

Porosity (n) = Vv/V

Wet + Tare 155.96 gms  
 Dry + Tare 130.67 gms  
 Tare 51.86 gms

Total = 0.51 50.6 %  
 Air Filled = 0.10 9.9 %  
 Water Filled = 0.41 40.7 %

MC, % 32.1

Porosity values not representative of effective porosity.

Va = Volume of air  
 Vw = Volume of water  
 Vv = Volume of voids  
 Vd - Volume of dry soil  
 V = Total volume  
 Ma = Mass of air (=0)  
 Mw = Mass of water  
 Md = Mass of dry soil  
 M = Total mass

VOLUME OF VOIDS	VOIDS		MASS
	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	TOTAL	M

JOB NO.: 62403053  
 BORING NO.: B-845  
 DEPTH (Feet): 2.5-3.0

	VOIDS (cc)		MASS (gms)
	10.95	AIR	0.00
192.54	181.59	WATER	181.59
	222.96	SOIL	608.45
	415.49	TOTAL	790.04

Height 3.933 in.  
 Diameter 2.865 in.  
 Weight 790.04 gms  
 Volume 415.49 cc

Specific Gravity = 2.729

Void Ratio (e) = Vv/Vd = 0.864

DENSITY WET 118.7 pcf 1.90 g/cc  
 DENSITY DRY 91.4 pcf 1.46 g/cc

Porosity (n) = Vv/V

Wet + Tare 154.70 gms  
 Dry + Tare 130.83 gms  
 Tare 50.85 gms

Total n = 0.46 46.3 %  
 Air Filled = 0.03 2.6 %  
 Water Filled = 0.44 43.7 %

MC, % 29.8

Porosity values not representative of effective porosity.

POROSITY WORKSHEET CALCULATION

Va = Volume of air  
 Vw = Volume of water  
 Vv = Volume of voids  
 Vd - Volume of dry soil  
 V = Total volume  
 Ma = Mass of air (=0)  
 Mw = Mass of water  
 Md = Mass of dry soil  
 M = Total mass

VOLUME OF VOIDS	VOIDS		MASS
	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	TOTAL	M

JOB NO.: 62403053  
 BORING NO.: B-851  
 DEPTH (Feet): 14.5-15.0

	VOIDS (cc)		MASS (gms)
	4.49	AIR	0.00
127.02	122.53	WATER	122.53
	376.00	SOIL	1032.86
	503.02	TOTAL	1155.39

Height 4.805 in.  
 Diameter 2.852 in.  
 Weight 1155.39 gms  
 Volume 503.02 cc

Specific Gravity = 2.747

DENSITY WET 143.4 pcf 2.30 g/cc  
 DENSITY DRY 128.2 pcf 2.05 g/cc

Void Ratio (e) = Vv/Vd = 0.338

Wet + Tare 166.52 gms  
 Dry + Tare 155.21 gms  
 Tare 59.87 gms

Porosity (n) = Vv/V  
 Total = 0.25 25.3 %  
 Air Filled = 0.01 0.9 %  
 Water Filled = 0.24 24.4 %

MC, % 11.9

Porosity values not representative of effective porosity.

Va = Volume of air  
 Vw = Volume of water  
 Vv = Volume of voids  
 Vd - Volume of dry soil  
 V = Total volume  
 Ma = Mass of air (=0)  
 Mw = Mass of water  
 Md = Mass of dry soil  
 M = Total mass

VOLUME OF VOIDS	VOIDS		MASS
	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	TOTAL	M

JOB NO.: 62403053  
 BORING NO.: B-851  
 DEPTH (Feet): 19.5-20.0

	VOIDS (cc)		MASS (gms)
	2.21	AIR	0.00
119.76	117.56	WATER	117.56
	367.63	SOIL	1004.73
	487.40	TOTAL	1122.29

Height 4.633 in.  
 Diameter 2.859 in.  
 Weight 1122.29 gms  
 Volume 487.40 cc

Specific Gravity = 2.733

DENSITY WET 143.7 pcf 2.30 g/cc  
 DENSITY DRY 128.7 pcf 2.06 g/cc

Void Ratio (e) = Vv/Vd = 0.326

Wet + Tare 165.98 gms  
 Dry + Tare 155.32 gms  
 Tare 64.21 gms

Porosity (n) = Vv/V  
 Total n = 0.25 24.6 %  
 Air Filled = 0.00 0.5 %  
 Water Filled = 0.24 24.1 %

MC, % 11.7

Porosity values not representative of effective porosity.

**DENSITY TESTS**

Project No. 62403053

Technician CUB

Date 05/19/08

BORING NO.	B-845	B-845	B-851	B-851				
SAMPLE NO.	--	--	--	--				
DEPTH	0.5-1.0	2.5-3.0	14.5-15	19.5-20				
JAR NO.	(2)	(2)	(2)	(2)				
DESCRIPTION	(4) V. DK Gr CL Bricks, Brick Frag Fill	(2) Gr-Br CL	(5) Gr CL w/so Tr Gr	(4) Gr CL w/so Tr Gr				
HEIGHT (inches)	5.332	<del>3.933</del> 3.933	4.805	4.633				
DIAMETER (inches)	2.887	2.865	2.852	2.859				
WEIGHT (grams)	988.19	790.04	1155.39	1122.29				
K								
DENSITY WET	104.6	118.7	143.4	143.7				
DENSITY DRY	79.2	91.4	128.2	128.7				
PR								
<b>MOISTURE CONTENT</b>								
TARE NO.	16	12	10	2				
WET WEIGHT + TARE	155.96	154.70	144.52	165.98				
DRY WEIGHT + TARE	130.67	130.83	155.21	155.32				
WATER								
TARE	5186	5085	5987	6421				
SOIL								
% WATER	32.1	29.8	11.9	11.7				

Computed By PC

Checked By CUB

SPECIFIC GRAVITY TEST

Project No. G2403053

Date 05/20/08

Flask No.	8=166.10	8	8	8		
Boring	B-845	B-845	B-851	B-851		
Depth	0.5-1.0	2.5-3.0	14.5-15	19.5-20		
Material						
T <sub>x</sub> /K	19.5°C	18.7°C	18.5°C	20.0°C		
Container No.	24	4	32	4		
W <sub>o</sub> + Tare	154.56	156.00	157.80	159.44		
Tare	107.95	109.73	108.12	109.73		
W <sub>o</sub>						
W <sub>a</sub>						
W <sub>o</sub> + W <sub>a</sub>						
W <sub>b</sub>	693.09	694.06	696.34	696.13		
W <sub>o</sub> + (W <sub>a</sub> - W <sub>b</sub> )						
G <sub>s</sub> (Uncorrected)						
G <sub>s</sub> , $\frac{T_x}{20C}$ (Corrected)	2.565	2.729	2.747	2.733		

- T<sub>x</sub> = Temperature of contents of Volumetric Flask when W<sub>b</sub> was determined in °C
- W<sub>o</sub> = Weight of sample of oven-dry soil in grams
- W<sub>a</sub> = Weight of Volumetric Flask filled with water at T<sub>x</sub>
- W<sub>b</sub> = Weight of Volumetric Flask filled with water and soil at T<sub>x</sub>
- K = Correction Factor for water at T<sub>x</sub>

Tested by: CMB  
 Computed by: PC  
 Checked by: CMB