

**COMMONWEALTH EDISON COMPANY**

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**Will County Generating Station  
529 East Romeo Road  
Romeoville, Illinois**

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**ENSR  
Consulting \* Engineering \* Remediation**

**December 1998  
File Number 1801-023-710**

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529 East Romeo Road  
Romeoville, Illinois

December 7, 1998

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**TABLE OF CONTENTS**

	<u>Page</u>
<b>EXECUTIVE SUMMARY</b> .....	1
<b>1.0 INTRODUCTION</b> .....	3
1.1 General .....	3
1.2 Objectives and Scope .....	3
1.3 Report Organization .....	4
1.4 Limitations .....	4
<b>2.0 INVESTIGATION METHODS</b> .....	6
2.1 Sampling Methods .....	8
2.1.1 Sediment Sampling .....	9
2.1.2 Surface Soil Sampling .....	9
2.1.3 Soil Borings and Subsurface Soil Sampling .....	9
2.1.4 Monitoring Wells and Groundwater Sampling .....	10
2.2 Monitoring Well Gauging and Survey .....	10
2.3 Equipment Decontamination .....	10
<b>3.0 INVESTIGATION FINDINGS</b> .....	12
3.1 Sediment .....	12
3.2 Surface Soil .....	13
3.3 Subsurface Soil .....	14
3.4 Groundwater .....	14
<b>4.0 DATA ASSESSMENT</b> .....	16
4.1 Extent of Contamination .....	16
4.1.1 Sediment .....	16
4.1.2 Surface Soil .....	17
4.1.3 Subsurface Soil .....	18
4.1.4 Groundwater .....	19
4.2 Potential Contaminant Exposure Pathways .....	20
4.2.1 Soil Ingestion .....	20
4.2.2 Soil Inhalation .....	20
4.2.3 Groundwater Ingestion .....	21

**LIST OF TABLES**

- TABLE 1:** Analyses Summary  
**TABLE 2:** Analytical Results – Sediment  
**TABLE 3:** Analytical Results – Surface Soil  
**TABLE 4:** Analytical Results – Subsurface Soil  
**TABLE 5:** Analytical Results – Groundwater

**LIST OF FIGURES**

- FIGURE 1:** Site Location Map  
**FIGURE 2:** Site Plan  
**FIGURE 3:** ~~Sediment Sampling Site Plan~~  
**FIGURE 4:** Surface Soil Sampling Site Plan  
**FIGURE 5:** Soil Boring/Monitoring Well Site Plan  
**FIGURE 6:** Groundwater Elevation Map
- 

**LIST OF APPENDICES**

- APPENDIX A:** Boring Logs and Monitoring Well Construction Diagrams  
**APPENDIX B:** Analytical Reports  
**APPENDIX C:** Monitoring Well Gauging and Survey Data



## EXECUTIVE SUMMARY

This report presents the results of the Phase II Environmental Site Assessment (Phase II ESA) conducted by ENSR Corporation (ENSR) in October 1998 at the Commonwealth Edison Company (ComEd) Will County Generating Station, located at 529 East Romeo Road in Romeoville, Illinois. Phase II ESA activities consisted of advancement of soil borings, installation of monitoring wells, and collection of surface and subsurface soil, sediment, and groundwater samples. The purpose of the Phase II ESA was to investigate the potential presence of contamination in the areas of environmental concern identified in the Phase I Environmental Site Assessment (Phase I ESA).

Based on the results of the Phase I ESA, 15 potential areas of concern were identified for further investigation. These areas of concern are identified in **Section 2.0**. Each of these areas of concern were investigated during the Phase II ESA activities. Eighteen soil borings were advanced and 5 monitoring wells were installed. Soil samples were collected from the borings and groundwater samples were collected from the monitoring wells. In addition, 23 surface soil samples and 14 sediment samples were collected at the facility.

These samples were submitted for analysis of benzene, toluene, ethyl benzene, and total xylenes (BTEX) using EPA Method 8260; polynuclear aromatic hydrocarbons (PNAs) using EPA Method 8310; polychlorinated biphenyls (PCBs) using EPA Method 8081; Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) using EPA Method series 6000 and 7000; and pH using EPA Method 9045.

In addition, the surface soil samples and sediment samples were also submitted for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015. Water quality field parameters, consisting of pH, specific conductivity, and temperature, were also recorded from the groundwater samples collected.

PNA constituents were detected above the Illinois Environmental Protection Agency (IEPA) cleanup objectives primarily in the surface soil samples collected at the facility. These surface soil samples were collected directly from a "stained" location in the identified potential areas of concern. Therefore, it was determined that the impact from these PNA constituents is relatively localized. However, PNA constituents were detected in soil samples collected from borings at approximately 3 feet below grade.

Arsenic was detected above the IEPA cleanup objective of 3 milligrams per kilogram (mg/kg) in samples collected throughout the facility. However, the concentrations of arsenic are within the range of arsenic detected by the EPA during a state wide soil survey in 1992. Lead was detected above the IEPA cleanup objective of 400 mg/kg in the sediment sample collected from the northern coal pile runoff pond, and in the surface soil samples collected from the surge hopper, areas surrounding the chimneys/precipitators, and stained transformers. In addition, chromium was detected above the IEPA cleanup objective of 420 mg/kg in the sediment sample collected from the northern coal pile runoff pond.

PCBs were detected above the IEPA cleanup objective of 1 mg/kg in samples collected from stained transformers, ash disposal area, coal handling area, and materials storage areas on the west side of the main building. The PCBs were only detected in the first 3 feet of soil.

It should be noted that TPH was detected throughout the site. Although a cleanup objective has not been established by the IEPA, TPH was detected at elevated concentrations (greater than 1,000 mg/kg) and would indicate impact by petroleum hydrocarbon compounds.

Based on the relatively low volatility of the constituents of concern detected above the IEPA cleanup objectives, the soil inhalation exposure pathway is not a likely contaminant exposure pathway. In addition, based on the facility's location immediately adjacent to two bodies of water, it is unlikely that the impacted groundwater beneath the facility would have any impact on these wells. Therefore, the groundwater ingestion is not a potential contaminant exposure pathway. However, emulsified oil droplets and an oil sheen were encountered during groundwater sampling activities in the vicinity of the ignition fuel and diesel fuel aboveground storage tanks (ASTs) located to the south of the coal pile.

The soil ingestion pathway is a potential exposure pathway during construction activities. Therefore, this pathway would need to allow for protection/prevention for the construction worker scenario.

Based on the current land use (industrial) and site conditions (analytical results and near surface bedrock), it is judged that the potential for human exposure to the constituents of concern from this facility is low. It should be noted that there is no requirement under Illinois environmental law to further investigate or remediate this property.

## 1.0 INTRODUCTION

### 1.1 General

ENSR Corporation (ENSR) was retained by Commonwealth Edison Company (ComEd) to conduct Phase II Environmental Site Assessment (Phase II ESA) activities on a "limited" portion of the 216 acre Will County Generating Station, located at 529 East Romeo Road in Romeoville, Illinois (**Figure 1, Site Location Map**).

The scope of the Phase II ESA activities were based on the preliminary results of the Phase I Environmental Site Assessment (Phase I ESA), with concurrence between ENSR and ComEd. Phase II ESA activities were conducted from October 15 to October 26, 1998, and included advancement of soil borings, installation of monitoring wells, and collection of surface and subsurface soil, sediment, and groundwater samples. **Figure 2** illustrates the layout of the facility.

### 1.2 Objectives and Scope

The purpose of the Phase II ESA was to investigate the potential presence of contamination in the areas of environmental concern identified in the Phase I ESA. The Phase II ESA adequately assessed the surface and/or subsurface conditions in the locations where sampling was conducted. The Phase II ESA is a tool for developing a conceptual site model to identify the presence and nature of potential contamination, describe potential contaminant migration pathways, and define potential exposure pathways in sampled areas. Based upon this and the information gathered during the Phase II ESA, and using the Illinois Environmental Protection Agency (IEPA) Tiered Approach to Cleanup Objectives (TACO) as guidance, it can be determined whether remediation is warranted in the locations sampled. The Phase II ESA alone is not an exhaustive investigation which can be used to determine the extent of contamination, nor the cost of any suggested remediation.

The objective of the Phase II ESA was to develop a conceptual site model to identify the presence and nature of potential contamination, describe potential contaminant migration pathways, and define potential exposure pathways. To meet this objective, ENSR implemented a "phased" assessment designed to provide increasing levels of information based upon obtained data. Recognizing that existing information for the facility and potential contamination was limited, the principal tasks completed during the Phase II ESA included the following:

- Soil boring advancement and soil sample collection;
- Monitoring well installation and groundwater sample collection;
- Collection of surface soil and sediment samples;
- ~~Laboratory analysis of samples; and,~~
- Evaluation of analytical results and comparison to the IEPA Tier 1 Industrial/Commercial Soil Cleanup Objectives and IEPA Tier 1 Groundwater Cleanup Objectives.

The investigation consisted of the advancement of 18 soil borings and the installation of 5 monitoring wells at the potential areas of concern identified during the Phase I ESA. Soil samples were collected from the borings and groundwater samples were collected from the monitoring wells. These samples were submitted for analysis of benzene, toluene, ethyl benzene, and total xylenes (BTEX) using EPA Method 8260, polynuclear aromatic hydrocarbons (PNAs) using EPA Method 8310, polychlorinated biphenyls (PCBs) using EPA Method 8081, Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) using EPA Method series 6000 and 7000, and pH by EPA Method 9045. Water quality field parameters, consisting of pH, specific conductivity, and temperature, were also recorded from the groundwater samples collected.

In addition, 23 surface soil samples were collected from the identified potential areas of concern and 14 sediment samples were collected from selected ash/coal settling ponds or drainage ditches located at the facility. These samples were submitted for analysis of the previously referenced constituents as well as total petroleum hydrocarbons (TPH) using EPA Method 8015.

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### 1.3 Report Organization

**Section 1** introduces the principal subjects covered in this report, describes the purpose and scope of the Phase II ESA, and presents limitations of the Phase II ESA. **Section 2** provides information regarding the identified potential areas of concern and the methodologies used during the investigation. **Section 3** presents the results of the Phase II ESA. **Section 4** presents the data assessment of the Phase II ESA. **Tables** summarizing the analytical results and **Figures** illustrating the facility location and layout, as well as sampling locations, have been included under the appropriate headings.

**Appendix A** contains laboratory analytical reports. **Appendix B** contains boring logs and monitoring well construction diagrams. **Appendix C** contains monitoring well gauging and survey data.

### 1.4 Limitations

This report, including all attachments thereto, describes the results of ENSR's Phase II ESA conducted at the Will County Generating Station, which took place between October 15 and October 26, 1998. Many of the facts and conditions pertaining to this Phase II ESA are subject to change over time; accordingly, the evaluations and conclusions must be viewed within this context.

ENSR has performed this Phase II ESA in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. ENSR shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this Phase II ESA was performed.

This report and all field data, notes, and laboratory test data (hereinafter collectively "Information") were prepared by ENSR solely for the benefit of ENSR's Client, ComEd. ENSR's Client may release this Information to third parties, who may use and rely upon the Information at their own discretion. However, any use of or reliance upon this Information by a party other than parties identified shall be solely at the risk of such third party and without legal recourse against ENSR, or its subsidiaries and affiliates, or their respective employees, officers or directors, regardless of whether the action in which recovery of damages is sought is based upon contract, tort (including the sole, concurrent or other negligence and strict liability of ENSR), statute or otherwise. This Information shall not be used or relied upon by a party which does not agree to be bound by the above statement.

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## 2.0 INVESTIGATION METHODS

Prior to initiation of field investigations, a site reconnaissance was performed during the Phase I ESA to define the study area. Field investigation activities were subsequently conducted to obtain site specific information and data pertaining to site geology and hydrogeology, groundwater quality, soil properties, and potential contaminant source(s).

The sampling locations were recommended based on the preliminary Phase I ESA findings. A sampling location summary listing is presented in **Table 1**. A summary of the identified potential areas of concern is presented below.

1. **Ash Disposal Areas.** Three ash disposal areas are located on the southern portion of the facility. These areas are used to store ash prior to having it transported off-site. Two soil borings (B-1 and B-2) were advanced and one monitoring well (MW-1) was installed in the southeastern ash disposal area. Two soil borings were (B-3 and B-4) were advanced in the southwestern ash disposal area. One surface soil sample (S-1) was collected in the western ash disposal area by the Ash Settling Ponds.
2. **Stormwater Runoff Ponds.** There are 3 ponds at the facility which collect surface stormwater runoff. The ponds are located to the south of the main building and construction offices. One sediment sample (X-6) was collected from the pond located to the southwest of the construction offices. One sediment sample (X-7) was collected from the pond located to the south of the construction offices. One sediment sample (X-13) was collected from the pond located to the west of the construction offices.
3. **Ash Settling Ponds.** There are 4 ponds at the facility which are used to collect ash wastewater. The ponds are located on the western portion of the facility. One sediment sample (X-3) was collected from the southern pond, and one sediment sample (X-4) was collected from the pond directly north of the southern pond. In addition, one soil boring (B-5) was advanced and one monitoring well (MW-2) was installed between these two southern ponds. One sediment sample (X-5) was collected from the northern pond. One sediment sample (X-8) was collected from the pond located to the north of the Sluice Water Pump Building.
4. **Former Sulfur Dioxide Scrubber Ponds.** A former sulfur dioxide scrubber system was previously located in the southwestern corner of the facility. Two ponds associated with this former system are located to the south of the Ash Settling Ponds. One sediment sample (X-1) was collected from the western pond, and one sediment sample (X-2) was collected from the eastern pond.
5. **Sluice Water Pumping Area.** A Sluice Water Pump Building and Sluice Water Retention Pond, which are used to recycle sluice water back into the system, are located to the north of the southern Ash Settling Ponds. One surface soil sample (S-24) was collected on the west side of the building, and one sediment sample (X-14) was collected

from the pond.

6. **Sewage Treatment Plant.** A Sewage Treatment Plant is located to the north of the northern Ash Settling Pond. One soil boring (B-6) was advanced.
7. **Coal Handling Equipment.** Coal is received at the facility via barges on the Chicago Sanitary & Ship Canal located on the eastern end of the facility. The coal is stored at the coal pile at the northeastern corner of the facility. One soil boring (B-7) was advanced at the Car Dumper, which is located to the northeast of the Sewage Treatment Plant. One soil boring (B-9) was advanced to the southwest of the coal pile beneath an overhead conveyor from the Car Dumper. One surface soil sample (S-8) was collected at the Surge Hopper, which is located adjacent to the Chicago Sanitary & Ship Canal.
8. **Coal Pile Runoff Ponds/Ditches.** Two coal pile runoff ponds are located to the west of the coal pile. One sediment sample (X-9) was collected from the southern pond, and ~~one sediment sample (X-10) was collected from the northern pond.~~ In addition, one soil boring (B-8) was advanced and one monitoring well (MW-3) was installed. Two coal pile runoff ditches are also located to the west of the coal pile. One sediment sample (X-11) was collected from the western ditch and one sediment sample (X-12) was collected from the eastern ditch.
9. **Demineralized Water Aboveground Storage Tanks.** Two aboveground storage tanks (ASTs), used for the storage of demineralized water, are located at the northwestern corner of the facility. One soil boring (B-18) was advanced.
10. **Materials Storage Areas.** There are four materials storage areas located at the facility. One storage area is located to the north of the Coal Handling Tractor Garage, which is south of the coal pile. The primary concern at this storage area was drum storage. One surface soil sample (S-5) was collected and one soil boring (B-11) was installed. The second storage area is located near the southeast corner of the Switch Yard. The primary concern at this storage area was former drum storage. One soil boring (B-15) was advanced. The third storage area is located to the west of the Electric Shop, which is located on the west side of the main building. The primary concern at this storage area was drum storage. One soil boring (B-16) was advanced. The fourth storage area is located at the northeastern corner of the Switch Yard. The primary concern at this storage area was drum storage. One soil boring (B-17) was advanced and one surface soil sample (S-22) was collected.
11. **Oil/Water Separator.** One oil/water separator is located to the west of the main building and to the south of the fourth identified Materials Storage Area. One surface soil sample (S-21) was collected.
12. **Transformers.** Transformers with oil staining were observed throughout the facility. Soil samples were collected in 5 locations with the most significant staining. The first location contains the transformers on the west side of the Wastewater Treatment Plant,

which is located to the south of the coal runoff ponds. One surface soil sample (S-2) was collected. The second location contains the transformers on the north side of the Breaker House, which is located to the south of the coal pile. One surface soil sample (S-6) was collected. The third location contains the transformers to the north of the northern Crib House, which is located to the east of the main building. Two surface soil samples (S-9 and S-10) were collected. The fourth location contains the transformers to the south of the northern Crib House. One surface soil sample (S-11) was collected. The fifth location contains the transformers to the south of the Electric Shop, which is on the west side of the main building. Three surface soil samples (S-18 through S-20) were collected.

13. **Chimneys/Precipitators.** Two chimney units are located on the east side of the main building. Surface staining from the precipitator equipment was observed. Five surface soil samples (S-12 through S-16) were collected. In addition, one soil boring (B-13) was advanced and one monitoring well (MW-4) was installed to the south of the southern chimney.
14. **Gasoline Underground Storage Tank.** One 1,500 gallon underground storage tank (UST) is located at the northeast corner of the main building. This UST is used for the storage of gasoline. One soil boring (B-12) was advanced.
15. **Petroleum ASTs.** There are six ASTs located at the facility, which are used for the storage of petroleum products. Two of these ASTs have capacities of 12,500 gallons and are used for the storage of ignition fuel, and the third AST has a 15,000 gallon capacity is used for the storage of diesel fuel. A diesel fuel dispenser system is also located adjacent to these ASTs. One soil boring (B-10) was advanced and one monitoring well (MW-5) was installed. In addition, two surface samples (S-3 and S-4) were collected adjacent to the diesel fuel dispenser system. Two diesel ASTs are located to the west of the construction offices. One soil boring (B-14) was advanced and one surface soil sample (S-17) was collected. One diesel AST is located at the Emergency Diesel Generator Building, which is located to the south of the coal pile. One surface soil sample (S-7) was collected.

## 2.1 Sampling Methods

All soil (surface and subsurface), sediment, and groundwater samples collected were submitted for analysis of BTEX and PNA constituents using EPA Methods 8260 and 8310, respectively, PCBs using EPA Method 8081, RCRA metals using EPA Method series 6000 and 7000, and pH by EPA Method 9045. In addition, surface soil and sediment samples were submitted for TPH using EPA Method 8015. A sample summary listing is presented in **Table 1**.

~~The sample glassware used to contain the samples retained for laboratory analysis were provided pre-cleaned from National Environmental Laboratories, Inc. (NET) of Bartlett, Illinois. Each sample was labeled with the project number, project location, client, sample number, sample depth, date, time, and requested analysis. The soil samples were stored on ice in the~~



field in a cooler and shipped via courier under chain-of-custody to NET. Standard chain-of-custody procedures were maintained from the time of sample collection until delivery to the analytical laboratory.

### **2.1.1 Sediment Sampling**

Fourteen sediment samples (X-1 through X-14) were collected at the facility. The sediment sample locations are illustrated on **Figure 3**. Sediment samples were collected using a stainless steel hand shovel. All sampling equipment was decontaminated between each sediment sample location using the procedure outlined in **Section 2.3**.

### **2.1.2 Surface Soil Sampling**

Twenty-three surface soil samples (S-1 through S-22 and S-24) were collected at the facility. The surface soil sample locations are illustrated on **Figure 4**. Surface soil samples were collected using a stainless steel hand shovel. All sampling equipment was decontaminated between each sediment sample location using the procedure outlined in **Section 2.3**.

### **2.1.3 Soil Borings and Subsurface Soil Sampling**

Eighteen soil borings (B-1 through B-18) were advanced at the facility. The soil borings locations are illustrated on **Figure 5**. The soil borings were advanced by Fox Drilling, Inc. (Fox) of Itasca, Illinois, utilizing Geoprobe direct-push drilling techniques. The soil borings were advanced to a maximum depth of 3 feet below grade. All soil borings were backfilled with soil cuttings, and completed at surface grade with the appropriate material (i.e., concrete, asphalt). All sampling equipment was decontaminated between each soil boring location using the procedure outlined in **Section 2.3**.

Soil samples were collected by advancing by a hydraulically-driven stainless steel pre-probe. Soil samples were collected using a 2.0-inch diameter acetate lined soil sampler. Soil samples were continuously collected from the surface to the bottom of the soil borings. The soil samples were visually inspected and field classified using the general guidelines of the Unified Soil Classification System (USCS) and the American Society for Testing and Materials (ASTM) Test Method ASTM D2488 for soil classification.

Each soil sample was field screened for the presence of VOCs using a photoionization detector (PID) and standard headspace screening methods. The PID readings indicate relative levels of VOCs in the vapor headspace, but do not represent actual concentrations which may exist in the soil. The PID has a detection range of 1.0 part per million volume (ppmv) to 2,500 ppmv. The soil sample which exhibited the highest PID reading, or if no PID readings were detected, from directly above the field-interpreted groundwater level, was retained from each boring for laboratory analysis.

#### **2.1.4 Monitoring Wells and Groundwater Sampling**

Five monitoring wells (MW-1 through MW-5) were installed at the facility. The monitoring well locations are illustrated on **Figure 5**. The monitoring wells were installed by Fox utilizing hollow-stem augers and rotary drilling techniques. When bedrock was encountered, the monitoring wells were completed using rotary wash rock coring techniques. The monitoring wells were installed to a maximum depth of 12 feet below grade. Fluids generated during monitoring well installation and groundwater sampling were discharged to the ground surface in proximity to each sampling location. All sampling equipment was decontaminated between each soil boring location using the procedure outlined in **Section 2.3**.

The monitoring wells were installed through the working space within hollow stem augers. The monitoring wells were constructed of 2-inch diameter Schedule 40 PVC 0.010-inch slotted continuous wrap well screen and solid riser. A filter pack consisting of clean silica sand was placed surrounding the well screen to filter out fine soil particles from the formation adjacent to the screen. The filter pack extends from the bottom of the soil boring to approximately 1-foot above the top of the well screen. A bentonite pellet seal was placed on top of the sand pack and hydrated with distilled water to prevent surface water infiltration. The annular space above the bentonite seal was filled with a neat bentonite and cement grout to approximately 6-inches below grade. The monitoring wells were completed at grade and an 8-inch diameter steel protective road box was placed over each monitoring well and set in concrete at grade. The monitoring wells were capped with expandable well caps and equipped with locks to prevent unauthorized access. A monitoring well construction diagram is included in **Appendix A**.

After the installation of the monitoring wells, approximately three to five well volumes of groundwater was removed from each monitoring well, or until the groundwater was relatively free from sediment, using a peristaltic pump. One groundwater sample was collected from each monitoring well and submitted for laboratory analysis. In addition, water quality field parameters consisting of pH, specific conductivity, and temperature were measured and recorded during sample collection.

#### **2.2 Monitoring Well Gauging and Survey**

Each monitoring well was gauged using an electronic interface probe in order to determine the presence or absence of liquid-phase hydrocarbons (LPHCs) and depth to groundwater. In addition, each monitoring well's top of casing and ground surface location was surveyed relative to an arbitrary benchmark assigned an elevation of 100 feet.

#### **2.3 Equipment Decontamination**

The drill rig and associated tooling, and sampling equipment were decontaminated prior to mobilization and before leaving the site. To minimize the potential for cross-

contamination, drilling and sampling equipment were decontaminated between each use. Decontamination of drilling equipment consisted of steam cleaning. Sampling equipment, including split spoons and stainless steel sampling equipment, were decontaminated before each use by washing with a solution of Alconox (phosphate based detergent) and potable water, and rinsing with distilled water. Decontamination fluids generated during equipment decontamination were discharged to the ground surface in proximity to each sampling location.

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### 3.0 INVESTIGATION FINDINGS

The findings of the subsurface investigation, soil and groundwater sampling, monitoring well gauging, survey, and chemical analysis, are presented below. Analytical results are summarized in **Table 2** through **Table 5**. The analytical reports and chain-of-custody forms are included in **Appendix B**.

Analytical results were compared against the cleanup objectives as presented in 35 Illinois Administrative Code (IAC) Section 742. Appendix B: Table B-Tier 1 Soil Remediation Objectives for Commercial/Industrial Properties, and 35 IAC Section 742. Appendix B: Table E-Tier 1 Groundwater Remediation Objectives for the Direct Ingestion of Groundwater Portion of the Groundwater Ingestion Route.

Soil analytical results for the RCRA metals are shown as totals. Therefore, the soil component of the groundwater ingestion exposure route has not been considered. In addition, the groundwater beneath the site is classified as Class I, therefore the Class I baseline was used.

#### 3.1 Sediment

**BTEX.** The analytical results indicated that BTEX constituents were not detected above the laboratory method detection limits.

**TPH.** The analytical results indicated that TPH as diesel was detected at concentrations ranging from 475 milligrams per kilogram (mg/kg) in sample X-12 to 16,700 mg/kg in sample X-11. TPH as oil was detected at concentrations of 434 mg/kg in sample X-8 and 2,750 mg/kg in sample X-7. However, cleanup objectives for TPH have not been established by the IEPA. TPH as gasoline was not detected above the laboratory method detection limits.

**PNAs.** The analytical results indicated that benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected in samples X-9 and X-12 at concentrations above the IEPA cleanup objectives. It should be noted that samples X-9, X-11, and X-12 had elevated detection limits due to matrix interference. These elevated detection limits are above the cleanup objectives for benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene, and consequently, there is a possibility that the concentrations are actually above the cleanup objectives. Refer to **Table 2** for PNA results.

**PCBs.** The analytical results indicated that PCBs were detected in the sediment samples collected. However, these concentrations were not above the IEPA cleanup objective of 1.0 mg/kg.

**Metals.** The analytical results indicated that arsenic, chromium, and lead were detected at concentrations above the IEPA cleanup objective of 3 mg/kg, 420 mg/kg, and 400 mg/kg, respectively. Arsenic was detected at concentrations ranging from 3.4 mg/kg in sample X-6 to 24 mg/kg in sample X-1. However, the concentrations of arsenic are within the range of arsenic

(0.35 mg/kg to 24 mg/kg) detected by the EPA during a state wide soil survey in 1992. Chromium and lead were detected in sample X-9 at a concentration of 680 mg/kg and 874 mg/kg, respectively.

**pH.** pH values ranged from 7.32 in sample X-7 to 10.22 in sample X-4.

Analytical results are summarized in **Table 2**, and sampling locations are illustrated on **Figure 3**. The analytical report and chain-of-custody forms are included in **Appendix B**.

### 3.2 Surface Soil

**BTEX.** The analytical results indicated that BTEX constituents were detected in the surface soil samples collected. However, these concentrations were not above the IEPA cleanup objectives.

**TPH.** The analytical results indicated that TPH as gasoline was detected at concentrations ranging from 224 mg/kg in sample S-15 to 292 mg/kg in sample S-14, and TPH as diesel was detected at concentrations ranging from 1,090 mg/kg in sample S-10 to 188,000 mg/kg in sample S-4. TPH as oil was detected at concentrations ranging from 110 mg/kg in sample S-1 to 933,000 mg/kg in sample S-5. However, cleanup objectives for TPH have not been established by the IEPA.

**PNAs.** The analytical results indicated that benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-c,d)pyrene were detected in samples S-5, S-9 through S-12, S-14 through S-16, S-18 through S-20, and S-22 at concentrations above the IEPA cleanup objectives. It should be noted that samples S-1 through S-8, S-13, and S-17 through S-19 had elevated detection limits due to matrix interference. These elevated detection limits are above the cleanup objectives for benzo (a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene, and consequently, there is a possibility that the concentrations are actually above the cleanup objectives. Refer to **Table 3** for PNA results.

**PCBs.** The analytical results indicated that PCBs were detected at concentrations above the IEPA cleanup objective of 1.0 mg/kg. These concentrations ranged from 1.48 mg/kg in sample S-6 to 7.52 mg/kg in sample S-2.

**Metals.** The analytical results indicated that arsenic and lead were detected at concentrations above the IEPA cleanup objectives of 3 mg/kg and 400 mg/kg, respectively. Arsenic was detected at concentrations ranging from 3.8 mg/kg in sample S-17 to 23 mg/kg in sample S-18. However, the concentrations of arsenic are within the range of arsenic (0.35 mg/kg to 24 mg/kg) detected by the EPA during a state wide soil survey in 1992. Lead was detected at concentrations ranging from 496 mg/kg in sample S-16 to 1,130 mg/kg in sample S-8 and S-10.

**pH.** pH values ranged from 5.78 in sample S-2 to 9.94 in sample S-3.

Analytical results are summarized in **Table 3**, and sampling locations are illustrated on **Figure 4**. The analytical report and chain-of-custody forms are included in **Appendix B**.

### 3.3 Subsurface Soil

Bedrock was encountered at approximately 1 foot to 3 feet below grade. Fill material, consisting of coal ash and gravel, was the primary material encountered above the bedrock. Native soil was encountered in B-18 and consisted of a light brown silty clay to bedrock at 3 feet below grade. Soil boring logs are included in **Appendix A**.

The PID readings obtained from the soil samples collected ranged from 1.1 ppmv in B-5 (0 to 1 feet below grade) to 51.8 ppmv in B-10 (0 to 1 feet below grade). The PID field screening results are recorded on the boring logs in **Appendix A**.

**BTEX.** The analytical results indicated that BTEX constituents were detected in the subsurface soil samples collected. However, these concentrations were not above the IEPA cleanup objectives.

**PNAs.** The analytical results indicated that benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were detected in B-2, B-12, B-13, and B-15 through B-17 at concentrations above the IEPA cleanup objectives. It should be noted that B-7, B-9 through B-11, B-13, and B-16 had elevated detection limits due to matrix interference. These elevated detection limits are above the cleanup objectives for benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene, and consequently, there is a possibility that the concentrations are actually above the cleanup objectives. Refer to **Table 4** for PNA results.

**PCBs.** The analytical results indicated that PCBs were detected at concentrations above the IEPA cleanup objective of 1.0 mg/kg. These concentrations ranged from 1.1 mg/kg in B-1 to 41.3 mg/kg in B-11.

**Metals.** The analytical results indicated that arsenic was detected at concentrations above the IEPA cleanup objective of 3 mg/kg. Arsenic was detected at concentrations ranging from 3.9 mg/kg in B-11 to 11 mg/kg in B-17. However, the concentrations of arsenic are within the range of arsenic (0.35 mg/kg to 24 mg/kg) detected by the EPA during a state wide soil survey in 1992.

**pH.** pH values ranged from 7.79 in B-9 to 9.44 in B-8.

Analytical results are summarized in **Table 4**, and soil boring locations are illustrated on **Figure 5**. The analytical report and chain-of-custody forms are included in **Appendix B**.

### 3.4 Groundwater

The groundwater elevations ranged from 3.6 feet in MW-3 to 8.95 feet in MW-4. LPHC was not detected in any of the monitoring wells. However, emulsified oil droplets and an oil sheen were



encountered in MW-5 during groundwater sampling activities. Based on the gauging data, the apparent groundwater flow direction beneath the facility has been calculated to be to the east (**Figure 6, Groundwater Elevation Map**). Monitoring well gauging data is included in **Appendix C**.

Water quality field parameters consisting of pH, specific conductivity, and temperature were measured. The recorded measurements are summarized in **Table 5**.

**BTEX.** The analytical results indicated that benzene was detected at a concentration above the IEPA cleanup objective of 0.005 milligrams per liter (mg/l) in MW-5. Benzene was detected at a concentration of 0.031 mg/l.

**PNAs.** The analytical results indicated that naphthalene was detected at a concentration above the IEPA cleanup objective of 0.025 mg/l in MW-5. Naphthalene was detected at a concentration of 0.46 mg/l. It should be noted that MW-5 had an elevated detection limit due to matrix interference. ~~These elevated detection limits are above the cleanup objectives for benzo(a)anthracene, benzo(b)fluoranthene, chrysene, and pyrene, and consequently, there is a possibility that the concentrations are actually above the cleanup objectives.~~

**PCBs.** The analytical results indicated that PCBs were not detected above the laboratory method detection limits.

**Metals.** The analytical results indicated that lead was detected at a concentration above the IEPA cleanup objective of 0.0075 milligrams per liter (mg/l). Lead was detected at a concentration of 0.0148 mg/l in MW-2. It should be noted that laboratory detection limit for cadmium was at 0.01 mg/l which is above the cleanup objective of 0.005 mg/l. Consequently, there is a possibility that the concentrations are actually above the cleanup objective.

Analytical results are summarized in **Table 5**, and monitoring well locations are illustrated on **Figure 5**. The analytical report and chain-of-custody forms are included in **Appendix B**.

## 4.0 DATA ASSESSMENT

### 4.1 Extent of Contamination

Based on the results of the subsurface investigation conducted, the following determinations and assessments were made regarding the extent of contamination at the facility. The following conclusions are subject to the Limitations presented in **Section 1.4**. In addition, although arsenic was detected above the IEPA cleanup objective, the concentrations of arsenic are within the range of arsenic detected by the EPA during a state wide soil survey in 1992. However, it should be noted that soil analytical results for the RCRA metals are shown as totals. Therefore, the soil component of the groundwater ingestion exposure route has not been considered.

#### 4.1.1 Sediment

Arsenic, chromium, lead, and PNA constituents listed as benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene, were the constituents of concern detected at concentrations above the IEPA cleanup objectives.

PNA constituents were detected above the IEPA cleanup objectives in the following locations:

- **Coal Pile Runoff Ponds.** The southern pond located west of the coal pile (X-9).
- **Coal Pile Runoff Ditches.** The western ditch located west of the coal pile (X-12).

It should be noted that due to matrix interference in samples X-9, X-11, and X-12, benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene had elevated detection limits. Consequently, there is a possibility that the concentrations are actually above the cleanup objectives. These samples were collected from the southern coal pile runoff pond (X-9), the eastern coal pile runoff ditch (X-11), and the western coal pile runoff ditch (X-12).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 24 mg/kg in the following locations:

- **Former Sulfur Dioxide Scrubber Ponds.** The western Former Sulfur Dioxide Scrubber Pond (X-1).
- **Ash Settling Ponds.** The three Ash Settling Ponds (X-3 through X-4) located south of the Sluice Water Pump Building and the one Ash Settling Pond (X-8) located north of the Sluice Water Pump Building.
- ~~**Stormwater Runoff Ponds.** The Stormwater Runoff Ponds (X-6 and X-7) located south and southwest of the construction offices.~~
- **Coal Pile Runoff Ponds.** The southern pond located west of the coal pile (X-9) and the northern pond (X-10). It should be noted that chromium and lead were also



detected above the IEPA cleanup objectives of 420 mg/kg and 400 mg/kg, respectively, in this area (X-10) at a maximum concentration of 680 mg/kg and 874 mg/kg, respectively.

- **Sluice Water Pumping Area.** The pond located at the Sluice Water Pumping Building (X-14).

#### 4.1.2 Surface Soil

Arsenic, lead, PCBs, and PNA constituents listed as benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-c,d)pyrene, were the constituents of concern detected at concentrations above the IEPA cleanup objectives.

PNA constituents were detected above the IEPA cleanup objectives in the following locations:

- **Materials Storage Areas.** Storage area located to the north of the Coal Handling Tractor Garage (S-5).
- **Transformers.** Transformers to the north of the northern Crib House (S-9 and S-10), transformers to the south of the northern Crib House (S-11), and transformers to the south of the Electric Shop, which is on the west side of the main building (S-18 through S-20).
- **Chimney/Precipitators.** Chimney unit located on the east side of the main building (S-12, and S-14 through S-16).

It should be noted that due to matrix interference in samples S-1 through S-8, S-13, and S-17 through S-19, benzo (a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene had elevated detection limits. Consequently, there is a possibility that the concentrations are actually above the cleanup objectives. These samples were collected from the Ash Disposal Area (S-1), transformers located on the west side of the Wastewater Treatment Plant (S-2), diesel AST dispenser system on the south side of the coal pile (S-3 and S-4), storage area north of the Coal Handling Tractor Garage (S-5), Emergency Diesel Generator Building (S-7), Surge Hopper (S-8), chimneys/precipitators (S-13), diesel ASTs located west of the construction offices (S-17), transformers to the south of the Electric Shop on the west side of the main building (S-18 and S-19).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 23 mg/kg in the following locations:

- **Ash Disposal Areas.** Western ash disposal area by the Ash Settling Ponds (S-1).
- **Transformers.** Transformers to the north of the northern Crib House (S-10), transformers to the south of the northern Crib House (S-11), and transformers to the south of the Electric Shop, which is on the west side of the main building (S-18 and S-20).
- **Chimney/Precipitators.** Chimney unit located on the east side of the main building (S-12 through S-16).

- **Petroleum ASTs.** Diesel ASTs located west of the construction offices (S-17).
- **Oil/Water Separator.** Oil/water separator is located to the west of the main building (S-21).
- **Materials Storage Areas.** Storage area is located at the northeastern corner of the Switch Yard. (S-22).

Lead was detected above the IEPA cleanup objective, at a maximum concentration of 1,130 mg/kg in the following locations:

- **Coal Handling Equipment.** Surge Hopper located adjacent to the Chicago Sanitary & Ship Canal (S-8).
- **Transformers.** Transformers to the north of the northern Crib House (S-10) and transformers to the south of the Electric Shop, which is on the west side of the main building (S-20).
- **Chimney/Precipitators.** Chimney unit located on the east side of the main building (S-14 and S-16).

PCBs were detected above the IEPA cleanup objective in the following locations:

- **Transformers.** Transformers located on the west side of the Wastewater Treatment Plant (S-2), transformers on the north side of the Breaker House, which is located to the south of the coal pile (S-6), and transformers to the south of the Electric Shop, which is on the west side of the main building (S-18).

It should be noted that due to matrix interference, samples S-5 and S-19 had elevated detection limits. Consequently, there is a possibility that PCB concentrations are actually above the cleanup objective of 1.0 mg/kg. These samples were collected from the storage area north of the Coal Handling Tractor Garage (S-5) and the transformers to the south of the Electric Shop on the west side of the main building (S-19).

#### 4.1.3 Subsurface Soil

Arsenic, PCBs, and PNA constituents listed as benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene, were the constituents of concern detected at concentrations above the IEPA cleanup objectives.

PNA constituents were detected above the IEPA cleanup objectives in the following locations:

- **Ash Disposal Areas.** The southeastern ash disposal area (B-2).
- **Gasoline UST.** The gasoline UST system (B-12).
- ~~Chimneys/Precipitators.~~ ~~South of the southern chimney (B-13).~~
- **Materials Storage Areas.** The storage area located near the southeast corner of the Switch Yard (B-15), the storage area located west of the Electric Shop (B-16), and the storage area located at the northeastern corner of the Switch Yard (B-17).

It should be noted that due to matrix interference in samples B-7, B-9 through B-11, B-13, and B-16, benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene had elevated detection limits. Consequently, there is a possibility that the concentrations are actually above the cleanup objectives. These samples were collected from the Car Dumper (B-7), beneath the overhead Car Dumper conveyor southwest of the coal pile (B-9), diesel fuel dispenser system south of the coal pile (B-10), storage area north of the Coal Handling Tractor Garage (B-11), south of the southern chimney (B-13), and storage area located west of the Electric Shop (B-16).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 11 mg/kg in the following locations:

- **Ash Disposal Areas.** The southeastern ash disposal area (B-1 and B-2) and the southwestern ash disposal area (B-3 and B-4).
- ~~**Ash Settling Ponds.** The Ash Settling Ponds south of the Sluice Water Pump Building (B-5).~~
- **Sewage Treatment Plant.** The Sewage Treatment Plant north of the northern Ash Settling Pond (B-6).
- **Coal Handling Equipment.** The Car Dumper (B-7) and beneath the overhead Car Dumper conveyor southwest of the coal pile (B-9).
- **Coal Pile Runoff Ponds.** The northern coal pile runoff pond (B-8).
- **Materials Storage Areas.** Storage area north of the Coal Handling Tractor Garage (B-11), the storage area located west of the Electric Shop (B-16), and the storage area located at the northeastern corner of the Switch Yard (B-17).
- **Gasoline UST.** The gasoline UST system (B-12).
- **Chimneys/Precipitators.** South of the southern chimney (B-13).
- **Demineralized Water ASTs.** The demineralized water ASTs at the northwestern corner of the facility (B-18).

PCBs were detected above the IEPA cleanup objective in the following locations:

- **Ash Disposal Areas.** The southeastern ash disposal area (B-1).
- **Coal Handling Equipment.** Beneath the overhead Car Dumper conveyor southwest of the coal pile (B-9).
- **Materials Storage Areas.** Storage area north of the Coal Handling Tractor Garage (B-11) and the storage area located west of the Electric Shop (B-16).

#### 4.1.4 Groundwater

Lead, benzene, and naphthalene were the constituents of concern detected at concentrations above the IEPA cleanup objectives. In addition, emulsified oil droplets and an oil sheen were encountered in MW-5 during groundwater sampling activities.

Benzene and naphthalene were detected above the IEPA cleanup objectives in the following locations:

- **Petroleum ASTs.** Diesel AST and dispenser system south of the coal pile (MW-5).

Lead was detected above the IEPA cleanup objective, at a maximum concentration of 0.0148 mg/l in the following locations:

- **Ash Settling Ponds.** The three Ash Settling Ponds located south of the Sluice Water Pump Building (MW-2).

It should be noted that laboratory detection limit for cadmium was at 0.01 mg/l which is above the cleanup objective of 0.005 mg/l. Consequently, there is a possibility that the concentrations are actually above the cleanup objective.

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## 4.2 Potential Contaminant Exposure Pathways

Based on the above-referenced assessment, potential exposure pathways by which humans may be exposed to the constituents of concern have been identified at the facility. Potential sources, fate and transport mechanisms, and exposure media were considered in determining these potential exposure pathways. An identified potential exposure pathway does not imply that exposure is occurring, only that the potential exists for exposure.

### 4.2.1 Soil Ingestion

The soil ingestion pathway includes the first three feet within ground surface. Therefore, based on the analytical results, soil ingestion is a potential contaminant exposure pathway. Soil ingestion occurs when soil containing elevated concentrations of the constituents of concern are ingested into the body. The facility is an industrial site and direct contact and ultimately ingestion of the impacted soil is not likely to occur. However, construction activities would increase the possibility of exposure. Therefore, this pathway would need to allow for protection/prevention for the construction worker scenario.

### 4.2.2 Soil Inhalation

The soil inhalation pathway includes the first ten feet within ground surface. However, bedrock was encountered at approximately 4 feet below grade. Therefore, based on the analytical results, soil inhalation is a potential contaminant exposure pathway. Soil inhalation occurs when elevated concentrations of the constituents of concern are inhaled into the body. However, the highly volatile constituents (i.e., BTEX, TPH as gasoline), were not detected at concentrations above the IEPA cleanup objectives. The constituents that were detected at concentrations above the IEPA cleanup objectives (i.e. metals, semi-volatiles, PCBs), are not considered highly volatile. Based on the relatively low volatility of the detected constituents of concern, this pathway would not likely be an effective exposure pathway.

### 4.2.3 Groundwater Ingestion

The groundwater ingestion pathway includes groundwater being used as a potable source of water. The Village of Romeoville receives its potable water via 10 municipal potable water supply wells. Based on the facility's location immediately adjacent to two bodies of water, it is unlikely that the impacted groundwater beneath the facility would have any impact on these wells.

Based on the current land use (industrial) and site conditions (analytical results and soil types), it is judged that the potential for human exposure to the constituents of concern from this facility is low. However, personnel working at the facility could be susceptible to exposure due to accidental soil ingestion due to activities such as construction. Such exposure may result from contact with contaminated subsurface or surface materials previously located beneath a protective barrier (i.e., concrete cap, building). Additionally, emulsified oil droplets and an oil sheen were encountered in MW-5 during groundwater sampling activities.

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There is no requirement under Illinois environmental law to further investigate or remediate this property.

**TABLES**

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**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Will County Generating Station  
529 East Romeo Road  
Romeoville, Illinois**

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Table 1

## Sampling Locations and Analyses Summary

Commonwealth Edison Company  
Will County Generating Station  
529 East Romeo Road  
Romeoville, Illinois

Page 1 of 2

Sampling Locations <sup>(1)</sup>	Sampling Parameters	Sampling Depth (in feet)	Date Collected
<b><u>Sediment Sample Identification</u></b>			
X-1	Former Sulfur Dioxide Scrubber Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/20/98
X-2	Former Sulfur Dioxide Scrubber Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/20/98
X-3	Ash Settling Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
X-4	Ash Settling Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
X-5	Ash Settling Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
X-6	Stormwater Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/20/98
X-7	Stormwater Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/20/98
X-8	Stormwater Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
X-9	Coal Pile Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
X-10	Coal Pile Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
X-11	Coal Pile Runoff Ditches	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
X-12	Coal Pile Runoff Ditches	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
X-13	Stormwater Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/20/98
X-14	Sluice Water Pumping Area	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA 10/19/98
<b><u>Boring Identification</u></b>			
B-1	Ash Disposal Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-3 10/15/98
B-2	Ash Disposal Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-3 10/15/98
B-3	Ash Disposal Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-4	Ash Disposal Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-2 10/15/98
B-5	Ash Settling Ponds	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-6	Sewage Treatment Plant	BTEX, PNAs, PCBs, RCRA metals, pH	0-2 10/15/98
B-7	Coal Handling Equipment	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-8	Coal Pile Runoff Ponds	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-9	Coal Handling Equipment	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-10	Petroleum ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-11	Materials Storage Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-12	Gasoline UST	BTEX, PNAs, PCBs, RCRA metals, pH	0-2 10/15/98
B-13	Chimneys/Precipitators	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-14	Petroleum ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-15	Materials Storage Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-16	Materials Storage Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-17	Materials Storage Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-1 10/15/98
B-18	Deminerlized Water ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-3 10/15/98

Table 1

## Sampling Locations and Analyses Summary

Commonwealth Edison Company  
Will County Generating Station  
529 East Romeo Road  
Romeoville, Illinois

Page 2 of 2

	Sampling Locations	Sampling Parameters	Sampling Depth (In feet)	Date Collected
<b>Surface Soil Sample Identification</b>				
S-1	Ash Disposal Areas	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-2	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-3	Petroleum ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-4	Petroleum ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-5	Materials Storage Areas	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-6	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-7	Petroleum ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-8	Coal Handling Equipment	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-9	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-10	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-11	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-12	Chimneys/Precipitators	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-13	Chimneys/Precipitators	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-14	Chimneys/Precipitators	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-15	Chimneys/Precipitators	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-16	Chimneys/Precipitators	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-17	Petroleum ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-18	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-19	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-20	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-21	Oil/Water Separator	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-22	Materials Storage Areas	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
S-24	Sluice Water Pumping Area	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/16/98
<b>Monitoring Well Sample Identification</b>				
MW-1 (B-2)	Ash Disposal Areas	BTEX, PNAs, PCBs, RCRA metals	NA	10/26/98
MW-2 (B-5)	Ash Settling Ponds	BTEX, PNAs, PCBs, RCRA metals	NA	10/26/98
MW-3 (B-8)	Coal Pile Runoff Ponds	BTEX, PNAs, PCBs, RCRA metals	NA	10/26/98
MW-4 (B-13)	Chimneys/Precipitators	BTEX, PNAs, PCBs, RCRA metals	NA	10/26/98
MW-5 (B-10)	Petroleum ASTs	BTEX, PNAs, PCBs, RCRA metals	NA	10/26/98

**Notes:**

BTEX was analyzed using EPA Method 8260.  
PNAs were analyzed using EPA Method 8310  
PCBs were analyzed using EPA Method 8081.  
RCRA metals were analyzed using EPA Method series 6000 and 7000.  
pH was measured using EPA Method 9045.

<sup>(1)</sup> Sampling locations are referenced in the Phase II Environmental Site Assessment Report in Section 2.0.



**Table 2**  
**Sediment Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	Sample I.D. Lab I.D. Sample Date	X-1 499082 10/20/98	X-2 499083 10/20/98	X-3 499073 10/19/98	X-4 499074 10/19/98	X-5 499075 10/19/98	X-6 499084 10/20/98	X-7 499085 10/20/98	IEPA Soil Cleanup Objectives
BTEX									
Benzene		< 0.01	< 0.006	< 0.007	< 0.008	< 0.01	< 0.007	< 0.01	0.03
Toluene		< 0.01	< 0.006	< 0.007	< 0.008	< 0.01	< 0.007	< 0.01	12
Ethyl Benzene		< 0.01	< 0.006	< 0.007	< 0.008	< 0.01	< 0.007	< 0.01	13
Total Xylenes		< 0.01	< 0.006	< 0.007	< 0.008	< 0.01	< 0.007	< 0.01	150
TPH									
Gasoline		< 120	< 62	< 70	< 80	< 120	< 75	< 130	NA <sup>11</sup>
Diesel		< 120	< 62	< 70	< 80	< 120	< 75	< 130	NA
Oil		< 120	< 62	< 70	< 80	< 120	< 75	2,750	NA
PNAS									
Acenaphthene		< 0.050	< 0.025	< 0.028	< 0.032	< 0.048	0.033	< 0.051	570
Acenaphthylene		< 0.050	< 0.025	< 0.028	< 0.032	< 0.048	< 0.030	< 0.051	NA
Anthracene		< 0.10	< 0.049	< 0.056	< 0.064	< 0.095	0.084	< 0.10	12,000
Benzo(a)anthracene		< 0.0453	< 0.012	< 0.0160	< 0.0101	< 0.110	0.25	0.35	2
Benzo(a)pyrene		< 0.020	< 0.0057	< 0.0065	< 0.0074	< 0.0451	0.19	0.51	0.8
Benzo(b)fluoranthene		0.02	0.0046	< 0.0051	< 0.0058	< 0.0678	0.16	0.48	5
Benzo(g,h,i)perylene		< 0.10	< 0.049	< 0.056	< 0.064	< 0.095	0.14	0.51	NA
Benzo(k)fluoranthene		< 0.0649	< 0.0065	< 0.0048	< 0.0054	< 0.0267	0.11	0.3	49
Chrysene		< 0.07	< 0.04	< 0.04	< 0.05	< 0.11	0.25	0.45	160
Dibenzo(a,h)anthracene		< 0.01	< 0.007	< 0.008	< 0.01	< 0.01	0.021	0.061	0.8
Fluoranthene		< 0.050	< 0.025	< 0.028	< 0.032	< 0.076	0.52	1	4,300
Fluorene		< 0.18	< 0.054	< 0.028	< 0.032	< 0.048	0.049	< 0.13	560
Indeno(1,2,3-c,d)pyrene		< 0.021	< 0.011	< 0.012	< 0.014	< 0.021	0.1	0.4	8
Naphthalene		0.15	< 0.031	< 0.035	< 0.040	< 0.060	< 0.037	< 0.063	84
Phenanthrene		< 0.10	< 0.049	< 0.056	< 0.064	< 0.095	0.24	0.3	NA
Pyrene		< 0.050	< 0.025	< 0.028	< 0.032	0.057	0.49	0.83	4,200
RCRA Metals <sup>11</sup>									
Arsenic		24	2.2	6.2	11	7.9	3.4	13	3
Barium		4,730	173	3,090	4,320	2,860	195	2,780	14,000
Cadmium		4.2	< 0.62	0.73	1.1	< 1.2	< 0.75	2.1	200
Chromium		52	3	20	22	31	11	43	420
Lead		70	< 4.9	39	46	31	21	130	400
Mercury		0.4	< 0.049	< 0.056	< 0.064	< 0.095	0.082	0.35	61
Selenium		2.2	< 0.31	0.56	0.67	0.81	< 0.37	0.73	1,000
Silver		< 5.0	3.7	3.5	3.8	< 4.8	3	< 5.1	1,000
Total PCBs		< 0.10	< 0.049	< 0.056	< 0.064	< 0.095	< 0.060	< 0.10	1
pH		8.75	9.05	9.81	10.22	8.97	7.55	7.32	NA

**Table 2**  
**Sediment Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	Sample I.D. Lab I.D. Sample Date	X-8 499076 10/19/98	X-9 499077 10/19/98	X-10 499078 10/19/98	X-11 499079 10/19/98	X-12 499080 10/19/98	X-13 499086 10/20/98	X-14 499081 10/19/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>									
Benzene		< 0.009	< 0.02	< 0.006	< 0.007	< 0.007	< 0.007	< 0.01	0.03
Toluene		< 0.009	< 0.02	< 0.006	< 0.007	< 0.007	< 0.007	< 0.01	12
Ethyl Benzene		< 0.009	< 0.02	< 0.006	< 0.007	< 0.007	< 0.007	< 0.01	13
Total Xylenes		< 0.009	< 0.02	< 0.006	< 0.007	< 0.007	< 0.007	< 0.01	150
<b>TPH</b>									
Gasoline		< 92	< 240	< 622	< 734	< 69	< 66	< 120	NA
Diesel		< 92	3,380	3,000	16,700	475	< 66	< 120	NA
Oil		434	< 240	< 622	< 734	< 69	< 66	< 120	NA
<b>PNAS</b>									
Acenaphthene		< 0.037	< 0.97	< 0.025	1.4	< 0.94	< 0.026	< 0.046	570
Acenaphthylene		< 0.037	< 0.97	< 0.025	< 0.58	< 0.94	< 0.026	< 0.046	NA
Anthracene		< 0.14	8.7	< 0.46	< 15	2.9	< 0.052	< 0.092	12,000
Benzo(a)anthracene		< 0.94	16	< 0.21	< 5.9	< 9.2	< 0.058	< 0.0477	2
Benzo(a)pyrene		< 0.29	14	< 0.041	< 0.81	2.2	0.052	0.018	0.8
Benzo(b)fluoranthene		< 0.40	12	< 0.073	< 0.93	1.9	0.047	0.015	5
Benzo(g,h,i)perylene		< 0.074	11	< 0.050	< 1.2	< 1.9	< 0.052	< 0.092	NA
Benzo(k)fluoranthene		< 0.40	8.3	< 0.057	< 1.1	< 2.2	0.05	< 0.014	49
Chrysene		0.29	17	< 0.04	< 0.8	1.5	0.047	< 0.07	160
Dibenzo(a,h)anthracene		< 0.033	< 1.6	< 0.016	< 0.2	< 0.3	< 0.008	< 0.01	0.8
Fluoranthene		< 0.26	58	< 0.30	< 13	6.2	0.12	< 0.046	4,300
Fluorene		< 0.11	8.7	0.15	7.8	1.6	< 0.026	< 0.046	560
Indeno(1,2,3-c,d)pyrene		< 0.016	7.8	< 0.011	< 0.26	0.82	0.042	< 0.020	8
Naphthalene		0.26	< 1.2	< 0.031	< 0.74	< 1.2	0.037	< 0.058	84
Phenanthrene		0.22	42	0.14	< 15	4.1	0.063	< 0.092	NA
Pyrene		0.28	49	< 0.52	< 19	3.8	0.11	< 0.046	4,200
<b>RCRA Metals<sup>(a)</sup></b>									
Arsenic		8.3	9.7	12	2.5	1.9	3	5.3	3
Barium		2,020	5,830	92	470	329	669	2,350	14,000
Cadmium		< 0.92	3.7	0.87	0.78	1.9	1.3	1.2	200
Chromium		12	680	19	7.6	11	22	32	420
Lead		26	874	20	16	12	262	30	400
Mercury		< 0.074	< 0.19	< 0.050	< 0.059	< 0.055	< 0.063	< 0.092	61
Selenium		< 0.46	< 1.2	< 0.31	< 0.37	< 0.34	< 0.33	< 0.58	1,000
Silver		< 3.7	< 9.7	< 2.5	< 2.9	< 2.7	< 2.6	< 4.6	1,000
<b>Total PCBs</b>		< 0.074	< 0.19	< 0.050	< 0.059	0.15	1	< 0.092	1
<b>pH</b>		8.67	7.82	8.72	7.65	8.11	7.71	9.17	NA

Notes:  
 Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties.

<sup>(a)</sup> NA indicates not applicable. Cleanup objectives have not been established for these parameters

<sup>(b)</sup> Results are shown as totals, therefore the soil component of the groundwater ingestion exposure route has not been considered

Table 3

**Surface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Page 1 of 4

Parameters	Sample I.D. Lab I.D. Sample Date	S-1 498660 10/16/98	S-2 498662 10/16/98	S-3 498663 10/16/98	S-4 498664 10/16/98	S-5 498665 10/16/98	S-6 498666 10/16/98	IEPA Soil Cleanup Objectives
BTEX								
Benzene		< 0.008	< 0.005	< 0.006	< 0.006	< 0.006	< 0.007	0.03
Toluene		< 0.008	< 0.005	< 0.006	< 0.006	< 0.006	< 0.007	12
Ethyl Benzene		< 0.008	< 0.005	< 0.006	< 0.006	< 0.006	< 0.007	13
Total Xylenes		< 0.008	< 0.005	0.0099	< 0.006	< 0.006	< 0.007	150
TPH								
Gasoline		< 78	< 528	< 585	< 1,290	< 1,270	< 67	NA <sup>(1)</sup>
Diesel		< 78	< 528	38,700	188,000	< 1,270	< 67	NA
Oil		110	126,000	< 585	< 1,290	933,000	741	NA
PNAS								
Acenaphthene		0.081	< 9.2	< 3.0	14	< 4.5	< 0.86	570
Acenaphthylene		< 0.06	< 1.7	< 16	< 6.2	< 4.5	< 2.4	NA
Anthracene		< 0.284	< 3.4	< 44	< 88	< 9.2	< 6.7	12,000
Benzo(a)anthracene		< 2.7	< 8.8	< 18	< 23	< 16	< 27	2
Benzo(a)pyrene		< 0.203	< 0.39	< 0.70	< 0.64	< 4.3	< 2.0	0.8
Benzo(b)fluoranthene		0.1	< 0.30	< 1.9	< 1.9	5.3	0.74	5
Benzo(g,h,i)perylene		< 0.1	< 3.4	< 6.1	< 3.1	< 9.2	< 1.7	NA
Benzo(k)fluoranthene		< 0.075	< 0.29	< 0.52	< 0.57	3.4	< 1.2	49
Chrysene		< 0.11	< 2	< 8.1	< 15	< 7	< 1.37	160
Dibenzo(a,h)anthracene		< 0.076	< 0.5	< 0.9	< 0.5	< 1	< 1.1	0.8
Fluoranthene		0.66	< 6.5	< 27	< 258	23	5.8	4,300
Fluorene		0.12	< 1.7	< 25	98	< 9.1	2.1	560
Indeno(1,2,3-c,d)pyrene		< 0.098	< 0.73	< 1.3	< 0.66	4.3	< 1.2	8
Naphthalene		0.2	< 2.1	< 34	< 22	< 5.8	2.4	84
Phenanthrene		0.36	6.5	39	245	15	3.6	NA
Pyrene		0.41	< 14	< 94	< 12	19	3.5	4,200
RCRA Metals <sup>(2)</sup>								
Arsenic		4.8	2.9	2.5	2.1	< 1.5	< 1.6	3
Barium		1,720	475	175	348	443	510	14,000
Cadmium		1	1.6	< 0.58	4.1	0.67	3.1	200
Chromium		16	11	5	10	7.1	7.1	420
Lead		23	190	23	15	19	21	400
Mercury		0.062	< 0.042	< 0.047	< 0.052	< 0.051	0.067	61
Selenium		0.45	0.26	< 0.29	< 0.32	< 0.32	< 0.34	1,000
Silver		< 3.1	< 2.1	< 2.3	< 2.6	< 2.5	< 2.7	1,000
Total PCBs		< 0.062	7.52	< 0.047	< 0.39	< 2.3	1.48	1
pH		9.50	5.78	9.94	7.50	7.06	7.75	NA

**Table 3**  
**Surface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	S-7 498667 10/16/98	S-8 498668 10/16/98	S-9 498669 10/16/98	S-10 498670 10/16/98	S-11 498671 10/16/98	S-12 498672 10/16/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>							
Benzene	< 0.007	< 0.006	< 0.006	< 0.006	< 0.006	< 0.005	0.03
Toluene	< 0.007	< 0.006	< 0.006	< 0.006	< 0.006	< 0.005	12
Ethyl Benzene	0.0072	< 0.006	< 0.006	< 0.006	< 0.006	< 0.005	13
Total Xylenes	< 0.007	< 0.006	< 0.006	< 0.006	< 0.006	< 0.005	150
<b>TPH</b>							
Gasoline	< 67	< 583	< 63	239	< 56	< 1,020	NA
Diesel	< 67	< 583	< 63	1,090	< 56	< 1,020	NA
Oil	1,680	3,090	8,460	< 57	215	67,000	NA
<b>PNAAs</b>							
Acenaphthene	< 0.92	< 2.7	12	< 5.6	< 0.22	< 0.72	570
Acenaphthylene	< 2.8	< 11	< 1.1	< 1.0	< 0.22	< 0.72	NA
Anthracene	< 0.53	< 6.9	28	3.9	1.1	< 1.5	12,000
Benzo(a)anthracene	< 20	< 18	73	16	4.6	3.8	2
Benzo(a)pyrene	< 0.83	< 0.70	71	6.4	4.7	2.6	0.8
Benzo(b)fluoranthene	< 1.3	< 2.1	57	14	4.1	4.6	5
Benzo(g,h,i)perylene	< 0.53	< 1.4	53	11	4.1	5.6	NA
Benzo(k)fluoranthene	< 0.20	< 3.6	37	6.8	2.7	2.6	49
Chrysene	< 2.0	1.8	67	11	4.5	3.2	160
Dibenzo(a,h)anthracene	< 1.0	< 0.55	7.8	1.4	0.62	0.44	0.8
Fluoranthene	< 1.5	< 6.7	177	23	9.4	5.3	4,300
Fluorene	< 1.1	< 4.0	15	2.5	0.5	< 0.72	560
Indeno(1,2,3-c,d)pyrene	< 0.48	< 0.60	38	9.2	3.9	3.7	8
Naphthalene	< 1.2	< 10	4	< 1.3	< 0.28	< 0.90	84
Phenanthrene	1	6.4	80	15	3.8	2.2	NA
Pyrene	< 0.69	8.3	139	17	7.2	5.6	4,200
<b>RCRA Metals</b>							
Arsenic	< 1.6	< 1.4	3	5.9	7.7	7.1	3
Barium	427	595	796	1,380	2,680	549	14,000
Cadmium	< 0.67	3.6	2.3	40	1.7	3.5	200
Chromium	2.8	12	20	84	88	25	420
Lead	13	1,130	27	1,130	89	132	400
Mercury	< 0.053	0.083	0.087	0.14	< 0.045	1	61
Selenium	< 0.33	< 0.29	0.67	3.8	< 0.28	0.33	1,000
Silver	< 2.7	< 2.3	< 2.5	< 2.3	2.6	5.3	1,000
<b>Total PCBs</b>	< 0.053	< 0.047	0.204	0.448	0.045	0.39	1
<b>pH</b>	7.54	6.49	7.64	6.95	8.99	6.64	NA

**Table 3**  
**Surface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	S-13 498673 10/16/98	S-14 498674 10/16/98	S-15 498675 10/16/98	S-16 498676 10/16/98	S-17 498677 10/16/98	S-18 498678 10/16/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>							
Benzene	< 0.005	< 0.005	< 0.006	< 0.006	< 0.006	< 0.01	0.03
Toluene	< 0.005	< 0.005	< 0.006	< 0.006	< 0.006	< 0.01	12
Ethyl Benzene	< 0.005	< 0.005	< 0.006	< 0.006	< 0.006	< 0.01	13
Total Xylenes	< 0.005	< 0.005	< 0.006	< 0.006	< 0.006	< 0.01	150
<b>TPH</b>							
Gasoline	< 5,300	292	224	< 591	< 573	< 1,190	NA
Diesel	< 5,300	< 52	< 55	< 591	85,600	< 1,190	NA
Oil	146,000	5,180	5,130	45,200	< 573	179,000	NA
<b>PNAs</b>							
Acenaphthene	< 1.8	< 4.2	< 5.6	1.7	3.4	< 12	570
Acenaphthylene	< 1.8	< 2.1	< 1.3	< 0.38	< 2.1	< 3.8	NA
Anthracene	< 3.6	7.3	< 2.6	3.3	< 4.4	12	12,000
Benzo(a)anthracene	< 5.7	18	8.5	6.1	< 4.4	< 26	2
Benzo(a)pyrene	< 0.42	8.4	6.1	5.3	< 0.48	19	0.8
Benzo(b)fluoranthene	< 1.7	19	9.8	5.8	< 0.37	17	5
Benzo(g,h,i)perylene	< 3.6	21	5.9	4.6	< 4.1	13	NA
Benzo(k)fluoranthene	< 1.1	< 13	4.7	3.2	< 0.35	7.9	49
Chrysene	< 3	22	8.4	5.9	< 3	< 17	160
Dibenzo(a,h)anthracene	< 0.5	3.1	0.84	< 0.64	< 0.6	2.6	0.8
Fluoranthene	< 1.8	55	24	17	< 26	55	4,300
Fluorene	< 1.8	< 5.6	1.7	1.7	8.8	6	560
Indeno(1,2,3-c,d)pyrene	< 0.77	15	5.2	3.8	< 0.89	12	8
Naphthalene	< 2.2	< 2.6	< 1.7	0.69	< 2.6	< 4.8	84
Phenanthrene	< 3.6	26	17	12	< 19	43	NA
Pyrene	< 1.8	34	18	14	< 67	41	4,200
<b>RCRA Metals</b>							
Arsenic	4.6	21	5.8	6.4	3.8	23	3
Barium	498	166	2,090	1,300	275	1,580	14,000
Cadmium	2.3	8.7	4.8	3.7	2.5	16	200
Chromium	51	104	50	93	29	69	420
Lead	117	498	132	496	42	180	400
Mercury	0.064	0.2	0.1	0.47	< 0.046	0.12	61
Selenium	0.6	6.6	0.31	0.45	0.72	1.3	1,000
Silver	< 2.1	2.4	< 2.2	< 2.4	< 2.3	< 4.8	1,000
<b>Total PCBs</b>	0.59	0.55	0.39	0.93	< 0.046	2.03	1
pH	6.52	6.50	8.52	7.42	7.32	8.07	NA

**Table 3**  
**Surface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	S-19 498679 10/16/98	S-20 498680 10/16/98	S-21 498681 10/16/98	S-22 498682 10/16/98	S-24 498661 10/16/98	IEPA Soil Cleanup Objectives
BTEX						
Benzene	< 0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.03
Toluene	< 0.006	< 0.005	< 0.005	< 0.005	< 0.005	12
Ethyl Benzene	< 0.006	< 0.005	< 0.005	0.0081	< 0.005	13
Total Xylenes	< 0.006	< 0.005	0.01	< 0.005	< 0.005	150
TPH						
Gasoline	< 554	< 51	< 521	< 521	< 52	NA
Diesel	< 554	< 51	< 521	< 521	< 52	NA
Oil	65,400	520	15,100	78,200	< 52	NA
PNAS						
Acenaphthene	< 2.0	< 0.36	< 0.50	< 1.4	< 0.021	570
Acenaphthylene	< 2.0	< 0.36	< 0.50	< 1.4	< 0.021	NA
Anthracene	< 4.0	< 0.74	< 1.6	< 2.7	< 0.042	12,000
Benzo(a)anthracene	< 2.8	1.9	< 0.85	2.4	< 0.046	2
Benzo(a)pyrene	2.1	1.2	< 0.11	1.4	< 0.022	0.8
Benzo(b)fluoranthene	3.1	0.88	< 0.30	1.3	0.021	5
Benzo(g,h,i)perylene	< 4.0	0.84	< 1.0	< 2.7	< 0.042	NA
Benzo(k)fluoranthene	1.8	0.63	< 18	0.64	< 0.017	49
Chrysene	< 3	1	< 0.75	< 2	< 0.03	160
Dibenz(a,h)anthracene	0.62	0.14	< 0.15	< 0.4	< 0.006	0.8
Fluoranthene	3.5	3.2	< 2.5	2.4	0.04	4,300
Fluorene	< 2.0	< 0.36	< 0.82	< 1.4	< 0.021	560
Indeno(1,2,3-c,d)pyrene	3	0.76	< 0.22	0.81	0.014	8
Naphthalene	< 2.5	< 0.45	< 0.62	< 1.7	< 0.026	84
Phenanthrene	< 4.0	1.9	2.6	< 2.7	< 0.042	NA
Pyrene	6	2.5	< 1.0	2.6	0.037	4,200
RCRA Metals						
Arsenic	1.6	4.9	7.1	5.2	0.96	3
Barium	68	1,730	927	448	20	14,000
Cadmium	1.9	1.3	1.7	0.97	0.69	200
Chromium	7.6	39	22	11	3.6	420
Lead	11	1,020	61	22	7.9	400
Mercury	< 0.044	0.052	< 0.042	< 0.042	< 0.042	61
Selenium	< 0.28	< 0.25	< 0.26	< 0.26	< 2.6	1,000
Silver	< 2.2	2.4	< 2.1	2.3	2.2	1,000
Total PCBs	< 4.4	0.143	0.156	0.25	< 0.042	1
pH	6.60	7.71	6.52	8.79	9.07	NA

**Notes:**  
 Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table B. Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties.

(1) NA indicates not applicable, cleanup objectives have not been established for these parameters.

(2) Results are shown as totals, therefore the soil component of the groundwater ingestion exposure route has not been considered.

**Table 4**  
**Subsurface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	Sample I.D. Lab I.D.	B-1 498406 10/15/98 0-3	B-2 498407 10/15/98 0-3	B-3 498409 10/15/98 0-1	B-4 498408 10/15/98 0-2	B-5 498410 10/15/98 0-1	B-6 498411 10/15/98 0-2	IEPA Soil Cleanup Objectives
BTEX								
Benzene		< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	0.03
Toluene		< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	12
Ethyl Benzene		< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	13
Total Xylenes		< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	150
PNAS								
Acenaphthene		< 0.1	< 1.1	< 0.1	< 0.065	< 0.161	< 0.1	570
Acenaphthylene		< 0.1	< 1.1	< 0.1	< 0.023	< 0.1	< 0.1	NA <sup>(b)</sup>
Anthracene		< 0.2	< 2.2	< 0.2	< 0.045	< 0.2	< 0.2	12,000
Benzo(a)anthracene		0.49	1.4	< 0.016	< 0.174	< 1.0	< 0.36	2
Benzo(a)pyrene		0.65	1.4	< 0.123	0.119	< 0.099	0.16	0.8
Benzo(b)fluoranthene		0.55	1.3	< 0.136	0.125	< 0.02	0.15	5
Benzo(g,h,i)perylene		0.55	< 2.2	< 0.2	0.148	< 0.2	< 0.2	NA
Benzo(k)fluoranthene		0.32	0.84	< 0.02	0.072	< 0.028	0.11	49
Chrysene		0.62	< 2	< 0.2	0.125	< 0.2	0.6	160
Dibenzof(a,h)anthracene		0.073	< 0.4	< 0.04	0.016	< 0.049	< 0.04	0.8
Fluoranthene		1	2.3	0.335	0.253	< 0.49	0.16	4,300
Fluorene		< 0.1	< 1.1	< 0.1	< 0.027	< 0.1	< 0.1	560
Indeno(1,2,3-c,d)pyrene		0.47	1	< 0.0658	0.097	< 0.049	0.068	8
Naphthalene		< 0.1	< 1.36	< 0.152	< 0.028	< 0.14	< 0.15	84
Phenanthrene		0.52	< 2.2	< 0.2	0.1	< 0.2	< 0.2	NA
Pyrene		0.95	2	0.315	0.225	< 0.89	0.23	4,200
RCRA Metals <sup>(a)</sup>								
Arsenic		4.6	4.9	4.9	5.3	7.1	5.2	3
Barium		1,180	992	158	634	1,530	885	14,000
Cadmium		0.85	0.85	0.85	1.2	1.1	< 0.57	200
Chromium		17	17	12	11	12	19	420
Lead		66	36	21	18	38	20	400
Mercury		0.091	0.11	< 0.049	< 0.045	< 0.044	< 0.045	61
Selenium		< 0.31	< 0.27	< 0.30	< 0.28	< 0.27	< 0.28	1,000
Silver		< 2.5	< 2.2	< 2.4	< 2.3	< 2.2	< 2.3	1,000
Total PCBs		1.1	0.055	0.054	0.093	< 0.044	< 0.045	1
pH		8.63	9.14	8.11	8.83	8.73	8.82	NA

**Table 4**  
**Subsurface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	Sample I.D. Lab I.D. Sample Date Sample Depth (feet)	B-7 498412 10/15/98 0-1	B-8 498413 10/15/98 0-1	B-9 498414 10/15/98 0-1	B-10 498415 10/15/98 0-1	B-11 498416 10/15/98 0-1	B-12 498417 10/15/98 0-2	IEPA Soil Cleanup Objectives
<b>BTEX</b>								
Benzene		< 0.006	< 0.005	< 0.008	< 0.006	< 0.006	< 0.006	0.03
Toluene		< 0.006	< 0.005	< 0.008	0.053	< 0.006	< 0.006	12
Ethyl Benzene		< 0.006	< 0.005	< 0.008	< 0.006	< 0.006	< 0.006	13
Total Xylenes		< 0.006	< 0.005	< 0.008	0.058	< 0.006	< 0.006	150
<b>PNAs</b>								
Acenaphthene		< 0.58	< 0.021	< 3.1	< 2.8	< 2.3	< 2.2	570
Acenaphthylene		< 0.58	< 0.021	< 3.1	< 7.0	< 2.3	< 2.2	NA
Anthracene		< 1.1	< 0.042	< 7.3	< 25	< 8.0	4.5	12,000
Benzo(a)anthracene		< 2.3	0.11	< 19	< 3.3	< 7.4	13	2
Benzo(a)pyrene		< 0.32	0.059	< 3.4	< 1.6	< 1.3	12	0.8
Benzo(b)fluoranthene		0.53	0.054	< 1.5	< 0.44	< 1.4	9.9	5
Benzo(g,h,i)perylene		< 1.1	0.067	< 6.2	< 4.9	< 4.6	9	NA
Benzo(k)fluoranthene		< 0.45	0.041	< 6.9	< 1.6	< 2.2	6.6	49
Chrysene		< 0.8	0.07	< 5	< 4	< 3	13	160
Dibenzo(a,h)anthracene		< 0.2	0.008	< 0.9	< 0.7	< 1.1	1.2	0.8
Fluoranthene		0.97	0.13	< 4.2	< 20	< 5.1	30	4,300
Fluorene		< 0.58	< 0.021	< 3.1	< 7.7	< 2.3	2.3	560
Indeno(1,2,3-c,d)pyrene		< 0.24	0.04	< 1.3	< 1.1	< 1.0	7.6	8
Naphthalene		< 0.71	< 0.027	< 3.9	< 7.4	< 2.9	< 2.8	84
Phenanthrene		< 1.1	0.064	< 6.2	< 7.1	< 4.6	17	NA
Pyrene		0.68	0.1	4.8	< 21	< 2.3	23	4,200
<b>RCRA Metals</b>								
Arsenic		6.7	7.4	3.2	1.4	3.1	3.5	3
Barium		294	361	988	295	476	696	14,000
Cadmium		1.4	1	< 0.77	4.5	0.85	0.93	200
Chromium		12	13	6.9	5	9.9	24	420
Lead		16	19	23	12	23	100	400
Mercury		< 0.045	< 0.042	< 0.062	< 0.049	< 0.046	0.062	61
Selenium		< 0.28	< 0.27	< 0.39	< 0.31	< 0.29	0.87	1,000
Silver		< 2.3	< 2.1	< 3.1	< 2.5	< 2.3	< 2.2	1,000
Total PCBs		0.046	< 0.042	1.3	< 0.049	2.54	0.074	1
pH		9.30	9.44	7.79	8.21	8.29	8.03	NA



**Table 4**  
**Subsurface Soil Sampling**  
**Soil Analytical Results In Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	Sample I.D. Lab I.D.	B-13 498418 10/15/98 0-1	B-14 498419 10/15/98 0-1	B-15 498420 10/15/98 0-1	B-16 498421 10/15/98 0-1	B-17 498422 10/15/98 0-1	B-18 498423 10/15/98 0-3	IEPA Soil Cleanup Objectives
BTEX								
Benzene		< 0.006	< 0.005	< 0.005	< 0.006	< 0.008	< 0.006	0.03
Toluene		< 0.006	< 0.005	< 0.005	< 0.006	< 0.008	< 0.006	12
Ethyl Benzene		< 0.006	< 0.005	< 0.005	< 0.006	< 0.008	< 0.006	13
Total Xylenes		< 0.006	< 0.005	< 0.005	< 0.006	< 0.008	< 0.006	150
PNAs								
Acenaphthene		< 2.3	< 0.66	< 0.727	< 0.66	< 0.1	0.036	570
Acenaphthylene		< 2.3	< 0.66	< 0.22	< 0.66	< 0.1	< 0.023	NA
Anthracene		< 4.5	< 1.3	0.71	< 1.3	0.43	0.091	12,000
Benzo(a)anthracene		< 3.6	0.9	2.4	< 3.3	< 0.91	0.09	2
Benzo(e)pyrene		3.2	0.68	2.5	3.3	1.3	0.08	0.8
Benzo(b)fluoranthene		2.7	0.68	2.1	2.6	0.68	0.051	5
Benzo(g,h,i)perylene		< 4.5	< 1.3	2	2.5	0.71	< 0.045	NA
Benzo(k)fluoranthene		1.7	0.43	1.2	1.9	0.47	0.033	49
Chrysene		< 3	< 0.9	2	2.8	0.73	0.061	160
Dibenzo(a,h)anthracene		< 0.7	< 0.2	< 0.21	0.29	0.076	< 0.018	0.8
Fluoranthene		5.8	1.5	6.4	7.7	2.2	0.205	4,300
Fluorene		< 2.3	< 0.66	0.58	< 0.66	0.17	0.052	560
Indeno(1,2,3-c,d)pyrene		1.7	0.64	1.6	2.3	0.75	0.04	8
Naphthalene		< 2.8	< 0.81	< 0.27	< 0.84	0.15	< 0.028	84
Phenanthrene		< 4.5	< 1.3	3.9	4.6	1.2	0.22	NA
Pyrene		4.9	1.3	4.9	6.4	1.7	0.16	4,200
RCRA Metals								
Arsenic		6.6	1.3	2.5	3.2	11	7.6	3
Barium		1,130	69	163	1,980	2,660	420	14,000
Cadmium		6.1	< 0.55	< 0.54	0.66	2.2	0.74	200
Chromium		74	4.8	9.7	20	33	15	420
Lead		113	12	36	37	56	22	400
Mercury		0.35	< 0.044	0.096	0.73	0.33	< 0.045	61
Selenium		< 0.28	< 0.27	< 0.27	< 0.28	0.5	< 0.28	1,000
Silver		4.3	< 2.2	2.8	3.2	< 3.3	< 2.3	1,000
Total PCBs		0.404	< 0.044	0.29	41.3	0.86	< 0.045	1
pH		8.74	9.22	9.20	9.42	8.09	8.32	NA

**Notes:**  
 Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table B. Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties

(1) NA indicates not applicable, cleanup objectives have not been established for these parameters.

(2) Results are shown as total, therefore the soil component of the groundwater ingestion exposure route has not been considered.

**Table 5**  
**Groundwater Sampling**  
**Groundwater Analytical Results in Milligrams per Liter (mg/l)**  
**Commonwealth Edison Company - Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

Parameters	Sample I.D.	MW-1 (B-2)	MW-2 (B-5)	MW-3 (B-8)	MW-4 (B-13)	MW-5 (B-10)	IEPA Groundwater
	Lab I.D.	499952	499953	499954	499955	499956	(Class I)
	Sample Date	10/26/98	10/26/98	10/26/98	10/26/98	10/26/98	Cleanup Objectives
BTEX							
Benzene		< 0.001	< 0.001	< 0.001	< 0.001	0.031	0.005
Toluene		< 0.001	< 0.001	< 0.001	< 0.001	0.037	1.0
Ethyl Benzene		< 0.001	< 0.001	< 0.001	< 0.001	0.066	0.7
Total Xylenes		< 0.001	< 0.001	0.0016	< 0.001	0.058	10.0
PNAs							
Acenaphthene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.051	0.42
Acenaphthylene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0020	NA <sup>(1)</sup>
Anthracene		< 0.0005	< 0.0005	< 0.0013	< 0.0005	< 0.17	2.1
Benzo(a)anthracene		< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.020	0.00013
Benzo(a)pyrene		< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.00023	0.0002
Benzo(b)fluoranthene		< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0022	0.00018
Benzo(g,h,i)perylene		< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.00076	NA
Benzo(k)fluoranthene		< 0.0017	< 0.0017	< 0.0017	< 0.0017	< 0.00017	0.00017
Chrysene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.013	0.0015
Dibenzo(a,h)anthracene		< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.00030	0.0003
Fluoranthene		< 0.0005	< 0.0005	< 0.0007	< 0.0005	< 0.17	0.28
Fluorene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.19	0.28
Indeno(1,2,3-c,d)pyrene		< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.00043	0.00043
Naphthalene		< 0.0005	< 0.0005	< 0.0020	< 0.0005	0.46	0.025
Phenanthrene		< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.30	NA
Pyrene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.28	0.21
RCRA Metals							
Arsenic		< 0.0050	0.0054	< 0.0050	< 0.0050	< 0.0050	0.05
Barium		0.059	0.379	0.137	0.069	0.157	2.0
Cadmium		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.005
Chromium		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.1
Lead		< 0.0050	0.0148	< 0.0050	< 0.0050	< 0.0050	0.0075
Mercury		< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.002
Selenium		< 0.0050	< 0.0050	< 0.0050	0.0102	< 0.0050	0.05
Silver		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.05
Total PCBs		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005
pH		6.87	7.80	7.09	7.34	6.62	NA
Specific Conductivity (mol)		150.7	96.0	0.235	103.1	144.4	NA
Temperature (C)		18.3	19.4	17.2	18.3	20.0	NA

**Notes:**  
Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table E: Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route.  
<sup>(1)</sup> NA indicates not applicable, cleanup objectives have not been established for these parameters.

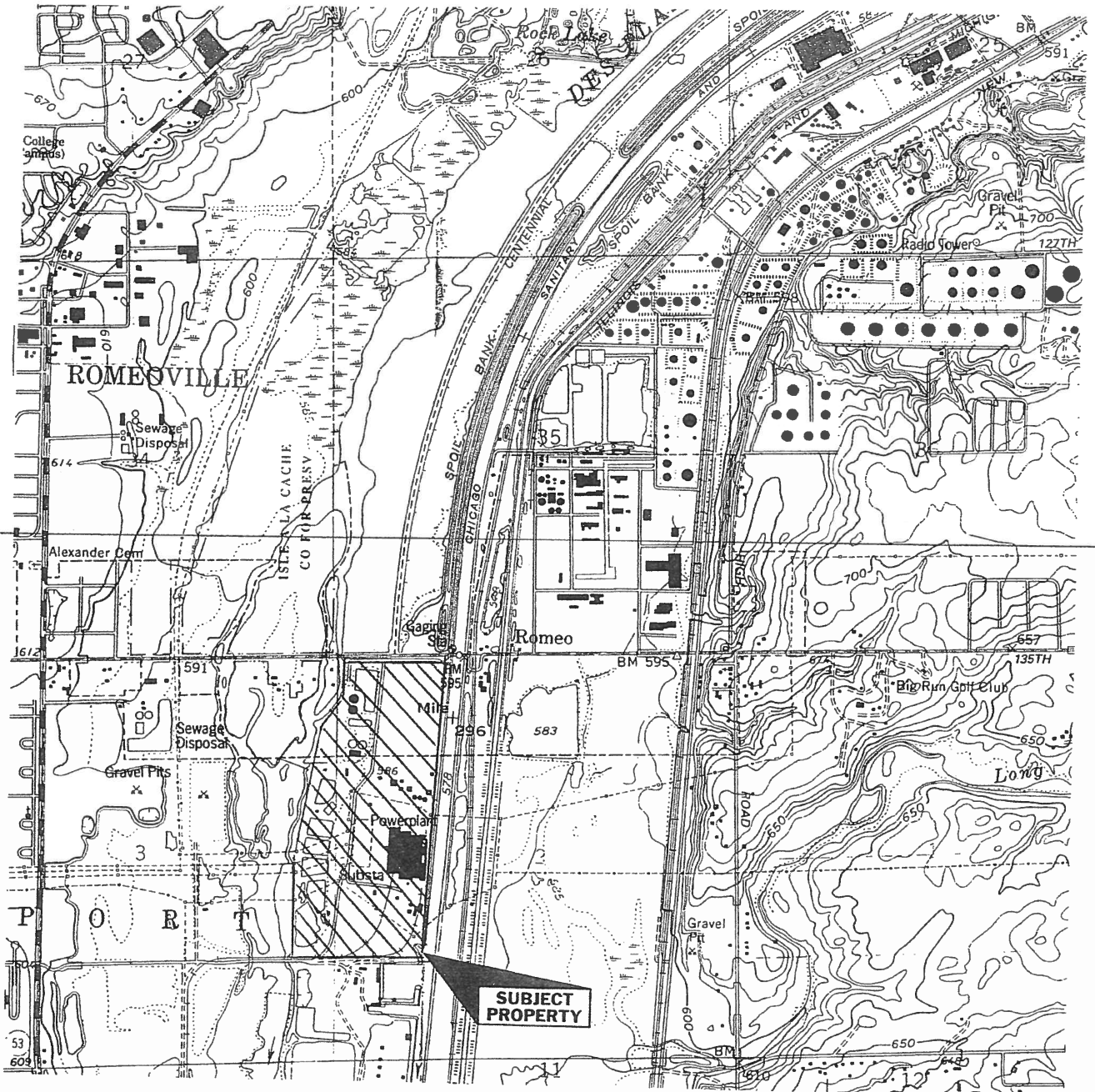
## FIGURES

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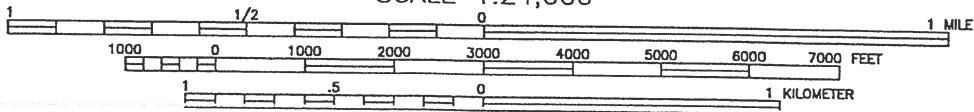
**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Will County Generating Station  
529 East Romeo Road  
Romeoville, Illinois**

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SCALE 1:24,000



Contour interval 5 feet

Dwg No: WAUKEGANS11



U.S.G.S.  
ROMEVILLE, IL

**SITE LOCATION MAP**

**WILL COUNTY GENERATING STATION  
529 EAST ROMEO ROAD  
ROMEVILLE, ILLINOIS**

**FIGURE 1**

**COMMONWEALTH EDISON COMPANY**



November 1998

File No: 1801-023-710

- LEGEND:**
- PROPERTY BOUNDARY
  - - - FENCE
  - - - CONVEYOR LINE
  - ++++ RAILROAD LINE
  - DRAINAGE DITCH

**Notes:**  
 • All dimensions and locations are approximate.

**SOURCES:**  
 • ENSR field observations.

Dep No: W040001.dwg

**WILL COUNTY GENERATING STATION**  
 529 EAST ROMEO ROAD  
 ROMEVILLE, ILLINOIS

**COMMONWEALTH EDISON COMPANY**  
 November 1998 File No: 1801-023-710

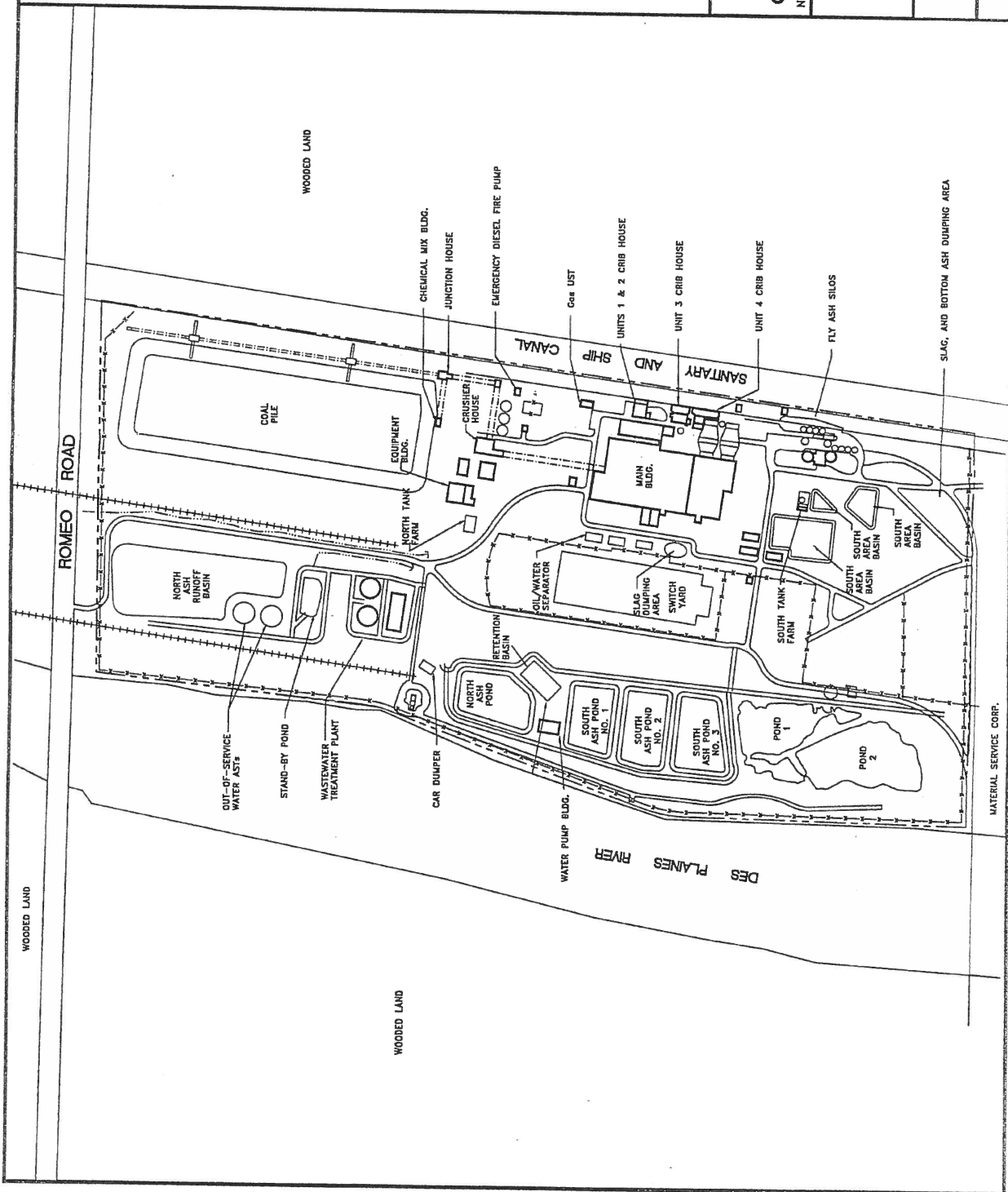
**SITE PLAN**



**FIGURE 2**

**ENSR**

NOT TO SCALE



**LEGEND:**

- PROPERTY BOUNDARY
- - - FENCE
- - - CONVEYOR LINE
- - - RAILROAD LINE
- - - DRAINAGE DITCH
- \* X-1 SEDIMENT SAMPLE

**Notes:**  
 • All dimensions and locations are approximate.  
**Sources:**  
 • ENSR field observations.

Will County Generating Station  
 529 EAST ROMEO ROAD  
 HOMEVILLE, ILLINOIS  
**COMMONWEALTH EDISON COMPANY**  
 November, 1998  
 File No: 1801-023-710

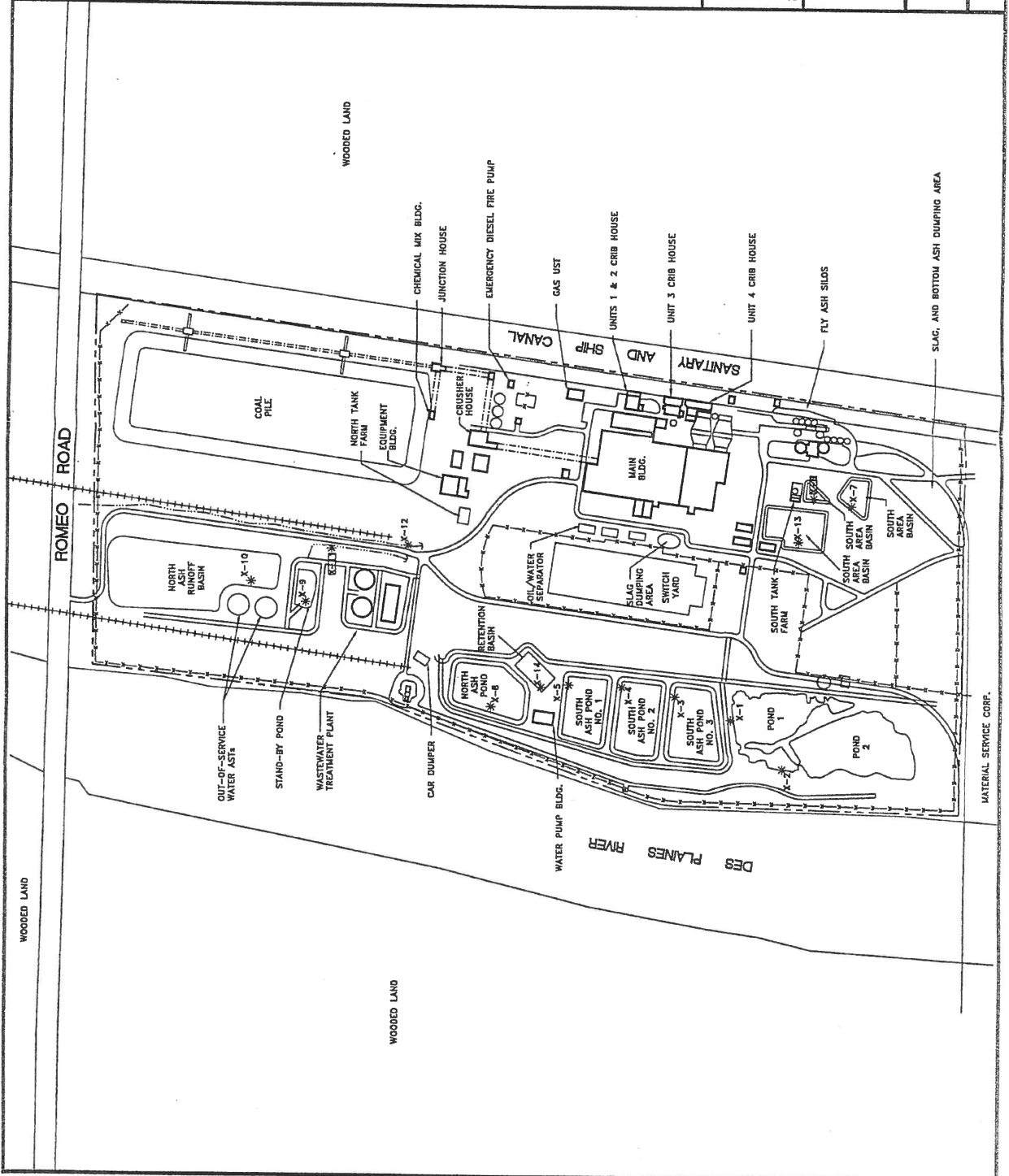
**SEDIMENT SAMPLE  
 SITE PLAN**



**FIGURE 3**

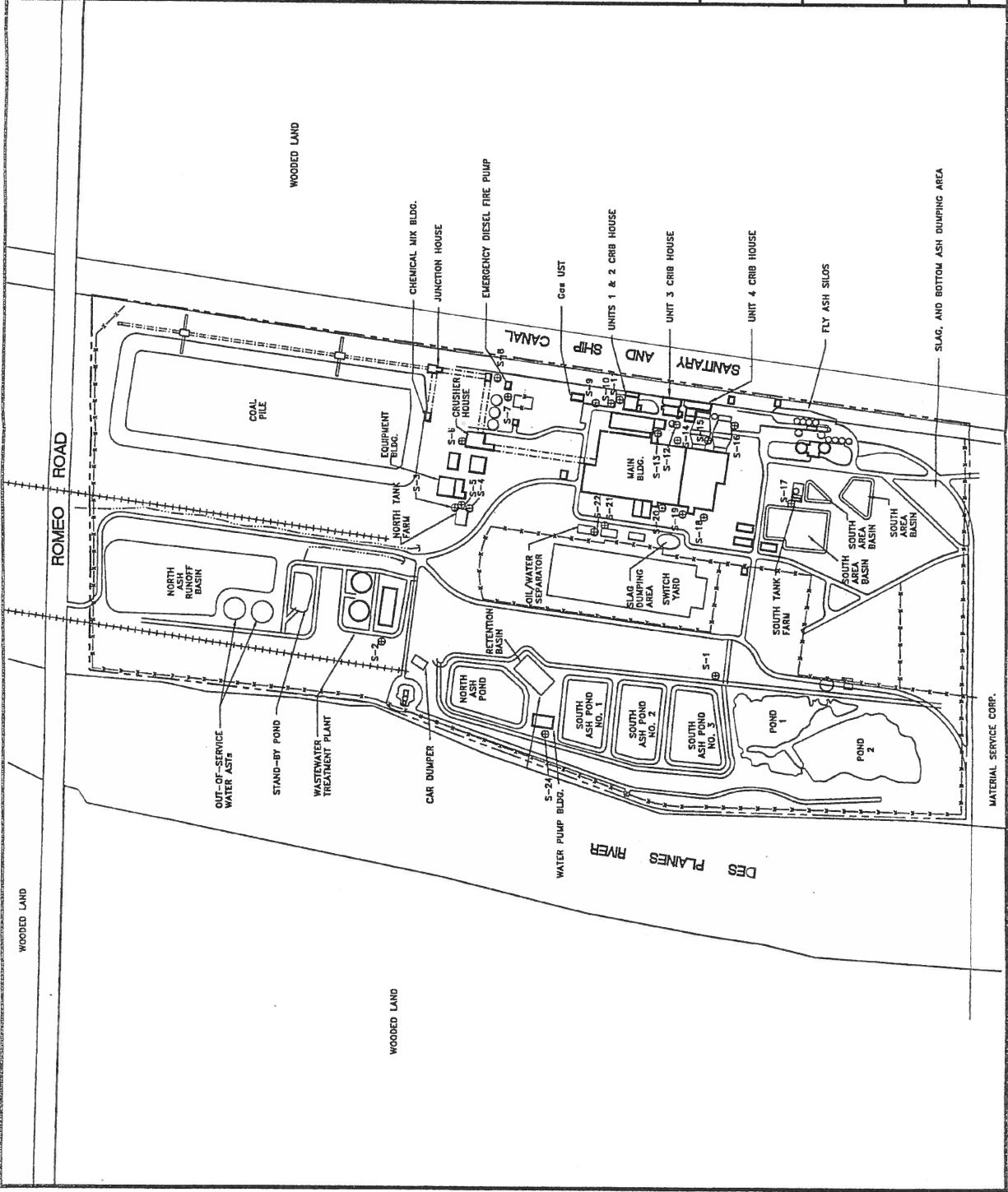


NOT TO SCALE



LEGEND:

- PROPERTY BOUNDARY
- - - - - FENCE
- - - - - CONVEYOR LINE
- +++++ RAILROAD LINE
- - - - - DRAINAGE DITCH
- ⊙ S-1 SURFACE SOIL SAMPLE



**Notes:**  
 • All dimensions and locations are approximate.  
**Source:**  
 • ENSR field observations.

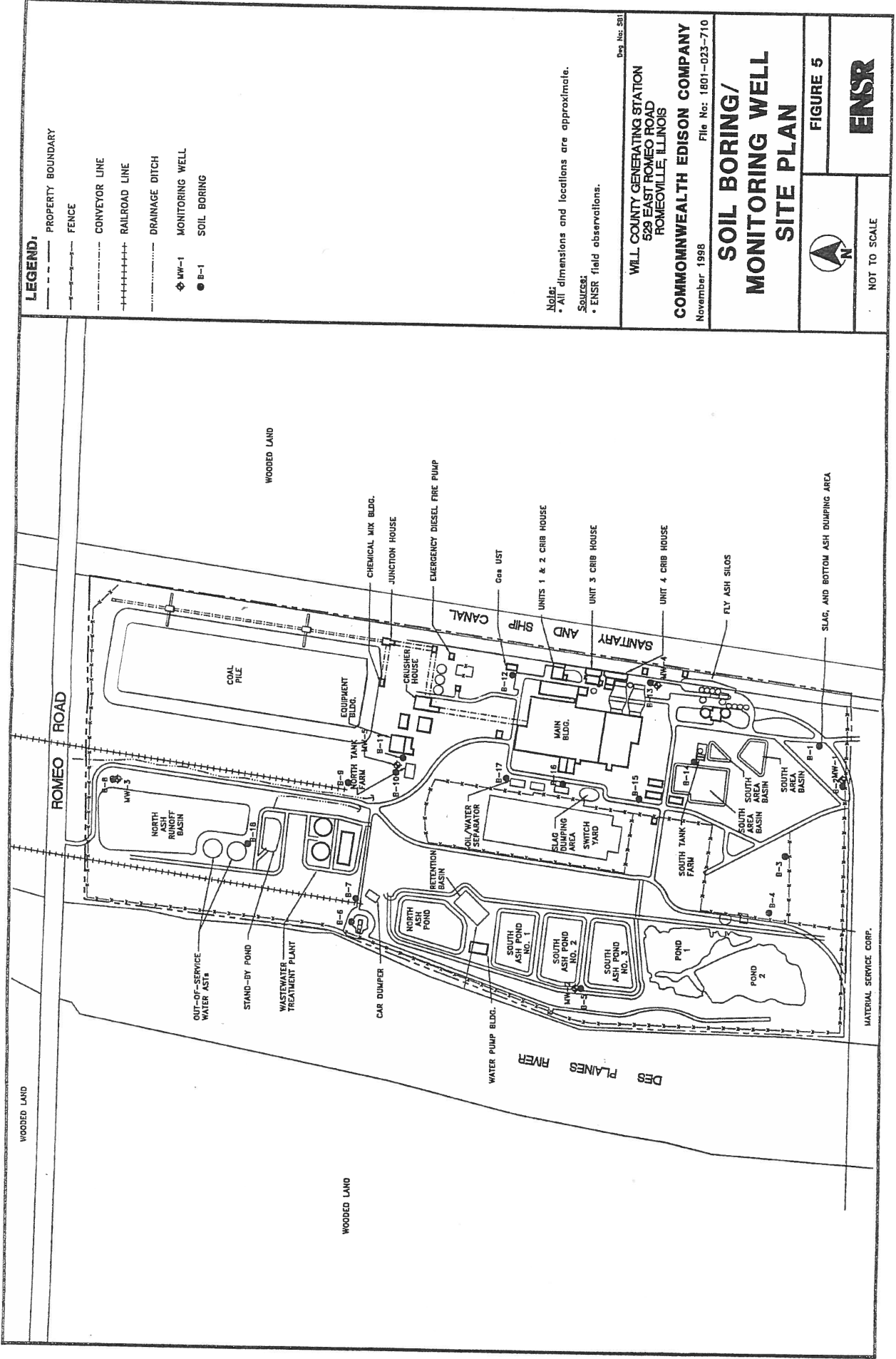
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**WILL COUNTY GENERATING STATION**  
 529 EAST ROMEO ROAD  
 HOMEVILLE, ILLINOIS  
**COMMONWEALTH EDISON COMPANY**  
 November 1998  
 File No: 1801-023-711

# SURFACE SOIL SAMPLE SITE PLAN

FIGURE 4



NOT TO SCALE



**LEGEND:**

- — — — — PROPERTY BOUNDARY
- - - - - FENCE
- - - - - CONVEYOR LINE
- +++++ RAILROAD LINE
- DRAINAGE DITCH
- ◊ MW-1 MONITORING WELL
- B-1 SOIL BORING

**Note:**  
 • All dimensions and locations are approximate.  
**Sources:**  
 • ENSR field observations.

Will County Generating Station  
 529 EAST ROMEO ROAD  
 ROMEVILLE, ILLINOIS  
**COMMONWEALTH EDISON COMPANY**  
 November, 1988 File No: 1801--023-710

**SOIL BORING/  
 MONITORING WELL  
 SITE PLAN**



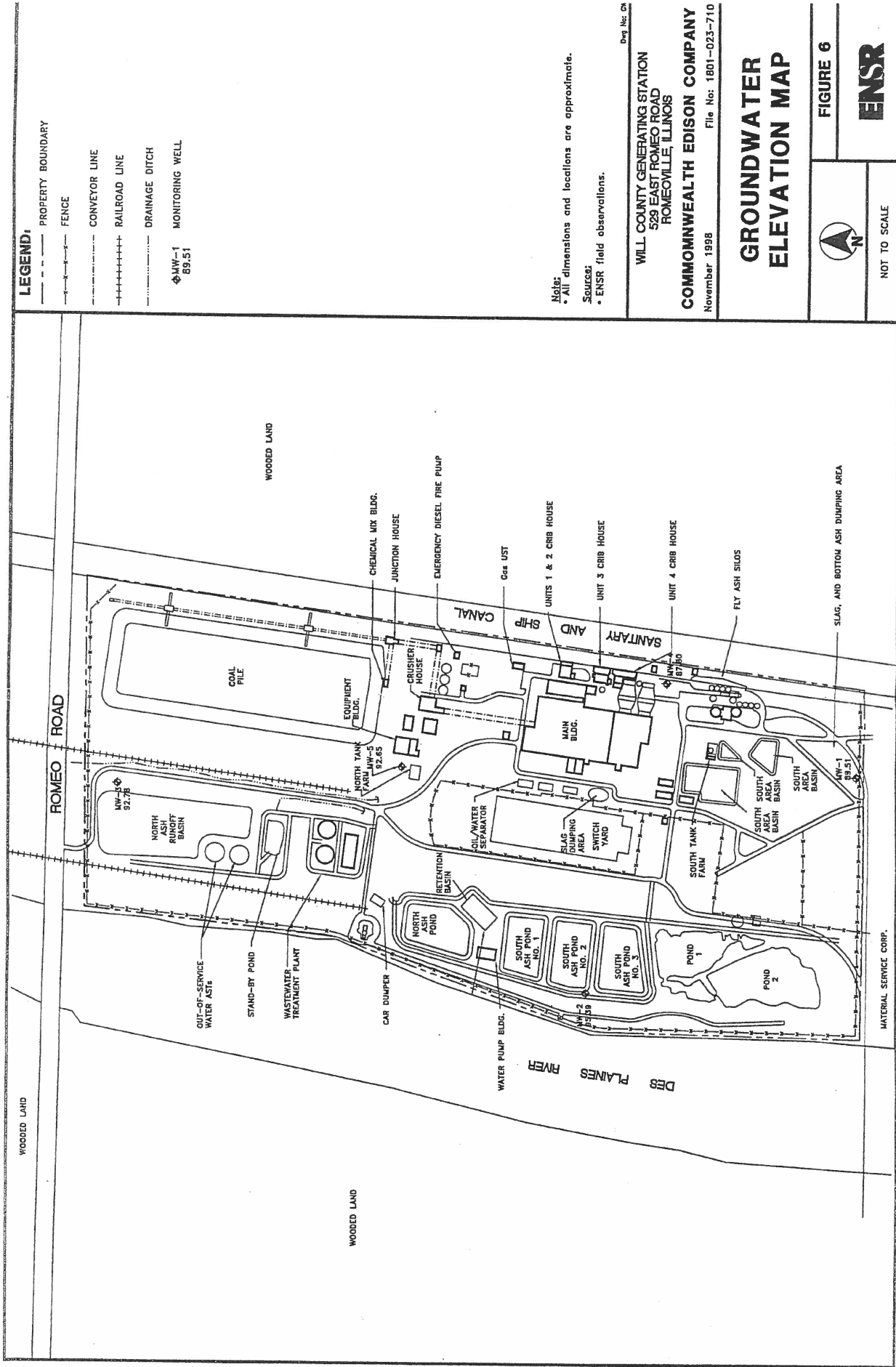
FIGURE 5



NOT TO SCALE

Eng. No: 581





**LEGEND:**

- PROPERTY BOUNDARY
- - - FENCE
- CONVEYOR LINE
- ++++ RAILROAD LINE
- DRAINAGE DITCH
- ⊕ MW-1 89.51
- ⊕ MW-2 92.78
- ⊕ MW-3 92.85
- ⊕ MW-4 87.80

**Note:**  
 • All dimensions and locations are approximate.  
**Sources:**  
 • ENSR field observations.

Will County Generating Station  
 529 East Romeo Road  
 Romeoville, Illinois  
**COMMONWEALTH EDISON COMPANY**  
 November 1998  
 File No: 1801-023-710

**GROUNDWATER ELEVATION MAP**



**FIGURE 6**



NOT TO SCALE

MATERIAL SERVICE CORP.

A



**APPENDIX A**

**Boring Logs and Monitoring Well Construction Diagrams**

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**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Will County Generating Station  
529 East Romeo Road  
Romeoville, Illinois**

---



Project No: 1801-023-710

Log of Borehole B-1

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1		Coal ash with gravel, pieces of brick, and orange clay	1	acetate	100	13.8	PNAs/BETX/pH/PCBs/ RCRA Metals
3		End of Borehole Refusal at 3' (hard rock)					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

ENSR  
 740 Pasquinelli Drive  
 Westmont, IL 60559  
 630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710


Log of Borehole B-2

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1		Top six inches gravel Bottom 2.5 feet coal ash	1	acetate	100	3.4	PNAs/BETX/pH/PCBs/ RCRA Metals
3		End of Borehole Refusal at 3' (hard rock)					

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/15/98

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559  
630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-3

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0		<i>Fill</i>					
1	●●●●	Coal ash with clay and brick	1	acetate	100	NA	PNAs/BETX/pH/PCBs/ RCRA Metals
1		End of Borehole					
2		Refusal at 1' (hard rock)					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

ENSR  
 740 Pasquinelli Drive  
 Westmont, IL 60559  
 630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710



Log of Borehole B-4

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					PNAs/BETX/pH/PCBs/ RCRA Metals
1		Fill Gravel	1	acetate	100	2.0	
2		Light brown-black ash					
2		End of Borehole					
3		Refusal at 2'					
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/15/98

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559  
630-887-1700

Sheet: 1 of 1





Project No: 1801-023-710

Log of Borehole B-5

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0		<i>Fill</i> Coal ash w/ orange clay and brick Black silt/ash, dry	1	acetate	100	1.1	PnAs/BETX/pH/PCBs/ RCRA Metals
1		End of Borehole Refusal at 1' 4"					
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/15/98

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559  
630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-12

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					PNAs/BETX/pH/PCBs/ RCRA Metals
1		Coal and gravel	1	acetate	100	2.0	
2		End of Borehole					
3		Refusal at 2'					
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

ENSR  
 740 Pasquinelli Drive  
 Westmont, IL 60559  
 630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-13

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 1 PNAs/BETX/pH/PCBs/ RCRA Metals
0		<i>Fill</i> Coal, brown-black silt, gravel	1	acetate	100	2.2	
1		End of Borehole Refusal at 1'					
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

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 Westmont, IL 60559  
 630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-14

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 1 PNAs/BETX/pH/PCBs/ RCRA Metals
0		Gravel and gray silt	1	acetate	100	4.3	
1		End of Borehole					
2		Refusal at 6"					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling Drill Method: Geoprobe Drill Date: 10/15/98	<b>ENSR</b> 740 Pasquinelli Drive Westmont, IL 60559 630-887-1700	Sheet: 1 of 1
--	--	---------------



Project No: 1801-023-710

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Log of Borehole B-15

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 1 PNAs/BETX/pH/PCBs/ RCRA Metals
0.5		<i>Gravel Fill</i> Gravel, trace gray silty clay	1	acetate	100		
1.5		End of Borehole Refusal					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/15/98

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559  
630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-16

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 1 PNAs/BETX/pH/PCBs/ RCRA Metals
0		Gravel and black silt	1	acetate	100	4.3	
1		End of Borehole Refusal at 1'					
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

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 Westmont, IL 60559  
 630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-18

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0 1 2		<i>Silty Clay (CL)</i> Light brown-brown silty clay	1	acetate	100	2.2	PNA's/BETX/pH/PCBs/ RCRA Metals
3 4 5 6 7 8 9 10 11 12 13 14 15		End of Borehole Refusal at 3'					

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/15/98

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559  
630-887-1700

Sheet: 1 of 1

Project No: 1801-023-710 Client: Commonwealth Edison Site: Wii City Power Station

WELL No: MW-1/B-2

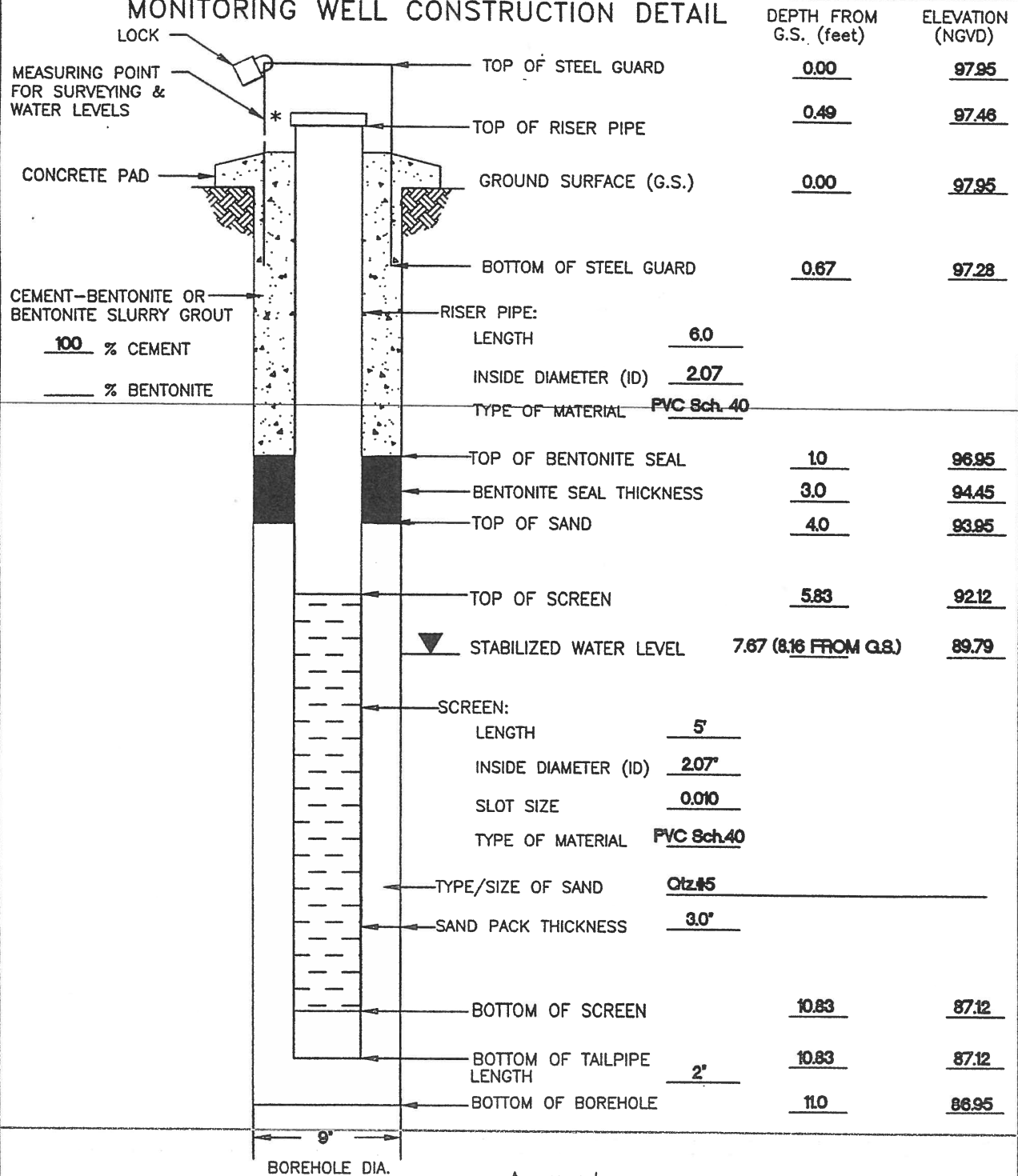
Well Location: Adjacent to B2, near main entrance

Date Installed: 10/18/98

Contractor: FOX DRILLING INC. Method: HSA 4 1/4"

Inspector: B. Buckley

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/18/98

Date

**ENSR**™



Project No: 1801-023-710 Client: Commonwealth Edison Site: Will City Power Station

WELL No: MW-2/B-5

Well Location: Between Ponds 3 and 4 adjacent to B5

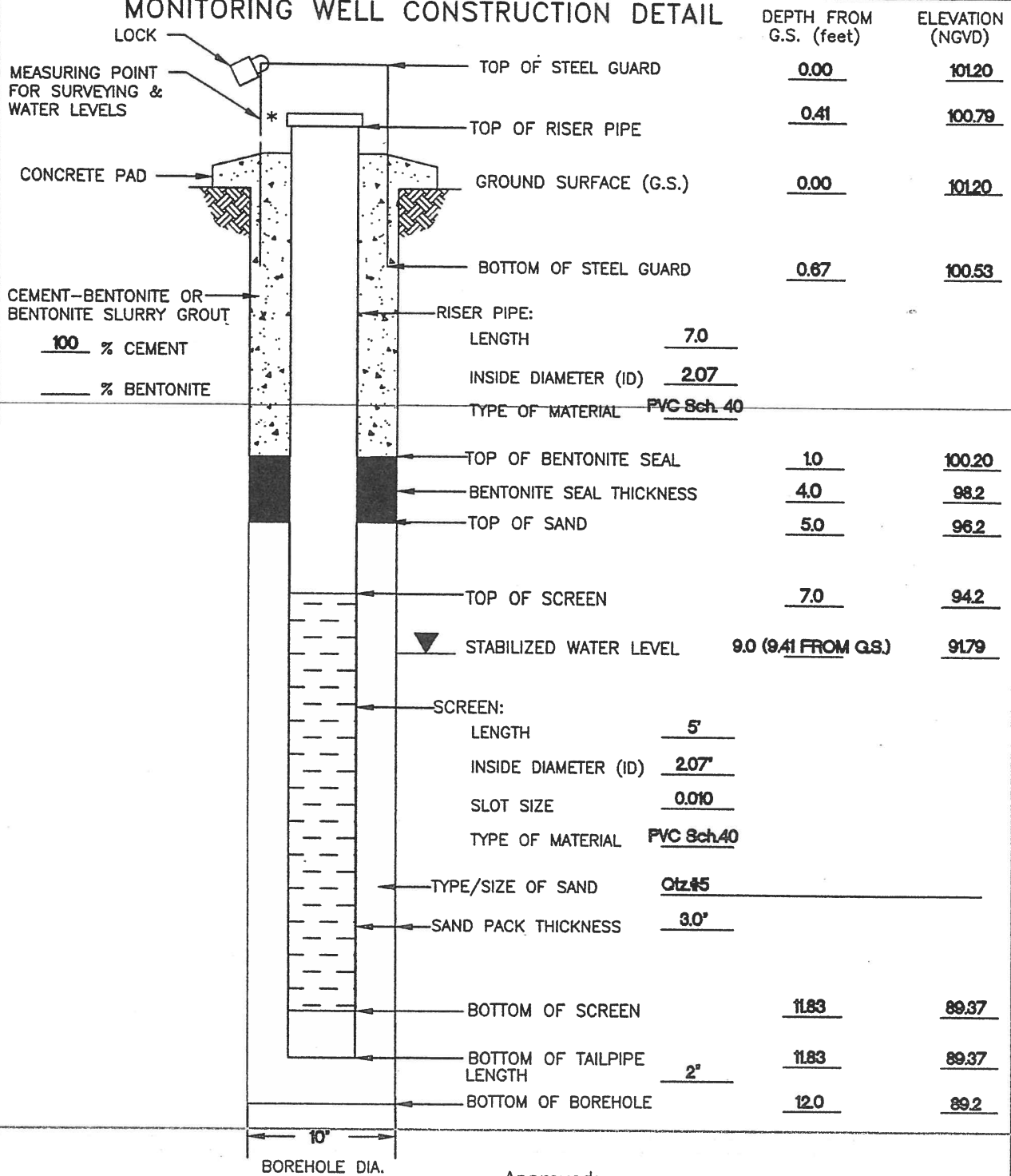
Date Installed: 10/19/98

Contractor: FOX DRILLING INC.

Method: HSA 4 1/4"

Inspector: B. Buckley

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/18/98

Date

**ENSR**™

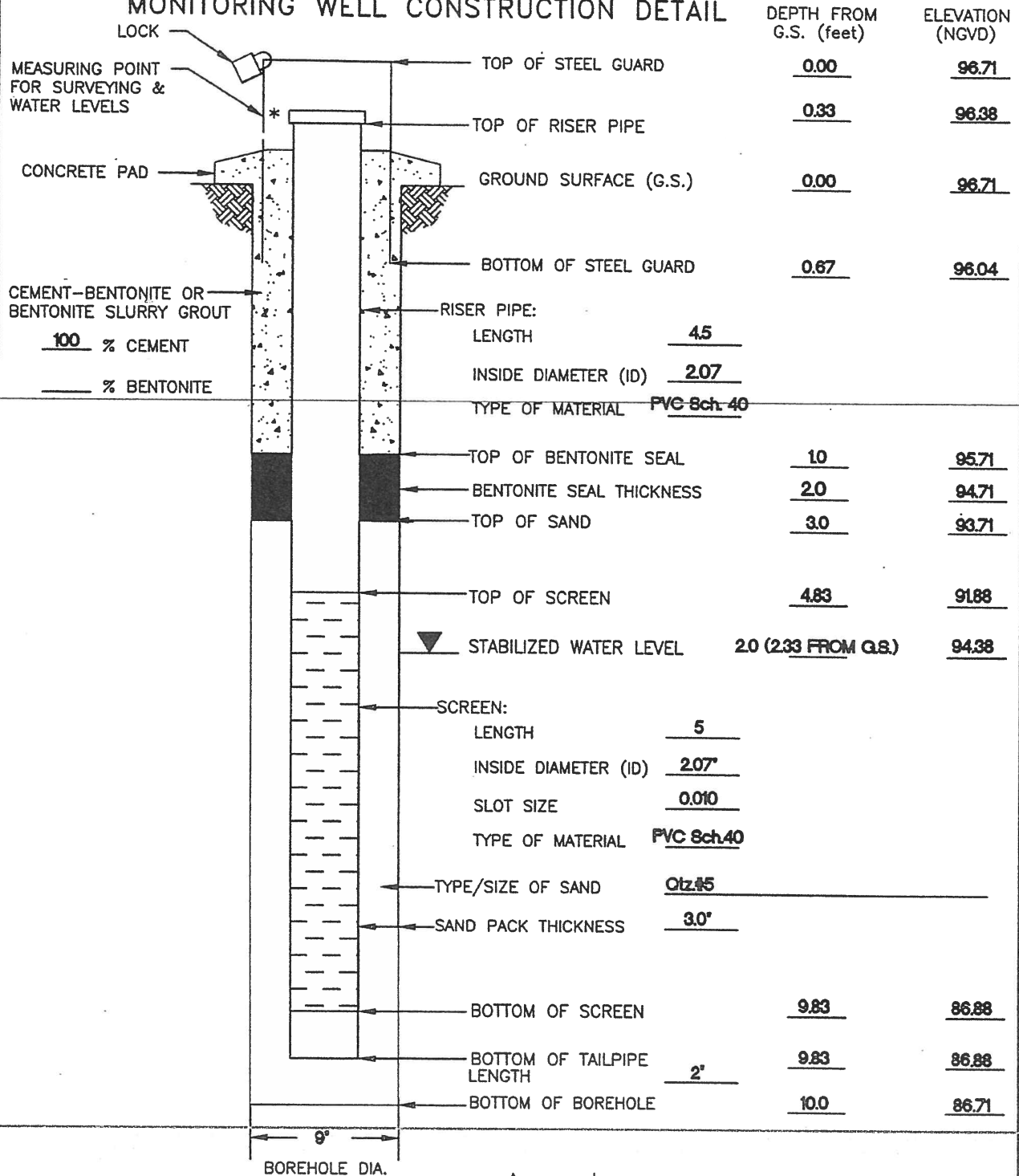
Project No: 101-023-710 Client: Commonwealth Edison Site: Wil City Power Station  
 Well Location: Adjacent to B8, NE corner of Pond 10  
 Contractor: FOX DRILLING INC. Method: HSA 4 1/4"

WELL No: MW-3/B-8

Date Installed: 10/19/98

Inspector: B. Buckley

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature \_\_\_\_\_

10/19/98

Date

**ENSR**™

Project No: 1901-023-710 Client: Commonwealth Edison Site: Will City Power Station

WELL No: MW-4/B-13

Well Location: South of Precipitators, adjacent to B13, south of Chimney #2

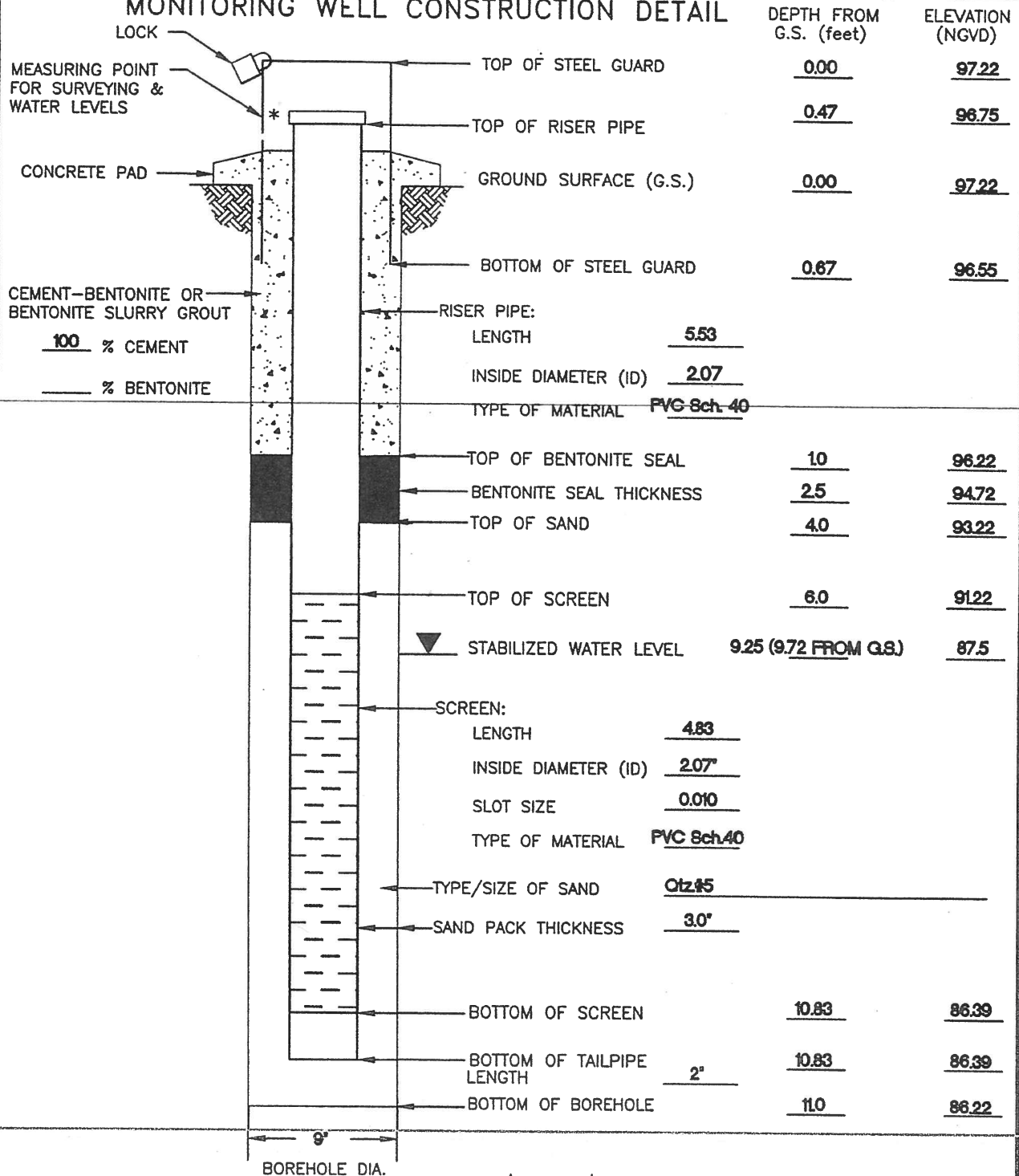
Date Installed: 10/20/98

Contractor: FOX DRILLING INC.

Method: HSA 4 1/4"

Inspector: B. Buckley

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/20/98

Date



Project No: 1801-023-710 Client: Commonwealth Edison Site: Wil City Power Station

WELL No: MW-5/B-10

Well Location: Adjacent to B10, near ASTe

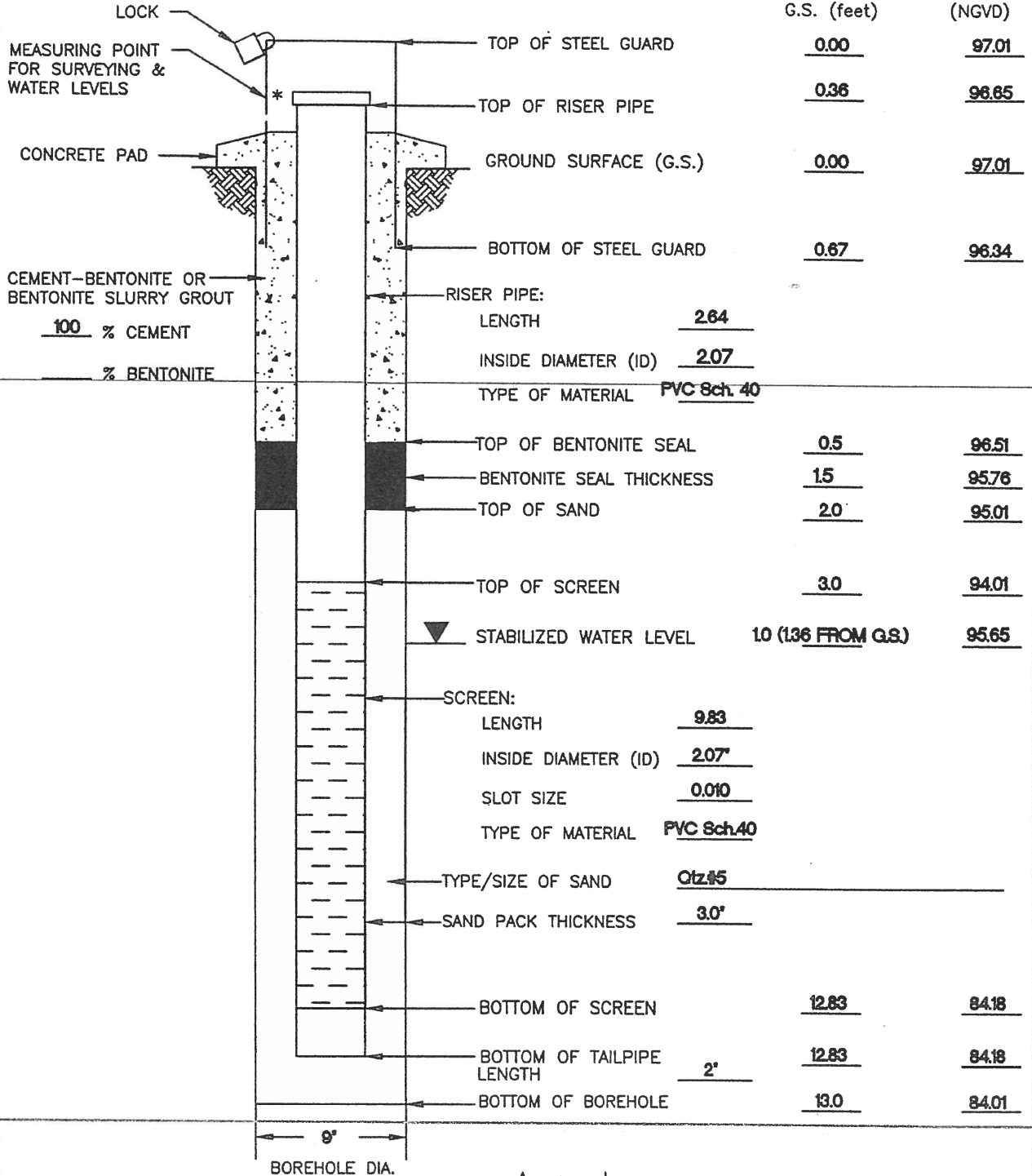
Date Installed: 10/21/98

Contractor: FOX DRILLING INC.

Method: HSA 4 1/4"

Inspector: B. Buckley

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/21/98

Date

**ENSR**™



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**APPENDIX B**  
**Analytical Reports**

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**Phase II Environmental Site Assessment**  
**Commonwealth Edison Company**  
**December 7, 1998**

**Will County Generating Station**  
**529 East Romeo Road**  
**Romeoville, Illinois**

---





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ENVIRONMENTAL  
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(800) 807-2877

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Will County; 1801-023-710

Sample Number	Sample Description	Date Taken	Date Received
498660	S1	10/16/1998	10/16/1998
498661	S24	10/16/1998	10/16/1998
498662	S2	10/16/1998	10/16/1998
498663	S3	10/16/1998	10/16/1998
498664	S4	10/16/1998	10/16/1998
498665	S5	10/16/1998	10/16/1998
498666	S6	10/16/1998	10/16/1998
498667	S7	10/16/1998	10/16/1998
498668	S8	10/16/1998	10/16/1998
498669	S9	10/16/1998	10/16/1998
498670	S10	10/16/1998	10/16/1998
498671	S11	10/16/1998	10/16/1998
498672	S12	10/16/1998	10/16/1998
498673	S13	10/16/1998	10/16/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager





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ENVIRONMENTAL  
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Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Will County; 1801-023-710

Sample Number	Sample Description	Date Taken	Date Received
498674	S14	10/16/1998	10/16/1998
498675	S15	10/16/1998	10/16/1998
498676	S16	10/16/1998	10/16/1998
498677	S17	10/16/1998	10/16/1998
498678	S18	10/16/1998	10/16/1998
498679	S19	10/16/1998	10/16/1998
498680	S20	10/16/1998	10/16/1998
498681	S21	10/16/1998	10/16/1998
498682	S22	10/16/1998	10/16/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager



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(800) 807-2877

**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498660  
NET Job No.: 98.13470

Sample Description: S1  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PH, Non-Aqueous	9.50	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	64.1	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	4.8	mg/kg dw	11/04/1998	0.78	mhp	231 670	SW 7060
Barium, ICP	1,720	mg/kg dw	11/02/1998	1.6	jtt	1161 2176	SW 6010B
Cadmium, ICP	1.0	mg/kg dw	11/02/1998	0.78	jtt	1161 2162	SW 6010B
Chromium, ICP	16	mg/kg dw	11/02/1998	3.1	jtt	1161 2147	SW 6010B
Lead, ICP	23	mg/kg dw	11/04/1998	6.2	kdw	1161 2392	SW 6010B
Mercury, CVAA	0.062	mg/kg dw	11/02/1998	0.062	sep	665 769	SW 7471A
Selenium, GFAA	0.45	mg/kg dw	11/04/1998	0.39	mhp	231 557	SW 7740
Silver, AA	<3.1	mg/kg dw	10/30/1998	3.1	sep	488 568	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<78	mg/kg dw	11/02/1998	78	out	243 488	SW 8015M
TPH as Diesel	<78	mg/kg dw	11/02/1998	78	out	243 488	SW 8015M
TPH as Oil	110	mg/kg dw	11/02/1998	78	out	243 488	SW 8015M
N-octacosane (TPH surr)	123.0	%	11/02/1998		out	243 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.008	mg/kg dw	10/29/1998	0.008	jap	63	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	10/29/1998	0.008	jap	63	SW 8260A
Toluene	<0.008	mg/kg dw	10/29/1998	0.008	jap	63	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	10/29/1998	0.008	jap	63	SW 8260A
Dibromofluoromethane (Surr)	113.0	%	10/29/1998	81-129	jap	63	SW 8260A
Toluene-d8 (Surr)	83.6	%	10/29/1998	74-129	jap	63	SW 8260A
4-Bromofluoromethane (Surr)	67.4 R	%	10/29/1998	70-130	jap	63	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C

R : Surrogate recovery verified by re-analysis



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Fax: (815) 874-5622  
(800) 807-2877

**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498660  
NET Job No.: 98.13470

Sample Description: S1  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
FNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	0.081	mg/kg dw	11/05/1998	0.031	kdw	764 1827	SW 8310
Acenaphthylene	<0.06	mg/kg dw	11/05/1998	0.031	kdw	764 1827	SW 8310
Anthracene	<0.284	mg/kg dw	11/05/1998	0.062	kdw	764 1827	SW 8310
Benzo(a)anthracene	<2.7	mg/kg dw	11/05/1998	0.0041	kdw	764 1827	SW 8310
Benzo(b)fluoranthene	0.10	mg/kg dw	11/05/1998	0.0056	kdw	764 1827	SW 8310
Benzo(k)fluoranthene	<0.075	mg/kg dw	11/05/1998	0.0053	kdw	764 1827	SW 8310
Benzo(a)pyrene	<0.203	mg/kg dw	11/05/1998	0.0072	kdw	764 1827	SW 8310
Benzo(ghi)perylene	<0.1	mg/kg dw	11/05/1998	0.062	kdw	764 1827	SW 8310
Chrysene	<0.11	mg/kg dw	11/05/1998	0.05	kdw	764 1827	SW 8310
Dibenzo(a,h)anthracene	<0.076	mg/kg dw	11/05/1998	0.009	kdw	764 1827	SW 8310
Fluoranthene	0.66	mg/kg dw	11/05/1998	0.031	kdw	764 1827	SW 8310
Fluorene	0.12	mg/kg dw	11/05/1998	0.031	kdw	764 1827	SW 8310
Indeno(1,2,3-cd)pyrene	<0.098	mg/kg dw	11/05/1998	0.013	kdw	764 1827	SW 8310
Naphthalene	0.20	mg/kg dw	11/05/1998	0.039	kdw	764 1827	SW 8310
Phenanthrene	0.36	mg/kg dw	11/05/1998	0.062	kdw	764 1827	SW 8310
Pyrene	0.41	mg/kg dw	11/05/1998	0.031	kdw	764 1827	SW 8310
Surr: p-Terphenyl	Masked		11/05/1998	43-125	kdw	764 1827	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wma	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.062	mg/kg dw	11/06/1998	0.062	tls	377 53	SW 8082
PCB-1221	<0.062	mg/kg dw	11/06/1998	0.062	tls	377 53	SW 8082
PCB-1232	<0.062	mg/kg dw	11/06/1998	0.062	tls	377 53	SW 8082
PCB-1242	<0.062	mg/kg dw	11/06/1998	0.062	tls	377 53	SW 8082
PCB-1248	<0.062	mg/kg dw	11/06/1998	0.062	tls	377 53	SW 8082
PCB-1254	<0.062	mg/kg dw	11/06/1998	0.062	tls	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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Rockford, IL 61109  
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Fax: (815) 874-5622  
(800) 807-2877

ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498660

NET Job No.: 98.13470

Sample Description: S1  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.062	mg/kg dw	11/06/1998	0.062	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	101.0	%	11/06/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	76.0	%	11/06/1998	NA	tls	377 53	SW 8082



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Rockford, IL 61109  
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(800) 807-2877

**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498661  
NET Job No.: 98.13470

Sample Description: S24  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.07	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	96.2	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	0.96	mg/kg dw	11/04/1998	0.52	mhp	231 670	SW 7060
Barium, ICP	20	mg/kg dw	11/02/1998	1.0	jtt	1161 2176	SW 6010B
Cadmium, ICP	0.69	mg/kg dw	11/02/1998	0.52	jtt	1161 2162	SW 6010B
Chromium, ICP	3.6	mg/kg dw	11/02/1998	2.1	jtt	1161 2147	SW 6010B
Lead, ICP	7.9	mg/kg dw	11/04/1998	4.2	kdw	1161 2392	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	11/02/1998	0.042	sep	665 769	SW 7471A
Selenium, GFAA	<2.6	MX mg/kg dw	11/05/1998	0.26	mhp	231 557	SW 7740
Silver, AA	2.2	mg/kg dw	10/30/1998	2.1	sep	488 568	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<52	mg/kg dw	11/02/1998	52	out	243 488	SW 8015M
TPH as Diesel	<52	mg/kg dw	11/02/1998	52	out	243 488	SW 8015M
TPH as Oil	<52	mg/kg dw	11/02/1998	52	out	243 488	SW 8015M
N-octacosane (TPH surr)	118.0	%	11/02/1998		out	243 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/29/1998	0.005	pll	66	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/29/1998	0.005	pll	66	SW 8260A
Toluene	<0.005	mg/kg dw	10/29/1998	0.005	pll	66	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/29/1998	0.005	pll	66	SW 8260A
Dibromofluoromethane (Surr)	98.0	%	10/29/1998	81-129	pll	66	SW 8260A
Toluene-d8 (Surr)	94.0	%	10/29/1998	74-129	pll	66	SW 8260A
4-Bromofluoromethane (Surr)	100.0	%	10/29/1998	70-130	pll	66	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C

MX : Dilution required due to sample matrix; analyte is not detected.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498661

NET Job No.: 98.13470

Sample Description: S24  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.021	mg/kg dw	11/03/1998	0.021	kdw	764 1824	SW 8310
Acenaphthylene	<0.021	mg/kg dw	11/03/1998	0.021	kdw	764 1824	SW 8310
Anthracene	<0.042	mg/kg dw	11/03/1998	0.042	kdw	764 1824	SW 8310
Benzo(a)anthracene	<0.046	MX mg/kg dw	11/03/1998	0.0027	kdw	764 1824	SW 8310
Benzo(b)fluoranthene	0.021	mg/kg dw	11/03/1998	0.0037	kdw	764 1824	SW 8310
Benzo(k)fluoranthene	<0.017	MX mg/kg dw	11/03/1998	0.0035	kdw	764 1824	SW 8310
Benzo(a)pyrene	<0.022	MX mg/kg dw	11/03/1998	0.0048	kdw	764 1824	SW 8310
Benzo(ghi)perylene	<0.042	mg/kg dw	11/03/1998	0.042	kdw	764 1824	SW 8310
Chrysene	<0.03	mg/kg dw	11/03/1998	0.03	kdw	764 1824	SW 8310
Dibenzo(a,h)anthracene	<0.006	mg/kg dw	11/03/1998	0.006	kdw	764 1824	SW 8310
Fluoranthene	0.040	mg/kg dw	11/03/1998	0.021	kdw	764 1824	SW 8310
Fluorene	<0.021	mg/kg dw	11/03/1998	0.021	kdw	764 1824	SW 8310
Indeno(1,2,3-cd)pyrene	0.014	mg/kg dw	11/03/1998	0.0089	kdw	764 1824	SW 8310
Naphthalene	<0.026	mg/kg dw	11/03/1998	0.026	kdw	764 1824	SW 8310
Phenanthrene	<0.042	mg/kg dw	11/03/1998	0.042	kdw	764 1824	SW 8310
Pyrene	0.037	mg/kg dw	11/03/1998	0.021	kdw	764 1824	SW 8310
Surr: p-Terphenyl	102.4	%	11/03/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wma	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.042	mg/kg dw	11/06/1998	0.042	tls	377 53	SW 8082
PCB-1221	<0.042	mg/kg dw	11/06/1998	0.042	tls	377 53	SW 8082
PCB-1232	<0.042	mg/kg dw	11/06/1998	0.042	tls	377 53	SW 8082
PCB-1242	<0.042	mg/kg dw	11/06/1998	0.042	tls	377 53	SW 8082
PCB-1248	<0.042	mg/kg dw	11/06/1998	0.042	tls	377 53	SW 8082
PCB-1254	<0.042	mg/kg dw	11/06/1998	0.042	tls	377 53	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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### ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498661

NET Job No.: 98.13470

Sample Description: S24  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.042	mg/kg dw	11/06/1998	0.042	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	89.0	%	11/06/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	84.0	%	11/06/1998	NA	tls	377 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498662  
NET Job No.: 98.13470

Sample Description: S2  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	5.78	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	94.7	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	2.9	mg/kg dw	11/06/1998	0.53	jtt	233 671	SW 7060
Barium, ICP	475	mg/kg dw	11/02/1998	1.1	jtt	1161 2176	SW 6010B
Cadmium, ICP	1.6	mg/kg dw	11/02/1998	0.53	jtt	1161 2162	SW 6010B
Chromium, ICP	11	mg/kg dw	11/02/1998	2.1	jtt	1161 2147	SW 6010B
Lead, ICP	190	mg/kg dw	11/04/1998	4.2	kdw	1161 2392	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	11/02/1998	0.042	sep	665 769	SW 7471A
Selenium, GFAA	0.26	mg/kg dw	11/05/1998	0.26	mhp	233 558	SW 7740
Silver, AA	<2.1	mg/kg dw	11/02/1998	2.1	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<528	mg/kg dw	11/02/1998	53	out	243 488	SW 8015M
TPH as Diesel	<528	mg/kg dw	11/02/1998	53	out	243 488	SW 8015M
TPH as Oil	126,000 PT	mg/kg dw	11/02/1998	53	out	243 488	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/02/1998		out	243 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/29/1998	0.005	pll	66	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/29/1998	0.005	pll	66	SW 8260A
Toluene	<0.005	mg/kg dw	10/29/1998	0.005	pll	66	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/29/1998	0.005	pll	66	SW 8260A
Dibromofluoromethane (Surr)	108.0	%	10/29/1998	81-129	pll	66	SW 8260A
Toluene-d8 (Surr)	80.0	%	10/29/1998	74-129	pll	66	SW 8260A
4-Bromofluoromethane (Surr)	92.0	%	10/29/1998	70-130	pll	66	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498662  
NET Job No.: 98.13470

Sample Description: S2  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<9.2	mg/kg dw	11/04/1998	0.021	keh	764 1829	SW 8310
Acenaphthylene	<1.7	mg/kg dw	11/04/1998	0.021	keh	764 1829	SW 8310
Anthracene	<3.4	mg/kg dw	11/04/1998	0.042	keh	764 1829	SW 8310
Benzo(a)anthracene	<8.8	mg/kg dw	11/04/1998	0.0027	keh	764 1829	SW 8310
Benzo(b)fluoranthene	<0.30	mg/kg dw	11/04/1998	0.0038	keh	764 1829	SW 8310
Benzo(k)fluoranthene	<0.29	mg/kg dw	11/04/1998	0.0036	keh	764 1829	SW 8310
Benzo(a)pyrene	<0.39	mg/kg dw	11/04/1998	0.0049	keh	764 1829	SW 8310
Benzo(ghi)perylene	<3.4	mg/kg dw	11/04/1998	0.042	keh	764 1829	SW 8310
Chrysene	<2	mg/kg dw	11/04/1998	0.03	keh	764 1829	SW 8310
Dibenzo(a,h)anthracene	<0.5	mg/kg dw	11/04/1998	0.006	keh	764 1829	SW 8310
Fluoranthene	<6.5	mg/kg dw	11/04/1998	0.021	keh	764 1829	SW 8310
Fluorene	<1.7	mg/kg dw	11/04/1998	0.021	keh	764 1829	SW 8310
Indeno(1,2,3-cd)pyrene	<0.73	mg/kg dw	11/04/1998	0.0091	keh	764 1829	SW 8310
Naphthalene	<2.1	mg/kg dw	11/04/1998	0.026	keh	764 1829	SW 8310
Phenanthrene	6.5	mg/kg dw	11/04/1998	0.042	keh	764 1829	SW 8310
Pyrene	<14	mg/kg dw	11/04/1998	0.021	keh	764 1829	SW 8310
Surr: p-Terphenyl	Diluted out		11/04/1998	43-125	keh	764 1829	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.08	mg/kg dw	11/06/1998	0.042	tlc	377 53	SW 8082
PCB-1221	<0.08	mg/kg dw	11/06/1998	0.042	tlc	377 53	SW 8082
PCB-1232	<0.08	mg/kg dw	11/06/1998	0.042	tlc	377 53	SW 8082
PCB-1242	0.23	mg/kg dw	11/06/1998	0.042	tlc	377 53	SW 8082
PCB-1248	<0.08	mg/kg dw	11/06/1998	0.042	tlc	377 53	SW 8082
PCB-1254	<0.08	mg/kg dw	11/06/1998	0.042	tlc	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498662  
NET Job No.: 98.13470

Sample Description: S2  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	7.29	mg/kg dw	11/08/1998	0.042	tls	377 59	SW 8082
Decachlorobiphenyl (Surr)	112.0	%	11/06/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	78.0	%	11/06/1998	NA	tls	377 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498663  
NET Job No.: 98.13470

Sample Description: S3  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:40  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.94	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	85.5	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	2.5	mg/kg dw	11/04/1998	0.58	mhp	231 670	SW 7060
Barium, ICP	175	mg/kg dw	11/03/1998	1.2	jtt	1161 2176	SW 6010B
Cadmium, ICP	<0.58	mg/kg dw	11/02/1998	0.58	jtt	1161 2162	SW 6010B
Chromium, ICP	5.0	mg/kg dw	11/02/1998	2.3	jtt	1161 2147	SW 6010B
Lead, ICP	23	mg/kg dw	11/04/1998	4.7	kdw	1161 2392	SW 6010B
Mercury, CVA	<0.047	mg/kg dw	11/02/1998	0.047	sep	665 769	SW 7471A
Selenium, GFAA	<0.29	mg/kg dw	11/04/1998	0.29	mhp	231 557	SW 7740
Silver, AA	<2.3	mg/kg dw	11/02/1998	2.3	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		xmp	243	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<585	mg/kg dw	11/02/1998	58	out	243 488	SW 8015M
TPH as Diesel	38,700 PT	mg/kg dw	11/02/1998	58	out	243 488	SW 8015M
TPH as Oil	<585	mg/kg dw	11/02/1998	58	out	243 488	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/02/1998		out	243 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/29/1998	0.006	pll	66	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/29/1998	0.006	pll	66	SW 8260A
Toluene	<0.006	mg/kg dw	10/29/1998	0.006	pll	66	SW 8260A
Xylenes, Total	0.0099	mg/kg dw	10/29/1998	0.006	pll	66	SW 8260A
Dibromofluoromethane (Surr)	100.0	%	10/29/1998	81-129	pll	66	SW 8260A
Toluene-d8 (Surr)	92.0	%	10/29/1998	74-129	pll	66	SW 8260A
4-Bromofluoromethane (Surr)	98.0	%	10/29/1998	70-130	pll	66	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the diesel range.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498663

NET Job No.: 98.13470

Sample Description: S3  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:40  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<3.0	mg/kg dw	11/04/1998	0.023	keh	760 1829	SW 8310
Acenaphthylene	<16	mg/kg dw	11/04/1998	0.023	keh	760 1829	SW 8310
Anthracene	<44	mg/kg dw	11/04/1998	0.047	keh	760 1829	SW 8310
Benzo (a) anthracene	<18	mg/kg dw	11/04/1998	0.0030	keh	760 1829	SW 8310
Benzo (b) fluoranthene	<0.55	mg/kg dw	11/04/1998	0.0042	keh	760 1829	SW 8310
Benzo (k) fluoranthene	<0.52	mg/kg dw	11/04/1998	0.0040	keh	760 1829	SW 8310
Benzo (a) pyrene	<0.70	mg/kg dw	11/04/1998	0.0054	keh	760 1829	SW 8310
Benzo (ghi) perylene	<6.1	mg/kg dw	11/04/1998	0.047	keh	760 1829	SW 8310
Chrysene	<8.1	mg/kg dw	11/04/1998	0.04	keh	760 1829	SW 8310
Dibenzo (a,h) anthracene	<0.9	mg/kg dw	11/04/1998	0.007	keh	760 1829	SW 8310
Fluoranthene	<27	mg/kg dw	11/04/1998	0.023	keh	760 1829	SW 8310
Fluorene	<25	mg/kg dw	11/04/1998	0.023	keh	760 1829	SW 8310
Indeno (1, 2, 3-cd) pyrene	<1.3	mg/kg dw	11/04/1998	0.010	keh	760 1829	SW 8310
Naphthalene	<34	mg/kg dw	11/04/1998	0.029	keh	760 1829	SW 8310
Phenanthrene	39	mg/kg dw	11/04/1998	0.047	keh	760 1829	SW 8310
Pyrene	<94	mg/kg dw	11/04/1998	0.023	keh	760 1829	SW 8310
Surr: p-Terphenyl	Diluted out		11/04/1998	43-125	keh	760 1829	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.047	mg/kg dw	11/06/1998	0.047	tls	377 53	SW 8082
PCB-1221	<0.047	mg/kg dw	11/06/1998	0.047	tls	377 53	SW 8082
PCB-1232	<0.047	mg/kg dw	11/06/1998	0.047	tls	377 53	SW 8082
PCB-1242	<0.047	mg/kg dw	11/06/1998	0.047	tls	377 53	SW 8082
PCB-1248	<0.047	mg/kg dw	11/06/1998	0.047	tls	377 53	SW 8082
PCB-1254	<0.047	mg/kg dw	11/06/1998	0.047	tls	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498663

NET Job No.: 98.13470

Sample Description: S3  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:40  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.047	mg/kg dw	11/06/1998	0.047	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	73.0	‡	11/06/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	60.0	‡	11/06/1998	NA	tls	377 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498664

NET Job No.: 98.13470

Sample Description: S4  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:50  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.50	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	77.6	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	2.1	mg/kg dw	11/04/1998	0.64	mhp	231 670	SW 7060
Barium, ICP	348	mg/kg dw	11/03/1998	1.3	jtt	1161 2176	SW 6010B
Cadmium, ICP	4.1	mg/kg dw	11/02/1998	0.64	jtt	1161 2162	SW 6010B
Chromium, ICP	10	mg/kg dw	11/02/1998	2.6	jtt	1161 2147	SW 6010B
Lead, ICP	15	mg/kg dw	11/04/1998	5.2	kdw	1161 2392	SW 6010B
Mercury, CVAA	<0.052	mg/kg dw	11/02/1998	0.052	sep	665 769	SW 7471A
Selenium, GPAA	<0.32	mg/kg dw	11/04/1998	0.32	mhp	231 557	SW 7740
Silver, AA	<2.6	mg/kg dw	11/02/1998	2.6	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015M
<b>TPH MODIFIED 8015</b>							
TPH as Gas	<1,290	mg/kg dw	11/02/1998	64	out	243 488	SW 8015M
TPH as Diesel	188,000 PT	mg/kg dw	11/02/1998	64	out	243 488	SW 8015M
TPH as Oil	<1,290	mg/kg dw	11/02/1998	64	out	243 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	243 488	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/28/1998	0.006	jap	63	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/28/1998	0.006	jap	63	SW 8260A
Toluene	<0.006	mg/kg dw	10/28/1998	0.006	jap	63	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/28/1998	0.006	jap	63	SW 8260A
Dibromofluoromethane (Surr)	103.6	%	10/28/1998	81-129	jap	63	SW 8260A
Toluene-d8 (Surr)	93.4	%	10/28/1998	74-129	jap	63	SW 8260A
4-Bromofluoromethane (Surr)	103.2	%	10/28/1998	70-130	jap	63	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the diesel range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498664  
NET Job No.: 98.13470

Sample Description: S4  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:50  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	14	mg/kg dw	11/04/1998	0.026	kdw	760 1828	SW 8310
Acenaphthylene	<6.2	mg/kg dw	11/04/1998	0.026	kdw	760 1828	SW 8310
Anthracene	<88	mg/kg dw	11/04/1998	0.052	kdw	760 1828	SW 8310
Benzo(a)anthracene	<23	mg/kg dw	11/04/1998	0.0034	kdw	760 1828	SW 8310
Benzo(b)fluoranthene	<1.9	mg/kg dw	11/04/1998	0.0046	kdw	760 1828	SW 8310
Benzo(k)fluoranthene	<0.57	mg/kg dw	11/04/1998	0.0044	kdw	760 1828	SW 8310
Benzo(a)pyrene	<0.64	mg/kg dw	11/04/1998	0.0059	kdw	760 1828	SW 8310
Benzo(ghi)perylene	<3.1	mg/kg dw	11/04/1998	0.052	kdw	760 1828	SW 8310
Chrysene	<15	mg/kg dw	11/04/1998	0.04	kdw	760 1828	SW 8310
Dibenzo(a,h)anthracene	<0.5	mg/kg dw	11/04/1998	0.008	kdw	760 1828	SW 8310
Fluoranthene	<258	mg/kg dw	11/06/1998	0.026	keh	760 1831	SW 8310
Fluorene	98	mg/kg dw	11/04/1998	0.026	kdw	760 1828	SW 8310
Indeno(1,2,3-cd)pyrene	<0.66	mg/kg dw	11/04/1998	0.011	kdw	760 1828	SW 8310
Naphthalene	<22	mg/kg dw	11/04/1998	0.032	kdw	760 1828	SW 8310
Phenanthrene	245	mg/kg dw	11/06/1998	0.052	keh	760 1831	SW 8310
Pyrene	<12	mg/kg dw	11/04/1998	0.026	kdw	760 1828	SW 8310
Surr: p-Terphenyl	Diluted out		11/04/1998	43-125	kdw	760 1828	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS	ELV						
PCB-1016	<0.39	mg/kg dw	11/06/1998	0.052	tls	377 53	SW 8082
PCB-1221	<0.39	mg/kg dw	11/06/1998	0.052	tls	377 53	SW 8082
PCB-1232	<0.39	mg/kg dw	11/06/1998	0.052	tls	377 53	SW 8082
PCB-1242	<0.39	mg/kg dw	11/06/1998	0.052	tls	377 53	SW 8082
PCB-1248	<0.39	mg/kg dw	11/06/1998	0.052	tls	377 53	SW 8082
PCB-1254	<0.39	mg/kg dw	11/06/1998	0.052	tls	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498664

NET Job No.: 98.13470

Sample Description: S4  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 08:50  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.39	mg/kg dw	11/06/1998	0.052	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	93.0	‡	11/06/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	70.0	‡	11/06/1998	NA	tls	377 53	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498665  
NET Job No.: 98.13470

Sample Description: S5  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.06	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	79.0	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	<1.5	MX mg/kg dw	11/04/1998	0.63	mhp	231 670	SW 7060
Barium, ICP	443	mg/kg dw	11/03/1998	1.3	jtt	1161 2176	SW 6010B
Cadmium, ICP	0.67	mg/kg dw	11/02/1998	0.63	jtt	1161 2162	SW 6010B
Chromium, ICP	7.1	mg/kg dw	11/02/1998	2.5	jtt	1161 2147	SW 6010B
Lead, ICP	19	mg/kg dw	11/04/1998	5.1	kdw	1161 2392	SW 6010B
Mercury, CVAA	<0.051	mg/kg dw	11/02/1998	0.051	sep	665 769	SW 7471A
Selenium, GFAA	<0.32	mg/kg dw	11/04/1998	0.32	mhp	231 557	SW 7740
Silver, AA	<2.5	mg/kg dw	11/02/1998	2.5	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<1,270	mg/kg dw	11/02/1998	63	out	243 488	SW 8015M
TPH as Diesel	<1,270	mg/kg dw	11/02/1998	63	out	243 488	SW 8015M
TPH as Oil	933,000	PT mg/kg dw	11/02/1998	63	out	243 488	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/02/1998		out	243 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Dibromofluoromethane (Surr)	94.0	%	10/30/1998	81-129	pll	67	SW 8260A
Toluene-d8 (Surr)	74.0	%	10/30/1998	74-129	pll	67	SW 8260A
4-Bromofluoromethane (Surr)	82.0	%	10/30/1998	70-130	pll	67	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

MX : Dilution required due to sample matrix; analyte is not detected.

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498665

NET Job No.: 98.13470

Sample Description: S5  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<4.5	mg/kg dw	11/05/1998	0.025	keh	760 1829	SW 8310
Acenaphthylene	<4.5	mg/kg dw	11/05/1998	0.025	keh	760 1829	SW 8310
Anthracene	<9.2	mg/kg dw	11/05/1998	0.051	keh	760 1829	SW 8310
Benzo (a) anthracene	<16	mg/kg dw	11/05/1998	0.0033	keh	760 1829	SW 8310
Benzo (b) fluoranthene	5.3	mg/kg dw	11/05/1998	0.0046	keh	760 1829	SW 8310
Benzo (k) fluoranthene	3.4	mg/kg dw	11/05/1998	0.0043	keh	760 1829	SW 8310
Benzo (a) pyrene	<4.3	mg/kg dw	11/05/1998	0.0058	keh	760 1829	SW 8310
Benzo (ghi) perylene	<9.2	mg/kg dw	11/05/1998	0.051	keh	760 1829	SW 8310
Chrysene	<7	mg/kg dw	11/05/1998	0.04	keh	760 1829	SW 8310
Dibenzo (a,h) anthracene	<1	mg/kg dw	11/05/1998	0.008	keh	760 1829	SW 8310
Fluoranthene	23	mg/kg dw	11/05/1998	0.025	keh	760 1829	SW 8310
Fluorene	<9.1	mg/kg dw	11/05/1998	0.025	keh	760 1829	SW 8310
Indeno (1,2,3-cd) pyrene	4.3	mg/kg dw	11/05/1998	0.011	keh	760 1829	SW 8310
Naphthalene	<5.8	mg/kg dw	11/05/1998	0.032	keh	760 1829	SW 8310
Phenanthrene	15	mg/kg dw	11/05/1998	0.051	keh	760 1829	SW 8310
Pyrene	19	mg/kg dw	11/05/1998	0.025	keh	760 1829	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	760 1829	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<2.3	mg/kg dw	11/06/1998	0.051	tls	377 53	SW 8082
PCB-1221	<2.3	mg/kg dw	11/06/1998	0.051	tls	377 53	SW 8082
PCB-1232	<2.3	mg/kg dw	11/06/1998	0.051	tls	377 53	SW 8082
PCB-1242	<2.3	mg/kg dw	11/06/1998	0.051	tls	377 53	SW 8082
PCB-1248	<2.3	mg/kg dw	11/06/1998	0.051	tls	377 53	SW 8082
PCB-1254	<2.3	mg/kg dw	11/06/1998	0.051	tls	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498665  
NET Job No.: 98.13470

Sample Description: S5  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<2.3	mg/kg dw	11/06/1998	0.051	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	108.0	‡	11/06/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	59.0	‡	11/06/1998	NA	tls	377 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498666

NET Job No.: 98.13470

Sample Description: S6  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.75	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	74.5	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	<1.6	MX mg/kg dw	11/04/1998	0.67	mhp	231 670	SW 7060
Barium, ICP	510	mg/kg dw	11/02/1998	1.3	jtt	1161 2176	SW 6010B
Cadmium, ICP	3.1	mg/kg dw	11/02/1998	0.67	jtt	1161 2162	SW 6010B
Chromium, ICP	7.1	mg/kg dw	11/02/1998	2.7	jtt	1161 2147	SW 6010B
Lead, ICP	21	mg/kg dw	11/04/1998	5.4	kdw	1161 2392	SW 6010B
Mercury, CVAA	0.067	mg/kg dw	11/02/1998	0.054	sep	665 769	SW 7471A
Selenium, GFAA	<0.34	mg/kg dw	11/05/1998	0.34	mhp	231 558	SW 7740
Silver, AA	<2.7	mg/kg dw	11/02/1998	2.7	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015M
TPH-MODIFIED-8015							
TPH as Gas	<67	mg/kg dw	11/02/1998	67	out	243 488	SW 8015M
TPH as Diesel	<67	mg/kg dw	11/02/1998	67	out	243 488	SW 8015M
TPH as Oil	741	mg/kg dw	11/02/1998	67	out	243 488	SW 8015M
N-octacosane (TPH surr)	114.0	%	11/02/1998		out	243 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/29/1998	0.007	pll	66	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/29/1998	0.007	pll	66	SW 8260A
Toluene	<0.007	mg/kg dw	10/29/1998	0.007	pll	66	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/29/1998	0.007	pll	66	SW 8260A
Dibromofluoromethane (Surr)	124.0	%	10/29/1998	81-129	pll	66	SW 8260A
Toluene-d8 (Surr)	58.0	R %	10/29/1998	74-129	pll	66	SW 8260A
4-Bromofluoromethane (Surr)	54.0	R %	10/29/1998	70-130	pll	66	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

MX : Dilution required due to sample matrix; analyte is not detected.  
R : Surrogate recovery verified by re-analysis.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498666

NET Job No.: 98.13470

Sample Description: S6  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.86	mg/kg dw	11/05/1998	0.027	kdw	760 1827	SW 8310
Acenaphthylene	<2.4	mg/kg dw	11/05/1998	0.027	kdw	760 1827	SW 8310
Anthracene	<6.7	mg/kg dw	11/05/1998	0.054	kdw	760 1827	SW 8310
Benzo (a) anthracene	<27	mg/kg dw	11/05/1998	0.0035	kdw	760 1827	SW 8310
Benzo (b) fluoranthene	0.74	mg/kg dw	11/05/1998	0.0048	kdw	760 1827	SW 8310
Benzo (k) fluoranthene	<1.2	mg/kg dw	11/05/1998	0.0046	kdw	760 1827	SW 8310
Benzo (a) pyrene	<2.0	mg/kg dw	11/05/1998	0.0062	kdw	760 1827	SW 8310
Benzo (ghi) perylene	<1.7	mg/kg dw	11/05/1998	0.054	kdw	760 1827	SW 8310
Chrysene	<1.37	mg/kg dw	11/05/1998	0.04	kdw	760 1827	SW 8310
Dibenzo (a,h) anthracene	<1.1	mg/kg dw	11/05/1998	0.008	kdw	760 1827	SW 8310
Fluoranthene	5.8	mg/kg dw	11/05/1998	0.027	kdw	760 1827	SW 8310
Fluorene	2.1	mg/kg dw	11/05/1998	0.027	kdw	760 1827	SW 8310
Indeno (1,2,3-cd) pyrene	<1.2	mg/kg dw	11/05/1998	0.012	kdw	760 1827	SW 8310
Naphthalene	2.4	mg/kg dw	11/05/1998	0.034	kdw	760 1827	SW 8310
Phenanthrene	3.6	mg/kg dw	11/05/1998	0.054	kdw	760 1827	SW 8310
Pyrene	3.5	mg/kg dw	11/05/1998	0.027	kdw	760 1827	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	kdw	760 1827	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.054	mg/kg dw	11/06/1998	0.054	tls	377 53	SW 8082
PCB-1221	<0.054	mg/kg dw	11/06/1998	0.054	tls	377 53	SW 8082
PCB-1232	<0.054	mg/kg dw	11/06/1998	0.054	tls	377 53	SW 8082
PCB-1242	<0.054	mg/kg dw	11/06/1998	0.054	tls	377 53	SW 8082
PCB-1248	<0.054	mg/kg dw	11/06/1998	0.054	tls	377 53	SW 8082
PCB-1254	<0.054	mg/kg dw	11/06/1998	0.054	tls	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498666

NET Job No.: 98.13470

Sample Description: S6  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	1.48	mg/kg dw	11/08/1998	0.054	tls	377 59	SW 8082
Decachlorobiphenyl (Surr)	95.0	†	11/06/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	76.0	†	11/06/1998	NA	tls	377 53	SW 8082



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498667  
NET Job No.: 98.13470

Sample Description: S7  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:20  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.54	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	74.9	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	<1.6	MX mg/kg dw	11/04/1998	0.67	mhp	232 670	SW 7060
Barium, ICP	427	mg/kg dw	11/04/1998	1.3	jtt	1162 2178	SW 6010B
Cadmium, ICP	<0.67	mg/kg dw	11/04/1998	0.67	jtt	1162 2165	SW 6010B
Chromium, ICP	2.8	mg/kg dw	11/04/1998	2.7	jtt	1162 2150	SW 6010B
Lead, ICP	13	mg/kg dw	11/04/1998	5.3	kdw	1162 2392	SW 6010B
Mercury, CVAA	<0.053	mg/kg dw	11/02/1998	0.053	sep	665 769	SW 7471A
Selenium, GFAA	<0.33	mg/kg dw	11/05/1998	0.33	mhp	232 558	SW 7740
Silver, AA	<2.7	mg/kg dw	11/02/1998	2.7	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	242	SW 8015M
TPH as Gas	<67	mg/kg dw	11/02/1998	67	out	242 488	SW 8015M
TPH as Diesel	<67	mg/kg dw	11/02/1998	67	out	242 488	SW 8015M
TPH as Oil	1,680	PT mg/kg dw	11/02/1998	67	out	242 488	SW 8015M
N-octacosane (TPH surr)	89.0	%	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/30/1998	0.007	pll	68	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/30/1998	0.007	pll	68	SW 8260A
Toluene	0.0072	mg/kg dw	10/30/1998	0.007	pll	68	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/30/1998	0.007	pll	68	SW 8260A
Dibromofluoromethane (Surr)	120.0	%	10/30/1998	81-129	pll	68	SW 8260A
Toluene-d8 (Surr)	70.0	R %	10/30/1998	74-129	pll	68	SW 8260A
4-Bromofluoromethane (Surr)	66.0	R %	10/30/1998	70-130	pll	68	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

**MX** : Dilution required due to sample matrix; analyte is not detected.

**PT** : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.

**R** : Surrogate recovery verified by re-analysis



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498667

NET Job No.: 98.13470

Sample Description: S7  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:20  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method-- PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.92	mg/kg dw	11/03/1998	0.027	kdw	760 1828	SW 8310
Acenaphthylene	<2.8	mg/kg dw	11/03/1998	0.027	kdw	760 1828	SW 8310
Anthracene	<0.53	mg/kg dw	11/03/1998	0.053	kdw	760 1828	SW 8310
Benzo (a) anthracene	<20	mg/kg dw	11/03/1998	0.0035	kdw	760 1828	SW 8310
Benzo (b) fluoranthene	<1.3	mg/kg dw	11/03/1998	0.0048	kdw	760 1828	SW 8310
Benzo (k) fluoranthene	<0.20	mg/kg dw	11/03/1998	0.0045	kdw	760 1828	SW 8310
Benzo (a) pyrene	<0.83	mg/kg dw	11/03/1998	0.0061	kdw	760 1828	SW 8310
Benzo (ghi) perylene	<0.53	mg/kg dw	11/03/1998	0.053	kdw	760 1828	SW 8310
Chrysene	<2.0	mg/kg dw	11/03/1998	0.04	kdw	760 1828	SW 8310
Dibenzo (a, h) anthracene	<1.0	mg/kg dw	11/03/1998	0.008	kdw	760 1828	SW 8310
Fluoranthene	<1.5	mg/kg dw	11/03/1998	0.027	kdw	760 1828	SW 8310
Fluorene	<1.1	mg/kg dw	11/03/1998	0.027	kdw	760 1828	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.48	mg/kg dw	11/03/1998	0.011	kdw	760 1828	SW 8310
Naphthalene	<1.2	mg/kg dw	11/03/1998	0.033	kdw	760 1828	SW 8310
Phenanthrene	1.0	mg/kg dw	11/03/1998	0.053	kdw	760 1828	SW 8310
Pyrene	<0.69	mg/kg dw	11/03/1998	<0.027	kdw	760 1828	SW 8310
Surr: p-Terphenyl	Masked		11/03/1998	43-125	kdw	760 1828	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.053	mg/kg dw	11/06/1998	0.053	tls	377 53	SW 8082
PCB-1221	<0.053	mg/kg dw	11/06/1998	0.053	tls	377 53	SW 8082
PCB-1232	<0.053	mg/kg dw	11/06/1998	0.053	tls	377 53	SW 8082
PCB-1242	<0.053	mg/kg dw	11/06/1998	0.053	tls	377 53	SW 8082
PCB-1248	<0.053	mg/kg dw	11/06/1998	0.053	tls	377 53	SW 8082
PCB-1254	<0.053	mg/kg dw	11/06/1998	0.053	tls	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498667  
NET Job No.: 98.13470

Sample Description: S7  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:20  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.053	mg/kg dw	11/06/1998	0.053	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	65.0	µ	11/06/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	52.0	µ	11/06/1998	NA	tls	377 53	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498668

NET Job No.: 98.13470

Sample Description: S8  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.49	units	10/23/1998	0.10	nwg	182	SW 9045B
Solids, Total	85.7	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	<1.4	MX mg/kg dw	11/04/1998	0.58	mhp	232 670	SW 7060
Barium, ICP	595	mg/kg dw	11/04/1998	1.2	jtt	1162 2178	SW 6010B
Cadmium, ICP	3.6	mg/kg dw	11/04/1998	0.58	jtt	1162 2165	SW 6010B
Chromium, ICP	12	mg/kg dw	11/04/1998	2.3	jtt	1162 2150	SW 6010B
Lead, ICP	1,130	mg/kg dw	11/04/1998	4.7	jtt	1162 2388	SW 6010B
Mercury, CVAA	0.063	mg/kg dw	11/02/1998	0.047	sep	665 769	SW 7471A
Selenium, GFAA	<0.29	mg/kg dw	11/05/1998	0.29	mhp	232 558	SW 7740
Silver, AA	<2.3	mg/kg dw	11/02/1998	2.3	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	242	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<583	mg/kg dw	11/02/1998	58	out	242 488	SW 8015M
TPH as Diesel	<583	mg/kg dw	11/02/1998	58	out	242 488	SW 8015M
TPH as Oil	3,090	PT mg/kg dw	11/02/1998	58	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	68	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	68	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	pll	68	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	pll	68	SW 8260A
Dibromofluoromethane (Surr)	100.0	%	10/30/1998	81-129	pll	68	SW 8260A
Toluene-d8 (Surr)	76.0	%	10/30/1998	74-129	pll	68	SW 8260A
4-Bromofluoromethane (Surr)	86.0	%	10/30/1998	70-130	pll	68	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

MX : Dilution required due to sample matrix; analyte is not detected.

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498668

NET Job No.: 98.13470

Sample Description: S8  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<2.7	mg/kg dw	11/04/1998	0.023	kdw	760 1828	SW 8310
Acenaphthylene	<11	mg/kg dw	11/04/1998	0.023	kdw	760 1828	SW 8310
Anthracene	<6.9	mg/kg dw	11/04/1998	0.047	kdw	760 1828	SW 8310
Benzo (a) anthracene	<18	mg/kg dw	11/04/1998	0.0030	kdw	760 1828	SW 8310
Benzo (b) fluoranthene	<2.1	mg/kg dw	11/04/1998	0.0042	kdw	760 1828	SW 8310
Benzo (k) fluoranthene	<3.6	mg/kg dw	11/04/1998	0.0040	kdw	760 1828	SW 8310
Benzo (a) pyrene	<0.70	mg/kg dw	11/04/1998	0.0054	kdw	760 1828	SW 8310
Benzo (ghi) perylene	<1.4	mg/kg dw	11/04/1998	0.047	kdw	760 1828	SW 8310
Chrysene	1.8	mg/kg dw	11/04/1998	0.04	kdw	760 1828	SW 8310
Dibenzo (a, h) anthracene	<0.55	mg/kg dw	11/04/1998	0.007	kdw	760 1828	SW 8310
Fluoranthene	<6.7	mg/kg dw	11/04/1998	0.023	kdw	760 1828	SW 8310
Fluorene	<4.0	mg/kg dw	11/04/1998	0.023	kdw	760 1828	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.60	mg/kg dw	11/04/1998	0.010	kdw	760 1828	SW 8310
Naphthalene	<10	mg/kg dw	11/04/1998	0.029	kdw	760 1828	SW 8310
Phenanthrene	6.4	mg/kg dw	11/04/1998	0.047	kdw	760 1828	SW 8310
Pyrene	8.3	mg/kg dw	11/04/1998	0.023	kdw	760 1828	SW 8310
Surr: p-Terphenyl	Diluted out		11/04/1998	43-125	kdw	760 1828	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.047	mg/kg dw	11/07/1998	0.047	t1s	377 53	SW 8082
PCB-1221	<0.047	mg/kg dw	11/07/1998	0.047	t1s	377 53	SW 8082
PCB-1232	<0.047	mg/kg dw	11/07/1998	0.047	t1s	377 53	SW 8082
PCB-1242	<0.047	mg/kg dw	11/07/1998	0.047	t1s	377 53	SW 8082
PCB-1248	<0.047	mg/kg dw	11/07/1998	0.047	t1s	377 53	SW 8082
PCB-1254	<0.047	mg/kg dw	11/07/1998	0.047	t1s	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498668

NET Job No.: 98.13470

Sample Description: S8  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 09:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.047	mg/kg dw	11/07/1998	0.047	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	59.0	%	11/07/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	56.0	%	11/07/1998	NA	tls	377 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498669  
NET Job No.: 98.13470

Sample Description: S9  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.64	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	79.1	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	3.0	mg/kg dw	11/04/1998	0.63	mhp	232 670	SW 7060
Barium, ICP	796	mg/kg dw	11/04/1998	1.3	jtt	1162 2178	SW 6010B
Cadmium, ICP	2.3	mg/kg dw	11/04/1998	0.63	jtt	1162 2165	SW 6010B
Chromium, ICP	20	mg/kg dw	11/04/1998	2.5	jtt	1162 2150	SW 6010B
Lead, ICP	27	mg/kg dw	11/04/1998	5.1	jtt	1162 2388	SW 6010B
Mercury, CVAA	0.087	mg/kg dw	11/02/1998	0.051	sep	665 769	SW 7471A
Selenium, GFAA	0.67	mg/kg dw	11/05/1998	0.32	mhp	232 558	SW 7740
Silver, AA	<2.5	mg/kg dw	11/02/1998	2.5	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	242	SW 8015M
TPH as Gas	<63	mg/kg dw	11/02/1998	63	out	242 488	SW 8015M
TPH as Diesel	<63	mg/kg dw	11/02/1998	63	out	242 488	SW 8015M
TPH as Oil	8,460	PT mg/kg dw	11/02/1998	63	out	242 488	SW 8015M
n-Octacosane (TPH surr)	62.0	%	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	p11	68	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	p11	68	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	p11	68	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	p11	68	SW 8260A
Dibromofluoromethane (Surr)	96.0	%	10/30/1998	81-129	p11	68	SW 8260A
Toluene-d8 (Surr)	86.0	%	10/30/1998	74-129	p11	68	SW 8260A
4-Bromofluoromethane (Surr)	86.0	%	10/30/1998	70-130	p11	68	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
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11/11/1998  
Sample No. : 498669  
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Sample Description: S9  
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IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	12	mg/kg dw	11/03/1998	0.025	kdw	760 1828	SW 8310
Acenaphthylene	<1.1	MX mg/kg dw	11/03/1998	0.025	kdw	760 1828	SW 8310
Anthracene	28	mg/kg dw	11/03/1998	0.051	kdw	760 1828	SW 8310
Benzo (a) anthracene	73	mg/kg dw	11/03/1998	0.0033	kdw	760 1828	SW 8310
Benzo (b) fluoranthene	57	mg/kg dw	11/03/1998	0.0046	kdw	760 1828	SW 8310
Benzo (k) fluoranthene	37	mg/kg dw	11/03/1998	0.0043	kdw	760 1828	SW 8310
Benzo (a) pyrene	71	mg/kg dw	11/03/1998	0.0058	kdw	760 1828	SW 8310
Benzo (ghi) perylene	53	mg/kg dw	11/03/1998	0.051	kdw	760 1828	SW 8310
Chrysene	67	mg/kg dw	11/03/1998	0.04	kdw	760 1828	SW 8310
Dibenzo (a,h) anthracene	7.8	mg/kg dw	11/03/1998	0.008	kdw	760 1828	SW 8310
Fluoranthene	177	mg/kg dw	11/05/1998	0.025	kdw	760 1827	SW 8310
Fluorene	15	mg/kg dw	11/03/1998	0.025	kdw	760 1828	SW 8310
Indeno (1,2,3-cd) pyrene	38	mg/kg dw	11/03/1998	0.011	kdw	760 1828	SW 8310
Naphthalene	4.0	mg/kg dw	11/03/1998	0.032	kdw	760 1828	SW 8310
Phenanthrene	90	mg/kg dw	11/03/1998	0.051	kdw	760 1828	SW 8310
Pyrene	139	mg/kg dw	11/05/1998	0.025	kdw	760 1827	SW 8310
Surr: p-Terphenyl	Diluted out		11/03/1998	43-125	kdw	760 1828	SW 8310
PCB Non-Aqueous Extraction							
PCB'S NON-AQUEOUS	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB-1016	<0.051	mg/kg dw	11/07/1998	0.051	t1s	377 53	SW 8082
PCB-1221	<0.051	mg/kg dw	11/07/1998	0.051	t1s	377 53	SW 8082
PCB-1232	<0.051	mg/kg dw	11/07/1998	0.051	t1s	377 53	SW 8082
PCB-1242	0.094	mg/kg dw	11/07/1998	0.051	t1s	377 53	SW 8082
PCB-1248	<0.051	mg/kg dw	11/07/1998	0.051	t1s	377 53	SW 8082
PCB-1254	<0.051	mg/kg dw	11/07/1998	0.051	t1s	377 53	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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(800) 807-2877

**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498669  
NET Job No.: 98.13470

Sample Description: S9  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.11	mg/kg dw	11/07/1998	0.051	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	87.0	%	11/07/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	78.0	%	11/07/1998	NA	tls	377 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498670

NET Job No.: 98.13470

Sample Description: S10  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:05  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.95	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	87.1	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	5.9	mg/kg dw	11/04/1998	0.57	mhp	232 670	SW 7060
Barium, ICP	1,380	mg/kg dw	11/04/1998	1.1	jtt	1162 2178	SW 6010B
Cadmium, ICP	40	mg/kg dw	11/04/1998	0.57	jtt	1162 2165	SW 6010B
Chromium, ICP	84	mg/kg dw	11/04/1998	2.3	jtt	1162 2150	SW 6010B
Lead, ICP	1,130	mg/kg dw	11/04/1998	4.6	jtt	1162 2388	SW 6010B
Mercury, CVAA	0.14	mg/kg dw	11/02/1998	0.046	sep	665 769	SW 7471A
Selenium, GFAA	3.8	mg/kg dw	11/05/1998	0.29	mhp	232 558	SW 7740
Silver, AA	<2.3	mg/kg dw	11/02/1998	2.3	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	242	SW 8015M
<b>TPH MODIFIED-8015</b>							
TPH as Gas	239	PT mg/kg dw	11/02/1998	57	out	242 488	SW 8015M
TPH as Diesel	1,090	PT mg/kg dw	11/02/1998	57	out	242 488	SW 8015M
TPH as Oil	<57	mg/kg dw	11/02/1998	57	out	242 488	SW 8015M
N-octacosane (TPH surr)	65.0	%	11/02/1998		out	242 488	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	68	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	68	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	pll	68	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	pll	68	SW 8260A
Dibromofluoromethane (Surr)	86.0	%	10/30/1998	81-129	pll	68	SW 8260A
Toluene-d8 (Surr)	80.0	%	10/30/1998	74-129	pll	68	SW 8260A
4-Bromofluoromethane (Surr)	94.0	%	10/30/1998	70-130	pll	68	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the gas/diesel range.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR.  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498670  
NET Job No.: 98.13470

Sample Description: S10  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:05  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<5.6	mg/kg dw	11/05/1998	0.023	keh	760 1829	SW 8310
Acenaphthylene	<1.0	mg/kg dw	11/05/1998	0.023	keh	760 1829	SW 8310
Anthracene	3.9	mg/kg dw	11/05/1998	0.046	keh	760 1829	SW 8310
Benzo (a) anthracene	16	mg/kg dw	11/05/1998	0.0030	keh	760 1829	SW 8310
Benzo (b) fluoranthene	14	mg/kg dw	11/05/1998	0.0041	keh	760 1829	SW 8310
Benzo (k) fluoranthene	6.8	mg/kg dw	11/05/1998	0.0039	keh	760 1829	SW 8310
Benzo (a) pyrene	6.4	mg/kg dw	11/05/1998	0.0053	keh	760 1829	SW 8310
Benzo (ghi) perylene	11	mg/kg dw	11/05/1998	0.046	keh	760 1829	SW 8310
Chrysene	11	mg/kg dw	11/05/1998	0.03	keh	760 1829	SW 8310
Dibenzo (a, h) anthracene	1.4	mg/kg dw	11/05/1998	0.007	keh	760 1829	SW 8310
Fluoranthene	23	mg/kg dw	11/05/1998	0.023	keh	760 1829	SW 8310
Fluorene	2.5	mg/kg dw	11/05/1998	0.023	keh	760 1829	SW 8310
Indeno (1, 2, 3-cd) pyrene	9.2	mg/kg dw	11/05/1998	0.0099	keh	760 1829	SW 8310
Naphthalene	<1.3	mg/kg dw	11/05/1998	0.029	keh	760 1829	SW 8310
Phenanthrene	15	mg/kg dw	11/05/1998	0.046	keh	760 1829	SW 8310
Pyrene	17	mg/kg dw	11/05/1998	0.023	keh	760 1829	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	760 1829	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.046	mg/kg dw	11/07/1998	0.046	tls	377 53	SW 8082
PCB-1221	<0.046	mg/kg dw	11/07/1998	0.046	tls	377 53	SW 8082
PCB-1232	<0.046	mg/kg dw	11/07/1998	0.046	tls	377 53	SW 8082
PCB-1242	0.149	mg/kg dw	11/07/1998	0.046	tls	377 53	SW 8082
PCB-1248	<0.046	mg/kg dw	11/07/1998	0.046	tls	377 53	SW 8082
PCB-1254	0.299	mg/kg dw	11/07/1998	0.046	tls	377 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498670  
NET Job No.: 98.13470

Sample Description: S10  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:05  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.046	mg/kg dw	11/07/1998	0.046	tls	377 53	SW 8082
Decachlorobiphenyl (Surr)	100.0	%	11/07/1998	NA	tls	377 53	SW 8082
2,4,5,6-TCMX (Surr)	85.0	%	11/07/1998	NA	tls	377 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498671  
NET Job No.: 98.13470

Sample Description: S11  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.99	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	89.4	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	7.7	mg/kg dw	11/04/1998	0.56	mhp	232 670	SW 7060
Barium, ICP	2,680	mg/kg dw	11/04/1998	1.1	jtt	1162 2178	SW 6010B
Cadmium, ICP	1.7	mg/kg dw	11/04/1998	0.56	jtt	1162 2165	SW 6010B
Chromium, ICP	88	mg/kg dw	11/04/1998	2.2	jtt	1162 2150	SW 6010B
Lead, ICP	89	mg/kg dw	11/04/1998	4.5	jtt	1162 2388	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	11/02/1998	0.045	sep	665 769	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/05/1998	0.28	mhp	232 558	SW 7740
Silver, AA	2.6	mg/kg dw	11/02/1998	2.2	sep	489 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	242	SW 8015M
TPH as Gas	<56	mg/kg dw	11/02/1998	56	out	242 488	SW 8015M
TPH as Diesel	<56	mg/kg dw	11/02/1998	56	out	242 488	SW 8015M
TPH as Oil	215	mg/kg dw	11/02/1998	56	out	242 488	SW 8015M
N-octacosane (TPH surr)	71.0	%	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Dibromofluoromethane (Surr)	84.0	%	10/30/1998	81-129	pll	67	SW 8260A
Toluene-d8 (Surr)	82.0	%	10/30/1998	74-129	pll	67	SW 8260A
4-Bromofluoromethane (Surr)	86.0	%	10/30/1998	70-130	pll	67	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498671  
NET Job No.: 98.13470

Sample Description: S11  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
FNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.22	mg/kg dw	10/30/1998	0.022	kdw	760 1821	SW 8310
Acenaphthylene	<0.22	mg/kg dw	10/30/1998	0.022	kdw	760 1821	SW 8310
Anthracene	1.1	mg/kg dw	10/30/1998	0.045	kdw	760 1821	SW 8310
Benzo(a)anthracene	4.6	mg/kg dw	10/30/1998	0.0029	kdw	760 1821	SW 8310
Benzo(b)fluoranthene	4.1	mg/kg dw	10/30/1998	0.0040	kdw	760 1821	SW 8310
Benzo(k)fluoranthene	2.7	mg/kg dw	10/30/1998	0.0038	kdw	760 1821	SW 8310
Benzo(a)pyrene	4.7	mg/kg dw	10/30/1998	0.0051	kdw	760 1821	SW 8310
Benzo(ghi)perylene	4.1	mg/kg dw	10/30/1998	0.045	kdw	760 1821	SW 8310
Chrysene	4.5	mg/kg dw	10/30/1998	0.03	kdw	760 1821	SW 8310
Dibenzo(a,h)anthracene	0.62	mg/kg dw	10/30/1998	0.007	kdw	760 1821	SW 8310
Fluoranthene	9.4	mg/kg dw	10/30/1998	0.022	kdw	760 1821	SW 8310
Fluorene	0.50	mg/kg dw	10/30/1998	0.022	kdw	760 1821	SW 8310
Indeno(1,2,3-cd)pyrene	3.9	mg/kg dw	10/30/1998	0.0096	kdw	760 1821	SW 8310
Naphthalene	<0.28	mg/kg dw	10/30/1998	0.028	kdw	760 1821	SW 8310
Phenanthrene	3.8	mg/kg dw	10/30/1998	0.045	kdw	760 1821	SW 8310
Pyrene	7.2	mg/kg dw	10/30/1998	0.022	kdw	760 1821	SW 8310
Surr: p-Terphenyl	Masked		10/30/1998	43-125	kdw	760 1821	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	11/07/1998	0.045	tls	377 59	SW 8082
PCB-1221	<0.045	mg/kg dw	11/11/1998	0.045	tls	377 62	SW 8082
PCB-1232	<0.045	mg/kg dw	11/07/1998	0.045	tls	377 59	SW 8082
PCB-1242	<0.045	mg/kg dw	11/07/1998	0.045	tls	377 59	SW 8082
PCB-1248	<0.045	mg/kg dw	11/07/1998	0.045	tls	377 59	SW 8082
PCB-1254	<0.045	mg/kg dw	11/07/1998	0.045	tls	377 59	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498671  
NET Job No.: 98.13470

Sample Description: S11  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.045	mg/kg dw	11/07/1998	0.045	tls	377 59	SW 8082
Decachlorobiphenyl (Surr)	113.0	†	11/07/1998	NA	tls	377 59	SW 8082
2,4,5,6-TCMX (Surr)	101.0	†	11/07/1998	NA	tls	377 59	SW 8082



Project No: 1801-023-710


Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Log of Borehole B-6

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					PNAs/BETX/pH/PCBs/ RCRA Metals
0		2" organic material					
1		Gravel with light brown-black silt	1	acetate	100	NA	
2		End-of-Borehole					
3		Refusal at 2' (hard rock)					
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

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Sheet: 1 of 1



Project No: 1801-023-710


Log of Borehole B-7

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0		<i>Fill</i> Gravel w/ coal ash	1	acetate	100	<1	PNAs/BETX/pH/PCBs/ RCRA Metals
1		End of Borehole Refusal at 1' (hard rock)					
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

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 740 Pasquinelli Drive  
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 630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-8

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0		Fill Gravel fill	1	acetate	100	<1	PNAs/BETX/pH/PCBs/ RCRA Metals
1		End of Borehole Refusal at 1'(hard rock)					
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

ENSR  
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 630-887-1700

Sheet: 1 of 1





Project No: 1801-023-710

Log of Borehole B-9

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 1 PNAs/BETX/pH/PCBs/ RCRA Metals
0		Coal	1	acetate	100	0.0	
1		End of Borehole					
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

ENSR  
 740 Pasquinelli Drive  
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 630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-10

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 1 PNAs/BETX/pH/PCBs/ RCRA Metals
0		Coal and gravel, odor	1	acetate	100	51.8	
1		End of Borehole Refusal at 1'					
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

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 630-887-1700

Sheet: 1 of 1



Project No: 1801-023-710

Log of Borehole B-11

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Will County Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					PNAs/BETX/pH/PCBs/ RCRA Metals
0		Coal and gravel	1	acetate	100	11.1	
1		End of Borehole					
2		Refusal at 1'					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/15/98

ENSR  
 740 Pasquinelli Drive  
 Westmont, IL 60559  
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Sheet: 1 of 1



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498672

NET Job No.: 98.13470

Sample Description: S12  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.64	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	98.4	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	7.1	mg/kg dw	11/04/1998	0.51	mhp	232 670	SW 7060
Barium, ICP	549	mg/kg dw	11/04/1998	1.0	jtt	1162 2178	SW 6010B
Cadmium, ICP	3.5	mg/kg dw	11/04/1998	0.51	jtt	1162 2165	SW 6010B
Chromium, ICP	25	mg/kg dw	11/04/1998	2.0	jtt	1162 2150	SW 6010B
Lead, ICP	132	mg/kg dw	11/04/1998	4.1	jtt	1162 2388	SW 6010B
Mercury, CVAA	1.0	mg/kg dw	11/02/1998	0.041	sep	665 769	SW 7471A
Selenium, GFAA	0.33	mg/kg dw	11/05/1998	0.25	mhp	232 558	SW 7740
Silver, AA	5.3	mg/kg dw	11/02/1998	2.0	sep	492 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	242	SW 8015M
TPH as Gas	<1.020	mg/kg dw	11/02/1998	51	out	242 488	SW 8015M
TPH as Diesel	<1.020	mg/kg dw	11/02/1998	51	out	242 488	SW 8015M
TPH as Oil	67,000 PT	mg/kg dw	11/02/1998	51	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/30/1998	0.005	pll	68	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/30/1998	0.005	pll	68	SW 8260A
Toluene	<0.005	mg/kg dw	10/30/1998	0.005	pll	68	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/30/1998	0.005	pll	68	SW 8260A
Dibromofluoromethane (Surr)	104.0	%	10/30/1998	81-129	pll	68	SW 8260A
Toluene-d8 (Surr)	82.0	%	10/30/1998	74-129	pll	68	SW 8260A
4-Bromofluoromethane (Surr)	88.0	%	10/30/1998	70-130	pll	68	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	760	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498672  
NET Job No.: 98.13470

Sample Description: S12  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.72	mg/kg dw	11/03/1998	0.020	kdw	760 1828	SW 8310
Acenaphthylene	<0.72	mg/kg dw	11/03/1998	0.020	kdw	760 1828	SW 8310
Anthracene	<1.5	mg/kg dw	11/03/1998	0.041	kdw	760 1828	SW 8310
Benzo(a)anthracene	3.8	mg/kg dw	11/04/1998	0.0026	kdw	760 1827	SW 8310
Benzo(b)fluoranthene	4.6	mg/kg dw	11/03/1998	0.0037	kdw	760 1828	SW 8310
Benzo(k)fluoranthene	2.6	mg/kg dw	11/03/1998	0.0035	kdw	760 1828	SW 8310
Benzo(a)pyrene	2.6	mg/kg dw	11/03/1998	0.0047	kdw	760 1828	SW 8310
Benzo(ghi)perylene	5.6	mg/kg dw	11/03/1998	0.041	kdw	760 1828	SW 8310
Chrysene	3.2	mg/kg dw	11/03/1998	0.03	kdw	760 1828	SW 8310
Dibenzo(a,h)anthracene	0.44	mg/kg dw	11/03/1998	0.006	kdw	760 1828	SW 8310
Fluoranthene	5.3	mg/kg dw	11/03/1998	0.020	kdw	760 1828	SW 8310
Fluorene	<0.72	mg/kg dw	11/03/1998	0.020	kdw	760 1828	SW 8310
Indeno(1,2,3-cd)pyrene	3.7	mg/kg dw	11/03/1998	0.0087	kdw	760 1828	SW 8310
Naphthalene	<0.90	mg/kg dw	11/03/1998	0.025	kdw	760 1828	SW 8310
Phenanthrene	2.2	mg/kg dw	11/03/1998	0.041	kdw	760 1828	SW 8310
Pyrene	5.6	mg/kg dw	11/03/1998	0.020	kdw	760 1828	SW 8310
Surr: p-Terphenyl	Diluted out		11/03/1998	43-125	kdw	760 1828	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.08	mg/kg dw	11/08/1998	0.041	tls	378 59	SW 8082
PCB-1221	<0.08	mg/kg dw	11/08/1998	0.041	tls	378 59	SW 8082
PCB-1232	<0.08	mg/kg dw	11/08/1998	0.041	tls	378 59	SW 8082
PCB-1242	<0.08	mg/kg dw	11/08/1998	0.041	tls	378 59	SW 8082
PCB-1248	<0.08	mg/kg dw	11/08/1998	0.041	tls	378 59	SW 8082
PCB-1254	0.39	mg/kg dw	11/08/1998	0.041	tls	378 59	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498672

NET Job No.: 98.13470

Sample Description: S12  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.08	mg/kg dw	11/08/1998	0.041	tls	378 59	SW 8082
Decachlorobiphenyl (Surr)	84.0	%	11/08/1998	NA	tls	378 59	SW 8082
2,4,5,6-TCMX (Surr)	86.0	%	11/08/1998	NA	tls	378 59	SW 8082



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498673

NET Job No.: 98.13470

Sample Description: S13  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.52	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	94.4	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	4.6	mg/kg dw	11/06/1998	0.53	jtt	233 671	SW 7060
Barium, ICP	498	mg/kg dw	11/04/1998	1.1	jtt	1162 2178	SW 6010B
Cadmium, ICP	2.3	mg/kg dw	11/04/1998	0.53	jtt	1162 2165	SW 6010B
Chromium, ICP	51	mg/kg dw	11/04/1998	2.1	jtt	1162 2150	SW 6010B
Lead, ICP	117	mg/kg dw	11/04/1998	4.2	jtt	1162 2388	SW 6010B
Mercury, CVAA	0.064	mg/kg dw	11/02/1998	0.042	sep	665 769	SW 7471A
Selenium, GFAA	0.60	mg/kg dw	11/05/1998	0.26	mhp	233 558	SW 7740
Silver, AA	<2.1	mg/kg dw	11/04/1998	2.1	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	242	SW 8015M
TPH as Gas	<5,300	mg/kg dw	11/02/1998	53	out	242 488	SW 8015M
TPH as Diesel	<5,300	mg/kg dw	11/02/1998	53	out	242 488	SW 8015M
TPH as Oil	146,000 PT	mg/kg dw	11/02/1998	53	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Toluene	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Dibromofluoromethane (Surr)	94.0	%	10/30/1998	81-129	pll	67	SW 8260A
Toluene-d8 (Surr)	80.0	%	10/30/1998	74-129	pll	67	SW 8260A
4-Bromofluoromethane (Surr)	90.0	%	10/30/1998	70-130	pll	67	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
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11/11/1998  
Sample No. : 498673  
NET Job No.: 98.13470

Sample Description: S13  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
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WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<1.8	mg/kg dw	11/07/1998	0.021	keh	761 1832	SW 8310
Acenaphthylene	<1.8	mg/kg dw	11/07/1998	0.021	keh	761 1832	SW 8310
Anthracene	<3.6	mg/kg dw	11/07/1998	0.042	keh	761 1832	SW 8310
Benzo(a)anthracene	<5.7	mg/kg dw	11/07/1998	0.0028	keh	761 1832	SW 8310
Benzo(b)fluoranthene	<1.7	mg/kg dw	11/07/1998	0.0038	keh	761 1832	SW 8310
Benzo(k)fluoranthene	<1.1	mg/kg dw	11/07/1998	0.0036	keh	761 1832	SW 8310
Benzo(a)pyrene	<0.42	mg/kg dw	11/07/1998	0.0049	keh	761 1832	SW 8310
Benzo(ghi)perylene	<3.6	mg/kg dw	11/07/1998	0.042	keh	761 1832	SW 8310
Chrysene	<3	mg/kg dw	11/07/1998	0.03	keh	761 1832	SW 8310
Dibenzo(a,h)anthracene	<0.5	mg/kg dw	11/07/1998	0.006	keh	761 1832	SW 8310
Fluoranthene	<1.8	mg/kg dw	11/07/1998	0.021	keh	761 1832	SW 8310
Fluorene	<1.8	mg/kg dw	11/07/1998	0.021	keh	761 1832	SW 8310
Indeno(1,2,3-cd)pyrene	<0.77	mg/kg dw	11/07/1998	0.0091	keh	761 1832	SW 8310
Naphthalene	<2.2	mg/kg dw	11/07/1998	0.026	keh	761 1832	SW 8310
Phenanthrene	<3.6	mg/kg dw	11/07/1998	0.042	keh	761 1832	SW 8310
Pyrene	<1.8	mg/kg dw	11/07/1998	0.021	keh	761 1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	761 1832	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.17	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1221	<0.17	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1232	<0.17	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1242	<0.17	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1248	<0.17	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1254	0.59	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082

ELV : Elevated reporting limits due to matrix interference.





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR.  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498673

NET Job No.: 98.13470

Sample Description: S13  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.17	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082
Decachlorobiphenyl (Surr)	81.0	%	11/08/1998	NA	tls	378 59	SW 8082
2,4,5,6-TCMX (Surr)	82.0	%	11/08/1998	NA	tls	378 59	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498674

NET Job No.: 98.13470

Sample Description: S14  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.50	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	96.3	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	21	mg/kg dw	11/04/1998	0.52	mhp	232 670	SW 7060
Barium, ICP	166	mg/kg dw	11/04/1998	1.0	jtt	1162 2178	SW 6010B
Cadmium, ICP	8.7	mg/kg dw	11/04/1998	0.52	jtt	1162 2165	SW 6010B
Chromium, ICP	104	mg/kg dw	11/04/1998	2.1	jtt	1162 2150	SW 6010B
Lead, ICP	498	mg/kg dw	11/04/1998	4.2	jtt	1162 2388	SW 6010B
Mercury, CVAA	0.20	mg/kg dw	11/02/1998	0.042	sep	665 769	SW 7471A
Selenium, GFAA	6.6	M+ mg/kg dw	11/05/1998	0.26	mhp	232 558	SW 7740
Silver, AA	2.4	mg/kg dw	11/04/1998	2.1	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	242	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	292	PT mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
TPH as Diesel	<52	mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
TPH as Oil	5,180	PT mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
N-octacosane (TPH surr)	42.0	%	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/30/1998	0.005	p11	67	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/30/1998	0.005	p11	67	SW 8260A
Toluene	<0.005	mg/kg dw	10/30/1998	0.005	p11	67	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/30/1998	0.005	p11	67	SW 8260A
Dibromofluoromethane (Surr)	100.0	%	10/30/1998	81-129	p11	67	SW 8260A
Toluene-d8 (Surr)	70.0	R %	10/30/1998	74-129	p11	67	SW 8260A
4-Bromofluoromethane (Surr)	74.0	%	10/30/1998	70-130	p11	67	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

M+ : Analyte quantified by MSA due to low spike recovery.

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the gas/oil range.

R : Surrogate recovery verified by re-analysis



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**ANALYTICAL REPORT**

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11/11/1998  
Sample No. : 498674  
NET Job No.: 98.13470

Sample Description: S14  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
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Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<4.2	mg/kg dw	10/31/1998	0:021	kdw	761 1822	SW 8310
Acenaphthylene	<2.1	mg/kg dw	10/31/1998	0.021	kdw	761 1822	SW 8310
Anthracene	7.3	mg/kg dw	10/31/1998	0.042	kdw	761 1822	SW 8310
Benzo (a) anthracene	18	mg/kg dw	10/31/1998	0.0027	kdw	761 1822	SW 8310
Benzo (b) fluoranthene	19	mg/kg dw	10/31/1998	0.0037	kdw	761 1822	SW 8310
Benzo (k) fluoranthene	<13	mg/kg dw	10/31/1998	0.0035	kdw	761 1822	SW 8310
Benzo (a) pyrene	8.4	mg/kg dw	10/31/1998	0.0048	kdw	761 1822	SW 8310
Benzo (ghi) perylene	21	mg/kg dw	10/31/1998	0.042	kdw	761 1822	SW 8310
Chrysene	22	mg/kg dw	10/31/1998	0.03	kdw	761 1822	SW 8310
Dibenzo (a, h) anthracene	3.1	mg/kg dw	10/31/1998	0.006	kdw	761 1822	SW 8310
Fluoranthene	55	mg/kg dw	10/31/1998	0.021	kdw	761 1822	SW 8310
Fluorene	<5.6	mg/kg dw	10/31/1998	0.021	kdw	761 1822	SW 8310
Indeno (1, 2, 3-cd) pyrene	15	mg/kg dw	10/31/1998	0.0089	kdw	761 1822	SW 8310
Naphthalene	<2.6	mg/kg dw	10/31/1998	0.026	kdw	761 1822	SW 8310
Phenanthrene	26	mg/kg dw	10/31/1998	0.042	kdw	761 1822	SW 8310
Pyrene	34	mg/kg dw	10/31/1998	0.021	kdw	761 1822	SW 8310
Surr: p-Terphenyl	Diluted out		10/31/1998	43-125	kdw	761 1822	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS	ELV						
PCB-1016	<0.2	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1221	<0.2	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1232	<0.2	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1242	<0.2	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1248	<0.2	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082
PCB-1254	0.55	mg/kg dw	11/08/1998	0.042	t1s	378 59	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498674

NET Job No.: 98.13470

Sample Description: S14  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.2	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082
Decachlorobiphenyl (Surr)	107.0	%	11/08/1998	NA	tls	378 59	SW 8082
2,4,5,6-TCMX (Surr)	82.0	%	11/08/1998	NA	tls	378 59	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498675  
NET Job No.: 98.13470

Sample Description: S15  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:35  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.52	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	90.9	‡	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	5.8	mg/kg dw	11/04/1998	0.55	mhp	232 670	SW 7060
Barium, ICP	2,090	mg/kg dw	11/04/1998	1.1	jtt	1162 2178	SW 6010B
Cadmium, ICP	4.8	mg/kg dw	11/04/1998	0.55	jtt	1162 2165	SW 6010B
Chromium, ICP	50	mg/kg dw	11/04/1998	2.2	jtt	1162 2150	SW 6010B
Lead, ICP	132	mg/kg dw	11/04/1998	4.4	jtt	1162 2388	SW 6010B
Mercury, CVAA	0.10	mg/kg dw	11/02/1998	0.044	sep	665 769	SW 7471A
Selenium, GFAA	0.31	mg/kg dw	11/05/1998	0.28	mhp	232 558	SW 7740
Silver, AA	<2.2	mg/kg dw	11/04/1998	2.2	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	242	SW 8015M
TPH as Gas	224	PT mg/kg dw	11/02/1998	55	out	242 488	SW 8015M
TPH as Diesel	<55	mg/kg dw	11/02/1998	55	out	242 488	SW 8015M
TPH as Oil	5,130	PT mg/kg dw	11/02/1998	55	out	242 488	SW 8015M
N-octacosane (TPH surr)	57.0	‡	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	p11	65	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	p11	65	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	p11	65	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	p11	65	SW 8260A
Dibromofluoromethane (Surr)	94.0	‡	10/30/1998	81-129	p11	65	SW 8260A
Toluene-d8 (Surr)	82.0	‡	10/30/1998	74-129	p11	65	SW 8260A
4-Bromofluoromethane (Surr)	70.0	‡	10/30/1998	70-130	p11	65	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the gas/oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498675

NET Job No.: 98.13470

Sample Description: S15  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:35  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<5.6	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Acenaphthylene	<1.3	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Anthracene	<2.6	mg/kg dw	11/05/1998	0.044	keh	761 1829	SW 8310
Benzo (a) anthracene	8.5	mg/kg dw	11/05/1998	0.0029	keh	761 1829	SW 8310
Benzo (b) fluoranthene	9.8	mg/kg dw	11/05/1998	0.0040	keh	761 1829	SW 8310
Benzo (k) fluoranthene	4.7	mg/kg dw	11/05/1998	0.0037	keh	761 1829	SW 8310
Benzo (a) pyrene	6.1	mg/kg dw	11/05/1998	0.0051	keh	761 1829	SW 8310
Benzo (ghi) perylene	5.9	mg/kg dw	11/05/1998	0.044	keh	761 1829	SW 8310
Chrysene	8.4	mg/kg dw	11/05/1998	0.03	keh	761 1829	SW 8310
Dibenzo (a, h) anthracene	0.84	mg/kg dw	11/05/1998	0.007	keh	761 1829	SW 8310
Fluoranthene	24	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Fluorene	1.7	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Indeno (1, 2, 3-cd) pyrene	5.2	mg/kg dw	11/05/1998	0.0095	keh	761 1829	SW 8310
Naphthalene	<1.7	mg/kg dw	11/05/1998	0.028	keh	761 1829	SW 8310
Phenanthrene	17	mg/kg dw	11/05/1998	0.044	keh	761 1829	SW 8310
Pyrene	18	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	761 1829	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.2	mg/kg dw	11/08/1998	0.044	tls	378 59	SW 8082
PCB-1221	<0.2	mg/kg dw	11/08/1998	0.044	tls	378 59	SW 8082
PCB-1232	<0.2	mg/kg dw	11/08/1998	0.044	tls	378 59	SW 8082
PCB-1242	<0.2	mg/kg dw	11/08/1998	0.044	tls	378 59	SW 8082
PCB-1248	<0.2	mg/kg dw	11/08/1998	0.044	tls	378 59	SW 8082
PCB-1254	<0.2	mg/kg dw	11/08/1998	0.044	tls	378 59	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498675

NET Job No.: 98.13470

Sample Description: S15  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:35  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.39	mg/kg dw	11/08/1998	0.044	tls	378 59	SW 8082
Decachlorobiphenyl (Surr)	116.0	%	11/08/1998	NA	tls	378 59	SW 8082
2,4,5,6-TCMX (Surr)	94.0	%	11/08/1998	NA	tls	378 59	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498676  
NET Job No.: 98.13470

Sample Description: S16  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:45  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.42	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	84.6	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	6.4	mg/kg dw	11/04/1998	0.59	mhp	232 670	SW 7060
Barium, ICP	1,300	mg/kg dw	11/04/1998	1.2	jtt	1162 2178	SW 6010B
Cadmium, ICP	3.7	mg/kg dw	11/04/1998	0.59	jtt	1162 2165	SW 6010B
Chromium, ICP	93	mg/kg dw	11/04/1998	2.4	jtt	1162 2150	SW 6010B
Lead, ICP	496	mg/kg dw	11/04/1998	4.7	jtt	1162 2388	SW 6010B
Mercury, CVAA	0.47	mg/kg dw	11/02/1998	0.047	sep	665 769	SW 7471A
Selenium, GFAA	0.45	mg/kg dw	11/05/1998	0.30	mhp	232 558	SW 7740
Silver, AA	<2.4	mg/kg dw	11/04/1998	2.4	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	242	SW 8015M
<del>TPH MODIFIED 8015</del>							
TPH as Gas	<591	mg/kg dw	11/02/1998	59	out	242 488	SW 8015M
TPH as Diesel	<591	mg/kg dw	11/02/1998	59	out	242 488	SW 8015M
TPH as Oil	45,200 PT	mg/kg dw	11/02/1998	59	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Dibromofluoromethane (Surr)	84.0	%	10/30/1998	81-129	pll	67	SW 8260A
Toluene-d8 (Surr)	80.0	%	10/30/1998	74-129	pll	67	SW 8260A
4-Bromofluoromethane (Surr)	88.0	%	10/30/1998	70-130	pll	67	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.





**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498676  
NET Job No.: 98.13470

Sample Description: S16  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:45  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	1.7	mg/kg dw	11/04/1998	0.024	kdw	761 1828	SW 8310
Acenaphthylene	<0.38	mg/kg dw	11/04/1998	0.024	kdw	761 1828	SW 8310
Anthracene	3.3	mg/kg dw	11/04/1998	0.047	kdw	761 1828	SW 8310
Benzo (a) anthracene	6.1	mg/kg dw	11/04/1998	0.0031	kdw	761 1828	SW 8310
Benzo (b) fluoranthene	5.8	mg/kg dw	11/04/1998	0.0043	kdw	761 1828	SW 8310
Benzo (k) fluoranthene	3.2	mg/kg dw	11/04/1998	0.0040	kdw	761 1828	SW 8310
Benzo (a) pyrene	5.3	mg/kg dw	11/04/1998	0.0054	kdw	761 1828	SW 8310
Benzo (ghi) perylene	4.6	mg/kg dw	11/04/1998	0.047	kdw	761 1828	SW 8310
Chrysene	5.9	mg/kg dw	11/04/1998	0.04	kdw	761 1828	SW 8310
Dibenzo (a,h) anthracene	<0.64	mg/kg dw	11/04/1998	0.007	kdw	761 1828	SW 8310
Fluoranthene	17	mg/kg dw	11/04/1998	0.024	kdw	761 1828	SW 8310
Fluorene	1.7	mg/kg dw	11/04/1998	0.024	kdw	761 1828	SW 8310
Indeno (1,2,3-cd) pyrene	3.8	mg/kg dw	11/04/1998	0.010	kdw	761 1828	SW 8310
Naphthalene	0.69	mg/kg dw	11/04/1998	0.030	kdw	761 1828	SW 8310
Phenanthrene	12	mg/kg dw	11/04/1998	0.047	kdw	761 1828	SW 8310
Pyrene	14	mg/kg dw	11/04/1998	0.024	kdw	761 1828	SW 8310
Surr: p-Terphenyl	Diluted out		11/04/1998	43-125	kdw	761 1828	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.2	mg/kg dw	11/08/1998	0.047	tls	378 59	SW 8082
PCB-1221	<0.2	mg/kg dw	11/08/1998	0.047	tls	378 59	SW 8082
PCB-1232	<0.2	mg/kg dw	11/08/1998	0.047	tls	378 59	SW 8082
PCB-1242	<0.2	mg/kg dw	11/08/1998	0.047	tls	378 59	SW 8082
PCB-1248	<0.2	mg/kg dw	11/08/1998	0.047	tls	378 59	SW 8082
PCB-1254	<0.2	mg/kg dw	11/08/1998	0.047	tls	378 59	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498676

NET Job No.: 98.13470

Sample Description: S16  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 10:45  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.93	mg/kg dw	11/08/1998	0.047	tls	378 59	SW 8082
Decachlorobiphenyl (Surr)	96.0	%	11/08/1998	NA	tls	378 59	SW 8082
2,4,5,6-TCMX (Surr)	90.0	%	11/08/1998	NA	tls	378 59	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498677  
NET Job No.: 98.13470

Sample Description: S17  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.32	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	87.2	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GPAA	3.8	mg/kg dw	11/06/1998	0.57	jtt	233 671	SW 7060
Barium, ICP	275	mg/kg dw	11/05/1998	1.1	kdw	1163 2184	SW 6010B
Cadmium, ICP	2.5	mg/kg dw	11/05/1998	0.57	jtt	1163 2172	SW 6010B
Chromium, ICP	29	mg/kg dw	11/05/1998	2.3	jtt	1163 2157	SW 6010B
Lead, ICP	42	mg/kg dw	11/05/1998	4.6	jtt	1163 2395	SW 6010B
Mercury, CVAA	<0.046	mg/kg dw	11/02/1998	0.046	sep	665 769	SW 7471A
Selenium, GFAA	0.72	mg/kg dw	11/05/1998	0.29	mhp	233 558	SW 7740
Silver, AA	<2.3	mg/kg dw	11/02/1998	2.3	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	242	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<573	mg/kg dw	11/02/1998	57	out	242 488	SW 8015M
TPH as Diesel	85,600 PT	mg/kg dw	11/02/1998	57	out	242 488	SW 8015M
TPH as Oil	<573	mg/kg dw	11/02/1998	57	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	pll	67	SW 8260A
Dibromofluoromethane (Surr)	92.0	%	10/30/1998	81-129	pll	67	SW 8260A
Toluene-d8 (Surr)	88.0	%	10/30/1998	74-129	pll	67	SW 8260A
4-Bromofluoromethane (Surr)	92.0	%	10/30/1998	70-130	pll	67	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the diesel range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498677  
NET Job No.: 98.13470

Sample Description: S17  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	3.4	mg/kg dw	11/05/1998	0.023	keh	761 1829	SW 8310
Acenaphthylene	<2.1	mg/kg dw	11/05/1998	0.023	keh	761 1829	SW 8310
Anthracene	<44	mg/kg dw	11/05/1998	0.046	keh	761 1829	SW 8310
Benzo (a) anthracene	<4.4	mg/kg dw	11/05/1998	0.0030	keh	761 1829	SW 8310
Benzo (b) fluoranthene	<0.37	mg/kg dw	11/05/1998	0.0041	keh	761 1829	SW 8310
Benzo (k) fluoranthene	<0.35	mg/kg dw	11/05/1998	0.0039	keh	761 1829	SW 8310
Benzo (a) pyrene	<0.48	mg/kg dw	11/05/1998	0.0053	keh	761 1829	SW 8310
Benzo (ghi) perylene	<4.1	mg/kg dw	11/05/1998	0.046	keh	761 1829	SW 8310
Chrysene	<3	mg/kg dw	11/05/1998	0.03	keh	761 1829	SW 8310
Dibenzo (a, h) anthracene	<0.6	mg/kg dw	11/05/1998	0.007	keh	761 1829	SW 8310
Fluoranthene	<26	mg/kg dw	11/05/1998	0.023	keh	761 1829	SW 8310
Fluorene	8.8	mg/kg dw	11/05/1998	0.023	keh	761 1829	SW 8310
Indeno (1,2,3-cd) pyrene	<0.89	mg/kg dw	11/05/1998	0.0099	keh	761 1829	SW 8310
Naphthalene	<2.6	mg/kg dw	11/05/1998	0.029	keh	761 1829	SW 8310
Phenanthrene	<19	mg/kg dw	11/05/1998	0.046	keh	761 1829	SW 8310
Pyrene	<67	mg/kg dw	11/05/1998	0.023	keh	761 1829	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	761 1829	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE wna		378	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.046	mg/kg dw	11/08/1998	0.046	tls	378 61	SW 8082
PCB-1221	<0.046	mg/kg dw	11/08/1998	0.046	tls	378 61	SW 8082
PCB-1232	<0.046	mg/kg dw	11/08/1998	0.046	tls	378 61	SW 8082
PCB-1242	<0.046	mg/kg dw	11/08/1998	0.046	tls	378 61	SW 8082
PCB-1248	<0.046	mg/kg dw	11/08/1998	0.046	tls	378 61	SW 8082
PCB-1254	<0.046	mg/kg dw	11/08/1998	0.046	tls	378 61	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498677

NET Job No.: 98.13470

Sample Description: S17  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:10  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.046	mg/kg dw	11/08/1998	0.046	tls	378 61	SW 8082
Decachlorobiphenyl (Surr)	90.0	µ	11/08/1998	NA	tls	378 61	SW 8082
2,4,5,6-TCMX (Surr)	78.0	µ	11/08/1998	NA	tls	378 61	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498678  
NET Job No.: 98.13470

Sample Description: S18  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.07	units	10/23/1998	0.10	nwg	183	SW 9045B
Solids, Total	41.9	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	23	mg/kg dw	11/06/1998	1.2	jtt	233 671	SW 7060
Barium, ICP	1,580	mg/kg dw	11/05/1998	2.4	kdw	1163 2184	SW 6010B
Cadmium, ICP	16	mg/kg dw	11/05/1998	1.2	jtt	1163 2172	SW 6010B
Chromium, ICP	69	mg/kg dw	11/05/1998	4.8	jtt	1163 2157	SW 6010B
Lead, ICP	180	mg/kg dw	11/05/1998	9.5	jtt	1163 2395	SW 6010B
Mercury, CVAA	0.12	mg/kg dw	11/02/1998	0.095	sep	665 769	SW 7471A
Selenium, GFAA	1.3	mg/kg dw	11/05/1998	0.60	mhp	233 558	SW 7740
Silver, AA	<4.8	mg/kg dw	11/02/1998	4.8	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	242	SW 8015M
<b>TPH-MODIFIED 8015</b>							
TPH as Gas	<1,190	mg/kg dw	11/02/1998	120	out	242 488	SW 8015M
TPH as Diesel	<1,190	mg/kg dw	11/02/1998	120	out	242 488	SW 8015M
TPH as Oil	179,000 PT	mg/kg dw	11/02/1998	120	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	242 488	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.01	mg/kg dw	10/30/1998	0.01	pll	65	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/30/1998	0.01	pll	65	SW 8260A
Toluene	<0.01	mg/kg dw	10/30/1998	0.01	pll	65	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/30/1998	0.01	pll	65	SW 8260A
Dibromofluoromethane (Surr)	90.0	%	10/30/1998	81-129	pll	65	SW 8260A
Toluene-d8 (Surr)	82.0	%	10/30/1998	74-129	pll	65	SW 8260A
4-Bromofluoromethane (Surr)	48.0 R	%	10/30/1998	70-130	pll	65	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.

R : Surrogate recovery verified by re-analysis



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498678

NET Job No.: 98.13470

Sample Description: S18  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<12	mg/kg dw	11/05/1998	0.048	keh	761 1829	SW 8310
Acenaphthylene	<3.8	mg/kg dw	11/05/1998	0.048	keh	761 1829	SW 8310
Anthracene	12	mg/kg dw	11/05/1998	0.095	keh	761 1829	SW 8310
Benzo (a)anthracene	<26	mg/kg dw	11/05/1998	0.0062	keh	761 1829	SW 8310
Benzo (b)fluoranthene	17	mg/kg dw	11/05/1998	0.0086	keh	761 1829	SW 8310
Benzo (k)fluoranthene	7.9	mg/kg dw	11/05/1998	0.0081	keh	761 1829	SW 8310
Benzo (a)pyrene	19	mg/kg dw	11/05/1998	0.011	keh	761 1829	SW 8310
Benzo (ghi)perylene	13	mg/kg dw	11/05/1998	0.095	keh	761 1829	SW 8310
Chrysene	<17	mg/kg dw	11/05/1998	0.07	keh	761 1829	SW 8310
Dibenzo (a,h)anthracene	2.6	mg/kg dw	11/05/1998	0.01	keh	761 1829	SW 8310
Fluoranthene	55	mg/kg dw	11/05/1998	0.048	keh	761 1829	SW 8310
Fluorene	6.0	mg/kg dw	11/05/1998	0.048	keh	761 1829	SW 8310
Indeno (1,2,3-cd)pyrene	12	mg/kg dw	11/05/1998	0.021	keh	761 1829	SW 8310
Naphthalene	<4.8	mg/kg dw	11/05/1998	0.060	keh	761 1829	SW 8310
Phenanthrene	43	mg/kg dw	11/05/1998	0.095	keh	761 1829	SW 8310
Pyrene	41	mg/kg dw	11/05/1998	0.048	keh	761 1829	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	761 1829	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.5	mg/kg dw	11/11/1998	0.095	tls	378 62	SW 8082
PCB-1221	<0.5	mg/kg dw	11/11/1998	0.095	tls	378 62	SW 8082
PCB-1232	<0.5	mg/kg dw	11/11/1998	0.095	tls	378 62	SW 8082
PCB-1242	<0.5	mg/kg dw	11/11/1998	0.095	tls	378 62	SW 8082
PCB-1248	<0.5	mg/kg dw	11/11/1998	0.095	tls	378 62	SW 8082
PCB-1254	<0.5	mg/kg dw	11/11/1998	0.095	tls	378 62	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498678  
NET Job No.: 98.13470

Sample Description: S18  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	2.03	mg/kg dw	11/11/1998	0.095	tls	378 62	SW 8082
Decachlorobiphenyl (Surr)	106.0	%	11/09/1998	NA	tls	378 61	SW 8082
2,4,5,6-TCMX (Surr)	108.0	%	11/09/1998	NA	tls	378 61	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498679  
NET Job No.: 98.13470

Sample Description: S19  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:20  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.60	units	10/23/1998	0.10	nwg	184	SW 9045B
Solids, Total	90.2	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	1.6	mg/kg dw	11/06/1998	0.55	mhp	232 672	SW 7060
Barium, ICP	68	mg/kg dw	11/05/1998	1.1	kdw	1163 2184	SW 6010B
Cadmium, ICP	1.9	mg/kg dw	11/05/1998	0.55	jtt	1163 2172	SW 6010B
Chromium, ICP	7.6	mg/kg dw	11/05/1998	2.2	jtt	1163 2157	SW 6010B
Lead, ICP	11	mg/kg dw	11/05/1998	4.4	jtt	1163 2395	SW 6010B
Mercury, CVAA	<0.044	mg/kg dw	11/02/1998	0.044	sep	665 769	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/05/1998	0.28	mhp	232 558	SW 7740
Silver, AA	<2.2	mg/kg dw	11/02/1998	2.2	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	242	SW 8015M
TPH as Gas	<554	mg/kg dw	11/02/1998	55	out	242 488	SW 8015M
TPH as Diesel	<554	mg/kg dw	11/02/1998	55	out	242 488	SW 8015M
TPH as Oil	65,400 PT	mg/kg dw	11/02/1998	55	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	242 488	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	65	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/30/1998	0.006	pll	65	SW 8260A
Toluene	<0.006	mg/kg dw	10/30/1998	0.006	pll	65	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/30/1998	0.006	pll	65	SW 8260A
Dibromofluoromethane (Surr)	88.0	%	10/30/1998	81-129	pll	65	SW 8260A
Toluene-d8 (Surr)	86.0	%	10/30/1998	74-129	pll	65	SW 8260A
4-Bromofluoromethane (Surr)	76.0	%	10/30/1998	70-130	pll	65	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498679

NET Job No.: 98.13470

Sample Description: S19  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:20  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<2.0	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Acenaphthylene	<2.0	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Anthracene	<4.0	mg/kg dw	11/05/1998	0.044	keh	761 1829	SW 8310
Benzo(a)anthracene	<2.8	mg/kg dw	11/05/1998	0.0029	keh	761 1829	SW 8310
Benzo(b)fluoranthene	3.1	mg/kg dw	11/05/1998	0.0040	keh	761 1829	SW 8310
Benzo(k)fluoranthene	1.8	mg/kg dw	11/05/1998	0.0038	keh	761 1829	SW 8310
Benzo(a)pyrene	2.1	mg/kg dw	11/05/1998	0.0051	keh	761 1829	SW 8310
Benzo(ghi)perylene	<4.0	mg/kg dw	11/05/1998	0.044	keh	761 1829	SW 8310
Chrysene	<3	mg/kg dw	11/05/1998	0.03	keh	761 1829	SW 8310
Dibenzo(a,h)anthracene	0.62	mg/kg dw	11/05/1998	0.007	keh	761 1829	SW 8310
Fluoranthene	3.5	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Fluorene	<2.0	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Indeno(1,2,3-cd)pyrene	3.0	mg/kg dw	11/05/1998	0.0095	keh	761 1829	SW 8310
Naphthalene	<2.5	mg/kg dw	11/05/1998	0.028	keh	761 1829	SW 8310
Phenanthrene	<4.0	mg/kg dw	11/05/1998	0.044	keh	761 1829	SW 8310
Pyrene	6.0	mg/kg dw	11/05/1998	0.022	keh	761 1829	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	761 1829	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS	ELV						
PCB-1016	<4.4	mg/kg dw	11/09/1998	0.044	tls	378 61	SW 8082
PCB-1221	<4.4	mg/kg dw	11/09/1998	0.044	tls	378 61	SW 8082
PCB-1232	<4.4	mg/kg dw	11/09/1998	0.044	tls	378 61	SW 8082
PCB-1242	<4.4	mg/kg dw	11/09/1998	0.044	tls	378 61	SW 8082
PCB-1248	<4.4	mg/kg dw	11/09/1998	0.044	tls	378 61	SW 8082
PCB-1254	<4.4	mg/kg dw	11/09/1998	0.044	tls	378 61	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498679  
NET Job No.: 98.13470

Sample Description: S19  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:20  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<4.4	mg/kg dw	11/09/1998	0.044	tls	378 61	SW 8082
Decachlorobiphenyl (Surr)	110.0	‡	11/09/1998	NA	tls	378 61	SW 8082
2,4,5,6-TCMX (Surr)	71.0	‡	11/09/1998	NA	tls	378 61	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498680  
NET Job No.: 98.13470

Sample Description: S20  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.71	units	10/23/1998	0.10	nwg	184	SW 9045B
Solids, Total	98.2	%	11/02/1998	0.1	efw	2513	SM 2540
Arsenic, GFAA	4.9	mg/kg dw	11/06/1998	0.51	jtt	233 671	SW 7060
Barium, ICP	1,730	mg/kg dw	11/05/1998	1.0	kdw	1163 2184	SW 6010B
Cadmium, ICP	1.3	mg/kg dw	11/05/1998	0.51	jtt	1163 2172	SW 6010B
Chromium, ICP	39	mg/kg dw	11/05/1998	2.0	jtt	1163 2157	SW 6010B
Lead, ICP	1,020	mg/kg dw	11/05/1998	4.1	jtt	1163 2395	SW 6010B
Mercury, CVAA	0.052	mg/kg dw	11/02/1998	0.041	sep	665 769	SW 7471A
Selenium, GFAA	<0.25	mg/kg dw	11/05/1998	0.25	mhp	233 558	SW 7740
Silver, AA	2.4	mg/kg dw	11/02/1998	2.0	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	242	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<51	mg/kg dw	11/02/1998	51	out	242 488	SW 8015M
TPH as Diesel	<51	mg/kg dw	11/02/1998	51	out	242 488	SW 8015M
TPH as Oil	520	PT mg/kg dw	11/02/1998	51	out	242 488	SW 8015M
N-octacosane (TPH surr)	82.0	%	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Toluene	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Dibromofluoromethane (Surr)	94.0	%	10/30/1998	81-129	pll	67	SW 8260A
Toluene-d8 (Surr)	94.0	%	10/30/1998	74-129	pll	67	SW 8260A
4-Bromofluoromethane (Surr)	100.0	%	10/30/1998	70-130	pll	67	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498680  
NET Job No.: 98.13470

Sample Description: S20  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.36	mg/kg dw	11/03/1998	0.020	kdw	761 1828	SW 8310
Acenaphthylene	<0.36	mg/kg dw	11/03/1998	0.020	kdw	761 1828	SW 8310
Anthracene	<0.74	mg/kg dw	11/03/1998	0.041	kdw	761 1828	SW 8310
Benzo(a)anthracene	1.9	mg/kg dw	11/03/1998	0.0026	kdw	761 1828	SW 8310
Benzo(b)fluoranthene	0.88	mg/kg dw	11/03/1998	0.0037	kdw	761 1828	SW 8310
Benzo(k)fluoranthene	0.63	mg/kg dw	11/03/1998	0.0035	kdw	761 1828	SW 8310
Benzo(a)pyrene	1.2	mg/kg dw	11/03/1998	0.0047	kdw	761 1828	SW 8310
Benzo(ghi)perylene	0.84	mg/kg dw	11/03/1998	0.041	kdw	761 1828	SW 8310
Chrysene	1.0	mg/kg dw	11/03/1998	0.03	kdw	761 1828	SW 8310
Dibenzo(a,h)anthracene	0.14	mg/kg dw	11/03/1998	0.006	kdw	761 1828	SW 8310
Fluoranthene	3.2	mg/kg dw	11/03/1998	0.020	kdw	761 1828	SW 8310
Fluorene	<0.36	mg/kg dw	11/03/1998	0.020	kdw	761 1828	SW 8310
Indeno(1,2,3-cd)pyrene	0.76	mg/kg dw	11/03/1998	0.0088	kdw	761 1828	SW 8310
Naphthalene	<0.45	mg/kg dw	11/03/1998	0.025	kdw	761 1828	SW 8310
Phenanthrene	1.9	mg/kg dw	11/03/1998	0.041	kdw	761 1828	SW 8310
Pyrene	2.5	mg/kg dw	11/03/1998	0.020	kdw	761 1828	SW 8310
Surr: p-Terphenyl	Diluted out		11/03/1998	43-125	kdw	761 1828	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.041	mg/kg dw	11/09/1998	0.041	tls	378 61	SW 8082
PCB-1221	<0.041	mg/kg dw	11/09/1998	0.041	tls	378 61	SW 8082
PCB-1232	<0.041	mg/kg dw	11/09/1998	0.041	tls	378 61	SW 8082
PCB-1242	<0.041	mg/kg dw	11/09/1998	0.041	tls	378 61	SW 8082
PCB-1248	<0.041	mg/kg dw	11/09/1998	0.041	tls	378 61	SW 8082
PCB-1254	<0.041	mg/kg dw	11/09/1998	0.041	tls	378 61	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 498680

NET Job No.: 98.13470

Sample Description: S20  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:25  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.143	mg/kg dw	11/09/1998	0.041	tls	378 61	SW 8082
Decachlorobiphenyl (Surr)	90.0	†	11/09/1998	NA	tls	378 61	SW 8082
2,4,5,6-TCMX (Surr)	87.0	†	11/09/1998	NA	tls	378 61	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498681  
NET Job No.: 98.13470

Sample Description: S21  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:35  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.52	units	10/23/1998	0.10	nwg	184	SW 9045B
Solids, Total	96.0	‡	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	7.1	mg/kg dw	11/06/1998	0.52	jtt	233 671	SW 7060
Barium, ICP	927	mg/kg dw	11/05/1998	1.0	kdw	1163 2184	SW 6010B
Cadmium, ICP	1.7	mg/kg dw	11/05/1998	0.52	jtt	1163 2172	SW 6010B
Chromium, ICP	22	mg/kg dw	11/05/1998	2.1	jtt	1163 2157	SW 6010B
Lead, ICP	61	mg/kg dw	11/05/1998	4.2	jtt	1163 2395	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	11/02/1998	0.042	sep	665 769	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	11/05/1998	0.26	mhp	233 558	SW 7740
Silver, AA	<2.1	mg/kg dw	11/02/1998	2.1	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	242	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<521	mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
TPH as Diesel	<521	mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
TPH as Oil	15,100 PT	mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/30/1998	0.005	p11	67	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/30/1998	0.005	p11	67	SW 8260A
Toluene	<0.005	mg/kg dw	10/30/1998	0.005	p11	67	SW 8260A
Xylenes, Total	0.010	mg/kg dw	10/30/1998	0.005	p11	67	SW 8260A
Dibromofluoromethane (Surr)	92.0	‡	10/30/1998	81-129	p11	67	SW 8260A
Toluene-d8 (Surr)	84.0	‡	10/30/1998	74-129	p11	67	SW 8260A
4-Bromofluoromethane (Surr)	92.0	‡	10/30/1998	70-130	p11	67	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498681  
NET Job No.: 98.13470

Sample Description: S21  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:35  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.50	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Acenaphthylene	<0.50	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Anthracene	<1.6	mg/kg dw	11/05/1998	0.042	kdw	761 1827	SW 8310
Benzo(a)anthracene	<0.85	mg/kg dw	11/05/1998	0.0027	kdw	761 1827	SW 8310
Benzo(b)fluoranthene	<0.30	mg/kg dw	11/05/1998	0.0038	kdw	761 1827	SW 8310
Benzo(k)fluoranthene	<18	mg/kg dw	11/05/1998	0.0035	kdw	761 1827	SW 8310
Benzo(a)pyrene	<0.11	mg/kg dw	11/05/1998	0.0048	kdw	761 1827	SW 8310
Benzo(ghi)perylene	<1.0	mg/kg dw	11/05/1998	0.042	kdw	761 1827	SW 8310
Chrysene	<0.75	mg/kg dw	11/05/1998	0.03	kdw	761 1827	SW 8310
Dibenzo(a,h)anthracene	<0.15	mg/kg dw	11/05/1998	0.006	kdw	761 1827	SW 8310
Fluoranthene	<2.5	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Fluorene	<0.82	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Indeno(1,2,3-cd)pyrene	<0.22	mg/kg dw	11/05/1998	0.0090	kdw	761 1827	SW 8310
Naphthalene	<0.62	mg/kg dw	11/05/1998	0.026	kdw	761 1827	SW 8310
Phenanthrene	2.6	mg/kg dw	11/05/1998	0.042	kdw	761 1827	SW 8310
Pyrene	<1.0	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	kdw	761 1827	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.042	mg/kg dw	11/09/1998	0.042	t1s	378 61	SW 8082
PCB-1221	<0.042	mg/kg dw	11/09/1998	0.042	t1s	378 61	SW 8082
PCB-1232	<0.042	mg/kg dw	11/09/1998	0.042	t1s	378 61	SW 8082
PCB-1242	<0.042	mg/kg dw	11/09/1998	0.042	t1s	378 61	SW 8082
PCB-1248	<0.042	mg/kg dw	11/09/1998	0.042	t1s	378 61	SW 8082
PCB-1254	<0.042	mg/kg dw	11/09/1998	0.042	t1s	378 61	SW 8082

ELV : Elevated reporting limits due to matrix interference.







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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498681  
NET Job No.: 98.13470

Sample Description: S21  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:35  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.156	mg/kg dw	11/09/1998	0.042	tls	378 61	SW 8082
Decachlorobiphenyl (Surr)	87.0	%	11/09/1998	NA	tls	378 61	SW 8082
2,4,5,6-TCMX (Surr)	82.0	%	11/09/1998	NA	tls	378 61	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498682  
NET Job No.: 98.13470

Sample Description: S22  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:40  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.79	units	10/23/1998	0.10	nwg	184	SW 9045B
Solids, Total	95.9	‡	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	5.2	mg/kg dw	11/06/1998	0.52	jtt	233 671	SW 7060
Barium, ICP	448	mg/kg dw	11/05/1998	1.0	kdw	1163 2184	SW 6010B
Cadmium, ICP	0.97	mg/kg dw	11/05/1998	0.52	jtt	1163 2172	SW 6010B
Chromium, ICP	11	mg/kg dw	11/05/1998	2.1	jtt	1163 2157	SW 6010B
Lead, ICP	22	mg/kg dw	11/05/1998	4.2	jtt	1163 2395	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	11/02/1998	0.042	sep	665 769	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	11/05/1998	0.26	mhp	233 558	SW 7740
Silver, AA	2.3	mg/kg dw	11/02/1998	2.1	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	242	SW 8015M
TPH as Gas	<521	mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
TPH as Diesel	<521	mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
TPH as Oil	78,200 PT	mg/kg dw	11/02/1998	52	out	242 488	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/02/1998		out	242 488	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Toluene	0.0081	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/30/1998	0.005	pll	67	SW 8260A
Dibromofluoromethane (Surr)	96.0	‡	10/30/1998	81-129	pll	67	SW 8260A
Toluene-d8 (Surr)	84.0	‡	10/30/1998	74-129	pll	67	SW 8260A
4-Bromofluoromethane (Surr)	92.0	‡	10/30/1998	70-130	pll	67	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/26/1998		mmv	761	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498682  
NET Job No.: 98.13470

Sample Description: S22  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:40  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<1.4	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Acenaphthylene	<1.4	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Anthracene	<2.7	mg/kg dw	11/05/1998	0.042	kdw	761 1827	SW 8310
Benzo(a)anthracene	2.4	mg/kg dw	11/05/1998	0.0027	kdw	761 1827	SW 8310
Benzo(b)fluoranthene	1.3	mg/kg dw	11/05/1998	0.0038	kdw	761 1827	SW 8310
Benzo(k)fluoranthene	0.64	mg/kg dw	11/05/1998	0.0035	kdw	761 1827	SW 8310
Benzo(a)pyrene	1.4	mg/kg dw	11/05/1998	0.0048	kdw	761 1827	SW 8310
Benzo(ghi)perylene	<2.7	mg/kg dw	11/05/1998	0.042	kdw	761 1827	SW 8310
Chrysene	<2	mg/kg dw	11/05/1998	0.03	kdw	761 1827	SW 8310
Dibenzo(a,h)anthracene	<0.4	mg/kg dw	11/05/1998	0.006	kdw	761 1827	SW 8310
Fluoranthene	2.4	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Fluorene	<1.4	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Indeno(1,2,3-cd)pyrene	0.81	mg/kg dw	11/05/1998	0.0090	kdw	761 1827	SW 8310
Naphthalene	<1.7	mg/kg dw	11/05/1998	0.026	kdw	761 1827	SW 8310
Phenanthrene	<2.7	mg/kg dw	11/05/1998	0.042	kdw	761 1827	SW 8310
Pyrene	2.6	mg/kg dw	11/05/1998	0.021	kdw	761 1827	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	kdw	761 1827	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/29/1998	COMPLETE	wna	378	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.042	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082
PCB-1221	<0.042	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082
PCB-1232	<0.042	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082
PCB-1242	<0.042	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082
PCB-1248	<0.042	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082
PCB-1254	<0.042	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 498682  
NET Job No.: 98.13470

Sample Description: S22  
ComEd-Will County; 1801-023-710

Date Taken: 10/16/1998  
Time Taken: 11:40  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.25	mg/kg dw	11/08/1998	0.042	tls	378 59	SW 8082
Decachlorobiphenyl (Surr)	86.0	‡	11/08/1998	NA	tls	378 59	SW 8082
2,4,5,6-TCMX (Surr)	89.0	‡	11/08/1998	NA	tls	378 59	SW 8082



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
pH, Non-Aqueous	182	7.00	7.00	100.0
pH, Non-Aqueous	183	7.00	7.00	100.0
pH, Non-Aqueous	184	7.00	7.00	100.0
Arsenic, GFAA	670	0.0250	0.0258	103.2
Arsenic, GFAA	671	0.0250	0.0262	104.8
Arsenic, GFAA	672	0.0250	0.0256	102.4
Barium, ICP	2176	2.00	2.15	107.5
Barium, ICP	2178	2.00	1.91	95.5
Barium, ICP	2184	2.00	2.00	100.0
Cadmium, ICP	2162	1.00	1.07	107.0
Cadmium, ICP	2165	1.00	0.967	96.7
Cadmium, ICP	2172	1.00	0.997	99.7
Chromium, ICP	2147	2.00	2.13	106.5
Chromium, ICP	2150	2.00	1.94	97.0
Chromium, ICP	2157	2.00	1.90	95.0
Lead, ICP	2388	2.00	1.89	94.5
Lead, ICP	2392	2.00	1.90	95.0
Lead, ICP	2395	2.00	1.98	99.0
Selenium, GFAA	557	0.0500	0.0504	100.8
Selenium, GFAA	558	0.0500	0.0484	96.8
Silver, AA	568	0.500	0.489	97.8
Silver, AA	569	0.50	0.489	97.8
Silver, AA	571	0.50	0.497	99.4
UST VOLATILES NON-AQUEOUS				
Benzene	63	50.0	49.6	99.2
Ethylbenzene	63	50.0	49.5	99.0
Toluene	63	50.0	48.7	97.4
Xylenes, Total	63	150	147	98.0
UST VOLATILES NON-AQUEOUS				
Benzene	65	50.0	52.0	104.0
Ethylbenzene	65	50.0	49.0	98.0
Toluene	65	50.0	51.0	102.0
Xylenes, Total	65	150	143	95.3

UST VOLATILES NON-AQUEOUS

CCV - Continuing Calibration Verification



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc.	Percent
	Batch	True		
	Number	Conc.	Found	
Benzene	66	50.0	52.0	104.0
Ethylbenzene	66	50.0	52.0	104.0
Toluene	66	50.0	50.0	100.0
Xylenes, Total	66	150	154	102.7
UST VOLATILES NON-AQUEOUS				
Benzene	67	50.0	50.0	100.0
Ethylbenzene	67	50.0	51.0	102.0
Toluene	67	50.0	51.0	102.0
Xylenes, Total	67	150	152	101.3
UST VOLATILES NON-AQUEOUS				
Benzene	68	50.0	53.0	106.0
Ethylbenzene	68	50.0	54.0	108.0
Toluene	68	50.0	52.0	104.0
Xylenes, Total	68	150	162	108.0
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1821	5000	4,860	97.2
Acenaphthylene	1821	5000	5,174	103.5
Anthracene	1821	5000	5,262	105.2
Benzo(a)anthracene	1821	5000	5,218	104.4
Benzo(b)fluoranthene	1821	5000	4,941	98.8
Benzo(k)fluoranthene	1821	5000	5,008	100.2
Benzo(a)pyrene	1821	5000	4,954	99.1
Benzo(ghi)perylene	1821	5000	5,136	102.7
Chrysene	1821	5000	5,181	103.6
Dibenzo(a,h)anthracene	1821	5000	5,057	101.1
Fluoranthene	1821	5000	5,060	101.2
Fluorene	1821	5000	5,009	100.2
Indeno(1,2,3-cd)pyrene	1821	5000	5,159	103.2
Naphthalene	1821	5000	4,929	98.6
Phenanthrene	1821	5000	5,150	103.0
Pyrene	1821	5000	4,994	99.9
Surr: p-Terphenyl	1821	5000	5,044	100.9
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1822	5000	4,817	96.3

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Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Acenaphthylene	1822	5000	5,119	102.4
Anthracene	1822	5000	5,261	105.2
Benzo (a) anthracene	1822	5000	5,282	105.6
Benzo (b) fluoranthene	1822	5000	4,909	98.2
Benzo (k) fluoranthene	1822	5000	5,251	105.0
Benzo (a) pyrene	1822	5000	4,925	98.5
Benzo (ghi) perylene	1822	5000	5,204	104.1
Chrysene	1822	5000	5,151	103.0
Dibenzo (a, h) anthracene	1822	5000	5,059	101.2
Fluoranthene	1822	5000	5,139	102.8
Fluorene	1822	5000	5,026	100.5
Indeno (1, 2, 3-cd) pyrene	1822	5000	5,115	102.3
Naphthalene	1822	5000	4,783	95.7
Phenanthrene	1822	5000	5,140	102.8
Pyrene	1822	5000	5,112	102.2
Surr: p-Terphenyl	1822	5000	5,113	102.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1824	5000	4,629	92.6
Acenaphthylene	1824	5000	5,127	102.5
Anthracene	1824	5000	5,201	104.0
Benzo (a) anthracene	1824	5000	4,952	99.0
Benzo (b) fluoranthene	1824	5000	4,900	98.0
Benzo (k) fluoranthene	1824	5000	4,887	97.7
Benzo (a) pyrene	1824	5000	5,066	101.3
Benzo (ghi) perylene	1824	5000	5,018	100.4
Chrysene	1824	5000	4,989	99.8
Dibenzo (a, h) anthracene	1824	5000	5,011	100.2
Fluoranthene	1824	5000	5,039	100.8
Fluorene	1824	5000	4,902	98.0
Indeno (1, 2, 3-cd) pyrene	1824	5000	4,814	96.3
Naphthalene	1824	5000	4,941	98.8
Phenanthrene	1824	5000	4,821	96.4
Pyrene	1824	5000	5,190	103.8
Surr: p-Terphenyl	1824	5000	4,887	97.7

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### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
FNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1827	5000	4,517	90.3
Acenaphthylene	1827	5000	5,072	101.4
Anthracene	1827	5000	4,791	95.8
Benzo(a)anthracene	1827	5000	5,038	100.8
Benzo(b)fluoranthene	1827	5000	5,066	101.3
Benzo(k)fluoranthene	1827	5000	4,905	98.1
Benzo(a)pyrene	1827	5000	4,466	89.3
Benzo(ghi)perylene	1827	5000	4,515	90.3
Chrysene	1827	5000	5,156	103.1
Dibenzo(a,h)anthracene	1827	5000	4,987	99.7
Fluoranthene	1827	5000	4,877	97.5
Fluorene	1827	5000	4,926	98.5
Indeno(1,2,3-cd)pyrene	1827	5000	4,483	89.7
Naphthalene	1827	5000	4,744	94.9
Phenanthrene	1827	5000	4,717	94.3
Pyrene	1827	5000	4,847	96.9
Surr: p-Terphenyl	1827	5000	4,857	97.1
FNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1828	5000	4,545	90.9
Acenaphthylene	1828	5000	5,123	102.5
Anthracene	1828	5000	5,146	102.9
Benzo(a)anthracene	1828	5000	4,898	98.0
Benzo(b)fluoranthene	1828	5000	4,903	98.1
Benzo(k)fluoranthene	1828	5000	4,897	97.9
Benzo(a)pyrene	1828	5000	5,033	100.7
Benzo(ghi)perylene	1828	5000	4,929	98.6
Chrysene	1828	5000	5,005	100.1
Dibenzo(a,h)anthracene	1828	5000	5,003	100.1
Fluoranthene	1828	5000	4,963	99.3
Fluorene	1828	5000	4,886	97.7
Indeno(1,2,3-cd)pyrene	1828	5000	4,889	97.8
Naphthalene	1828	5000	4,904	98.1
Phenanthrene	1828	5000	4,829	96.6

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### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Pyrene	1828	5000	5,199	104.0
Surr: p-Terphenyl	1828	5000	4,913	98.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1829	5000	4,813	96.3
Acenaphthylene	1829	5000	4,992	99.8
Anthracene	1829	5000	5,087	101.7
Benzo(a)anthracene	1829	5000	5,112	102.2
Benzo(b)fluoranthene	1829	5000	4,846	96.9
Benzo(k)fluoranthene	1829	5000	4,904	98.1
Benzo(a)pyrene	1829	5000	4,725	94.5
Benzo(ghi)perylene	1829	5000	5,015	100.3
Chrysene	1829	5000	5,069	101.4
Dibenzo(a,h)anthracene	1829	5000	4,991	99.8
Fluoranthene	1829	5000	5,024	100.5
Fluorene	1829	5000	4,930	98.6
Indeno(1,2,3-cd)pyrene	1829	5000	5,040	100.8
Naphthalene	1829	5000	4,758	95.2
Phenanthrene	1829	5000	5,038	100.8
Pyrene	1829	5000	4,951	99.0
Surr: p-Terphenyl	1829	5000	4,861	97.2
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1829	5000	4,818	96.4
Acenaphthylene	1829	5000	5,018	100.4
Anthracene	1829	5000	5,159	103.2
Benzo(a)anthracene	1829	5000	5,126	102.5
Benzo(b)fluoranthene	1829	5000	4,817	96.3
Benzo(k)fluoranthene	1829	5000	4,920	98.4
Benzo(a)pyrene	1829	5000	4,824	96.5
Benzo(ghi)perylene	1829	5000	5,056	101.1
Chrysene	1829	5000	5,046	100.9
Dibenzo(a,h)anthracene	1829	5000	5,038	100.8
Fluoranthene	1829	5000	4,981	99.6
Fluorene	1829	5000	4,957	99.1
Indeno(1,2,3-cd)pyrene	1829	5000	5,056	101.1

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Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc.	Percent
	Batch	True		
	Number	Conc.	Found	
Naphthalene	1829	5000	4,736	94.7
Phenanthrene	1829	5000	5,051	101.0
Pyrene	1829	5000	4,895	97.9
Surr: p-Terphenyl	1829	5000	4,928	98.6
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1829	5000	4,866	97.3
Acenaphthylene	1829	5000	5,117	102.3
Anthracene	1829	5000	5,203	104.1
Benzo(a)anthracene	1829	5000	5,190	103.8
Benzo(b)fluoranthene	1829	5000	4,902	98.0
Benzo(k)fluoranthene	1829	5000	4,836	96.7
Benzo(a)pyrene	1829	5000	4,837	96.7
Benzo(ghi)perylene	1829	5000	5,081	101.6
Chrysene	1829	5000	5,114	102.3
Dibenzo(a,h)anthracene	1829	5000	5,051	101.0
Fluoranthene	1829	5000	5,057	101.1
Fluorene	1829	5000	5,018	100.4
Indeno(1,2,3-cd)pyrene	1829	5000	5,147	102.9
Naphthalene	1829	5000	4,940	98.8
Phenanthrene	1829	5000	5,104	102.1
Pyrene	1829	5000	5,003	100.1
Surr: p-Terphenyl	1829	5000	4,916	98.3
PNA CMPDS - 8310 NONAQUEOUS				
Fluoranthene	1831	5000	4,852	97.0
Phenanthrene	1831	5000	4,660	93.2
PNA CMPDS - 8310 NONAQUEOUS				
Fluoranthene	1831	5000	4,887	97.7
Phenanthrene	1831	5000	4,670	93.4
PNA CMPDS - 8310 NONAQUEOUS				
Fluoranthene	1831	5000	4,939	98.8
Phenanthrene	1831	5000	4,668	93.4
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1832	5000	4,588	91.8
Acenaphthylene	1832	5000	5,060	101.2

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ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc.	Percent
	Batch	True		
	Number	Conc.	Found	Recovery
Anthracene	1832	5000	5,107	102.1
Benzo(a)anthracene	1832	5000	4,951	99.0
Benzo(b)fluoranthene	1832	5000	4,844	96.9
Benzo(k)fluoranthene	1832	5000	4,953	99.1
Benzo(a)pyrene	1832	5000	5,003	100.1
Benzo(ghi)perylene	1832	5000	4,921	98.4
Chrysene	1832	5000	4,987	99.7
Dibenzo(a,h)anthracene	1832	5000	4,928	98.6
Fluoranthene	1832	5000	4,849	97.0
Fluorene	1832	5000	4,885	97.7
Indeno(1,2,3-cd)pyrene	1832	5000	4,576	91.5
Naphthalene	1832	5000	4,627	92.5
Phenanthrene	1832	5000	4,659	93.2
Pyrene	1832	5000	4,999	100.0
Surr: p-Terphenyl	1832	5000	4,813	96.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1832	5000	4,598	92.0
Acenaphthylene	1832	5000	5,091	101.8
Anthracene	1832	5000	5,062	101.2
Benzo(a)anthracene	1832	5000	5,051	101.0
Benzo(b)fluoranthene	1832	5000	5,000	100.0
Benzo(k)fluoranthene	1832	5000	4,806	96.1
Benzo(a)pyrene	1832	5000	4,961	99.2
Benzo(ghi)perylene	1832	5000	4,943	98.9
Chrysene	1832	5000	4,972	99.4
Dibenzo(a,h)anthracene	1832	5000	4,977	99.5
Fluoranthene	1832	5000	4,889	97.8
Fluorene	1832	5000	4,901	98.0
Indeno(1,2,3-cd)pyrene	1832	5000	4,606	92.1
Naphthalene	1832	5000	4,695	93.9
Phenanthrene	1832	5000	4,694	93.9
Pyrene	1832	5000	5,064	101.3
Surr: p-Terphenyl	1832	5000	4,886	97.7

PNA CMPDS - 8310 NONAQUEOUS

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ENSR  
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Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Acenaphthene	1832	5000	4,477	89.5
Acenaphthylene	1832	5000	5,062	101.2
Anthracene	1832	5000	5,092	101.8
Benzo (a) anthracene	1832	5000	4,930	98.6
Benzo (b) fluoranthene	1832	5000	5,289	105.8
Benzo (k) fluoranthene	1832	5000	4,828	96.6
Benzo (a) pyrene	1832	5000	4,949	99.0
Benzo (ghi) perylene	1832	5000	4,915	98.3
Chrysene	1832	5000	4,915	98.3
Dibenzo (a, h) anthracene	1832	5000	5,003	100.1
Fluoranthene	1832	5000	4,952	99.0
Fluorene	1832	5000	4,884	97.7
Indeno (1, 2, 3-cd) pyrene	1832	5000	4,783	95.7
Naphthalene	1832	5000	4,808	96.2
Phenanthrene	1832	5000	4,712	94.2
Pyrene	1832	5000	5,124	102.5
Surr: p-Terphenyl	1832	5000	4,756	95.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1832	5000	4,696	93.9
Acenaphthylene	1832	5000	5,096	101.9
Anthracene	1832	5000	5,039	100.8
Benzo (a) anthracene	1832	5000	5,158	103.2
Benzo (b) fluoranthene	1832	5000	5,085	101.7
Benzo (k) fluoranthene	1832	5000	4,840	96.8
Benzo (a) pyrene	1832	5000	4,881	97.6
Benzo (ghi) perylene	1832	5000	4,897	97.9
Chrysene	1832	5000	5,027	100.5
Dibenzo (a, h) anthracene	1832	5000	4,974	99.5
Fluoranthene	1832	5000	4,931	98.6
Fluorene	1832	5000	4,888	97.8
Indeno (1, 2, 3-cd) pyrene	1832	5000	4,557	91.1
Naphthalene	1832	5000	4,702	94.0
Phenanthrene	1832	5000	4,767	95.3
Pyrene	1832	5000	5,159	103.2

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Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Surr: p-Terphenyl	1832	5000	4,914	98.3
PCB'S NON-AQUEOUS				
PCB-1016	53	500	434	86.8
PCB-1260	53	500	442	88.4
PCB'S NON-AQUEOUS				
PCB-1016	53	500	447	89.4
PCB-1260	53	500	460	92.0
PCB'S NON-AQUEOUS				
PCB-1016	53	500	447	89.4
PCB-1260	53	500	460	92.0
PCB'S NON-AQUEOUS				
PCB-1016	53	500	479	95.8
PCB-1260	53	500	484	96.8
PCB'S NON-AQUEOUS				
PCB-1016	53	500	475	95.0
PCB-1260	53	500	459	91.8
PCB'S NON-AQUEOUS				
PCB-1016	59	500	521	104.2
PCB-1260	99	500	534	106.8
PCB'S NON-AQUEOUS				
PCB-1016	59	500	469	93.8
PCB-1260	59	500	468	93.6
PCB'S NON-AQUEOUS				
PCB-1016	59	500	491	98.2
PCB-1260	59	500	450	90.0
PCB'S NON-AQUEOUS				
PCB-1016	61	500	483	96.6
PCB-1260	61	500	453	90.6
PCB'S NON-AQUEOUS				
PCB-1016	61	500	494	98.8
PCB-1260	61	500	454	90.8
PCB'S NON-AQUEOUS				
PCB-1016	61	500	510	102.0
PCB-1260	61	500	503	100.6

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11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
PCB'S NON-AQUEOUS				
PCB-1016	62	500	471	94.2
PCB-1260	62	500	497	99.4
PCB'S NON-AQUEOUS				
PCB-1016	62	500	505	101.0
PCB-1260	62	500	519	103.8
PCB'S NON-AQUEOUS				
PCB-1016	62	500	485	97.0
PCB-1260	62	500	456	91.2

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	231	670	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	232	670	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	233	671	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1161	2176	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1162	2178	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1163	2184	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1161	2162	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1162	2165	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1163	2172	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1161	2147	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1162	2150	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1163	2157	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1162	2388	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1161	2392	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1163	2395	<4.0	mg/Kg	4.0	SW 6010B
Selenium, GFAA	231	557	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	232	558	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	233	558	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	488	568	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	489	569	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	490	569	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	492	569	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	491	571	<2.0	mg/Kg	2.0	SW 7760
TPH MODIFIED 8015						SW 8015M
TPH as Gas	242	488	<50	mg/Kg	50	SW 8015M
TPH as Diesel	242	488	<50	mg/Kg	50	SW 8015M
TPH as Oil	242	488	<50	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	242	488	101.0	%		SW 8015M
TPH MODIFIED 8015						SW 8015M

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.





NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division  
850 West Bartlett Rd.  
Bartlett, IL 60103  
Tel: (630) 289-3100  
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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
TPH as Gas	243	485	<50.	mg/Kg	50	SW 8015M
TPH as Diesel	243	485	<50.	mg/Kg	50	SW 8015M
TPH as Oil	243	485	<50.	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	243	485	106.0	µ		SW 8015M
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		63	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		63	<0.005	mg/Kg	0.005	SW 8260A
Toluene		63	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		63	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		63	90.8	µ	74-134	SW 8260A
Toluene-d8 (Surr)		63	93.8	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		63	97.8	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		65	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		65	<0.005	mg/Kg	0.005	SW 8260A
Toluene		65	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		65	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		65	80.0	µ	74-134	SW 8260A
Toluene-d8 (Surr)		65	94.0	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		65	82.0	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		66	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		66	<0.005	mg/Kg	0.005	SW 8260A
Toluene		66	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		66	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		66	94.0	µ	74-134	SW 8260A
Toluene-d8 (Surr)		66	96.0	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		66	104.0	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A

#### Advisory Control Limits for Blanks:

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# QUALITY CONTROL REPORT

## BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Benzene		67	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		67	<0.005	mg/Kg	0.005	SW 8260A
Toluene		67	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		67	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		67	102.0	%	74-134	SW 8260A
Toluene-d8 (Surr)		67	106.0	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		67	110.0	%	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						
Benzene		68	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		68	<0.005	mg/Kg	0.005	SW 8260A
Toluene		68	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		68	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		68	100.0	%	74-134	SW 8260A
Toluene-d8 (Surr)		68	106.0	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		68	108.0	%	64-131	SW 8260A
PNA CMPDS - 8310 NONAQUEOUS						
Acenaphthene	760	1821	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	760	1821	<0.020	mg/Kg	0.020	SW 8310
Anthracene	760	1821	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	760	1821	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	760	1821	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	760	1821	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	760	1821	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	760	1821	<0.040	mg/Kg	0.040	SW 8310
Chrysene	760	1821	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	760	1821	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	760	1821	<0.020	mg/Kg	0.020	SW 8310
Fluorene	760	1821	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	760	1821	<0.0086	mg/Kg	0.0086	SW 8310

Advisory Control Limits for Blanks:

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# QUALITY CONTROL REPORT

## BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Naphthalene	760	1821	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	760	1821	<0.040	mg/Kg	0.040	SW 8310
Pyrene	760	1821	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	760	1821	79.3	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						
Acenaphthene	761	1822	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	761	1822	<0.020	mg/Kg	0.020	SW 8310
Anthracene	761	1822	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	761	1822	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	761	1822	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	761	1822	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	761	1822	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	761	1822	<0.040	mg/Kg	0.040	SW 8310
Chrysene	761	1822	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	761	1822	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	761	1822	<0.020	mg/Kg	0.020	SW 8310
Fluorene	761	1822	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	761	1822	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	761	1822	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	761	1822	<0.040	mg/Kg	0.040	SW 8310
Pyrene	761	1822	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	761	1822	80.7	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						
Acenaphthene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Anthracene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	764	1824	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	764	1824	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	764	1824	<0.0034	mg/Kg	0.0034	SW 8310

### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.

# QUALITY CONTROL REPORT

## BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting	Analytical
	Batch	Batch	Analysis		Limit	Method
	Number	Number	Results			
Benzo(a)pyrene	764	1824	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Chrysene	764	1824	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	764	1824	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Fluorene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	764	1824	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	764	1824	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Pyrene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	764	1824	80.9	%	43-125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	377	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	377	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	377	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	377	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	377	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	377	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	377	53	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	377	53	95.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	377	53	84.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	378	55	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	378	55	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	378	55	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	378	55	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	378	55	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	378	55	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	378	55	<0.040	mg/Kg	0.040	SW 8082

Advisory Control Limits for Blanks:

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# QUALITY CONTROL REPORT

## BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Decachlorobiphenyl (Surr)	378	55	70.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	378	55	77.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	378	59	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	378	59	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	378	59	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	378	59	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	378	59	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	378	59	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	378	59	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	378	59	76.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	378	59	63.0	%	NA	SW 8082

### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.

# QUALITY CONTROL REPORT

## LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	231	670	0.0100	0.0087	87.0
Arsenic, GFAA	232	670	0.0100	0.0102	102.0
Arsenic, GFAA	233	671	0.500	0.450	90.0
Barium, ICP	1161	2176	5.00	5.56	111.2
Barium, ICP	1162	2178	5.00	4.49	89.8
Barium, ICP	1163	2184	5.00	4.30	86.0
Cadmium, ICP	1161	2162	2.50	2.86	114.4
Cadmium, ICP	1162	2165	2.50	2.62	104.8
Cadmium, ICP	1163	2172	2.50	2.13	85.2
Chromium, ICP	1161	2147	5.00	5.38	107.6
Chromium, ICP	1162	2150	5.00	4.58	91.6
Chromium, ICP	1163	2157	5.00	3.60	72.0
Lead, ICP	1162	2388	5.00	4.30	86.0
Lead, ICP	1161	2392	5.00	5.95	119.0
Lead, ICP	1163	2395	5.00	3.70	74.0
Selenium, GFAA	231	557	0.0100	0.0092	92.0
Selenium, GFAA	232	558	0.0100	0.0093	93.0
Selenium, GFAA	233	558	0.0100	0.0082	82.0
Silver, AA	488	568	0.1	0.106	106.0
Silver, AA	489	569	0.10	0.102	102.0
Silver, AA	490	569	0.10	0.115	115.0
Silver, AA	492	569	0.10	0.084	84.0
Silver, AA	491	571	0.10	0.101	101.0
TPH MODIFIED 8015					
TPH as Gas	242	488	250	155	62.0
TPH as Diesel	242	488	250	205	82.0
TPH as Oil	242	488	250	198	79.2
N-octacosane (TPH surr)	242	488	100	102	102.0
TPH MODIFIED 8015					
TPH as Gas	243	485	200	213	106.5
TPH as Diesel	243	485	200	227	113.5

# QUALITY CONTROL REPORT

## LABORATORY CONTROL STANDARD

ENSR  
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Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc., Found	LCS % Recovery
TPH as Oil	243	485	200	216	108.0
N-octacosane (TPH surr)	243	485	100	112	112.0
UST VOLATILES NON-AQUEOUS					
Benzene		63	20.0	21.2	106.0
Ethylbenzene		63	20.0	20.8	104.0
Toluene		63	20.0	20.1	100.5
Xylenes, Total		63	60.0	61.7	102.8
Dibromofluoromethane (Surr)		63	50.0	48.7	97.4
Toluene-d8 (Surr)		63	50.0	48.9	97.8
4-Bromofluoromethane (Surr)		63	50.0	51.5	103.0
UST VOLATILES NON-AQUEOUS					
Benzene		65	20.0	20.0	100.0
Ethylbenzene		65	20.0	20.0	100.0
Toluene		65	20.0	21.0	105.0
Xylenes, Total		65	60.0	59.0	98.3
Dibromofluoromethane (Surr)		65	50.0	43.0	86.0
Toluene-d8 (Surr)		65	50.0	46.0	92.0
4-Bromofluoromethane (Surr)		65	50.0	41.0	82.0
UST VOLATILES NON-AQUEOUS					
Benzene		66	20.0	21.0	105.0
Ethylbenzene		66	20.0	23.0	115.0
Toluene		66	20.0	21.0	105.0
Xylenes, Total		66	60.0	66.0	110.0
Dibromofluoromethane (Surr)		66	50.0	48.0	96.0
Toluene-d8 (Surr)		66	50.0	50.0	100.0
4-Bromofluoromethane (Surr)		66	50.0	55.0	110.0
UST VOLATILES NON-AQUEOUS					
Benzene		67	20.0	22.0	110.0
Ethylbenzene		67	20.0	24.0	120.0
Toluene		67	20.0	22.0	110.0
Xylenes, Total		67	60.0	68.0	113.3

# QUALITY CONTROL REPORT

## LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Dibromofluoromethane (Surr)		67	50.0	48.0	96.0
Toluene-d8 (Surr)		67	50.0	50.0	100.0
4-Bromofluoromethane (Surr)		67	50.0	54.0	108.0
UST VOLATILES NON-AQUEOUS					
Benzene		68	20.0	21.0	105.0
Ethylbenzene		68	20.0	22.0	110.0
Toluene		68	20.0	21.0	105.0
Xylenes, Total		68	60.0	65.0	108.3
Dibromofluoromethane (Surr)		68	50.0	50.0	100.0
Toluene-d8 (Surr)		68	50.0	49.0	98.0
4-Bromofluoromethane (Surr)		68	50.0	55.0	110.0
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	760	1821	0.033	0.025	75.8
Acenaphthylene	760	1821	0.033	0.029	87.9
Anthracene	760	1821	0.033	0.029	87.9
Benzo(a)anthracene	760	1821	0.033	0.031	93.9
Benzo(b)fluoranthene	760	1821	0.033	0.028	84.8
Benzo(k)fluoranthene	760	1821	0.033	0.027	81.8
Benzo(a)pyrene	760	1821	0.033	0.028	84.8
Benzo(ghi)perylene	760	1821	0.033	0.030	90.9
Chrysene	760	1821	0.033	0.030	90.9
Dibenzo(a,h)anthracene	760	1821	0.033	0.028	84.8
Fluoranthene	760	1821	0.033	0.029	87.9
Fluorene	760	1821	0.033	0.029	87.9
Indeno(1,2,3-cd)pyrene	760	1821	0.033	0.030	90.9
Naphthalene	760	1821	0.033	0.023	69.7
Phenanthrene	760	1821	0.033	0.030	90.9
Pyrene	760	1821	0.033	0.030	90.9
Surr: p-Terphenyl	760	1821	2000	1,642	82.1
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	761	1822	0.033	0.031	93.9



# QUALITY CONTROL REPORT

## LABORATORY CONTROL STANDARD

ENSR  
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Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep	Run	True Conc.	Conc. Found	LCS % Recovery
	Batch Number	Batch Number			
Acenaphthylene	761	1822	0.033	0.036	109.1
Anthracene	761	1822	0.033	0.029	87.9
Benzo(a)anthracene	761	1822	0.033	0.031	93.9
Benzo(b)fluoranthene	761	1822	0.033	0.028	84.8
Benzo(k)fluoranthene	761	1822	0.033	0.028	84.8
Benzo(a)pyrene	761	1822	0.033	0.026	78.8
Benzo(ghi)perylene	761	1822	0.033	0.029	87.9
Chrysene	761	1822	0.033	0.030	90.9
Dibenzo(a,h)anthracene	761	1822	0.033	0.029	87.9
Fluoranthene	761	1822	0.033	0.029	87.9
Fluorene	761	1822	0.033	0.028	84.8
Indeno(1,2,3-cd)pyrene	761	1822	0.033	0.028	84.8
Naphthalene	761	1822	0.033	0.025	75.8
Phenanthrene	761	1822	0.033	0.030	90.9
Pyrene	761	1822	0.033	0.029	87.9
Surr: p-Terphenyl	761	1822	2000	1,712	85.6
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	764	1824	0.033	0.029	87.9
Acenaphthylene	764	1824	0.033	0.028	84.8
Anthracene	764	1824	0.033	0.028	84.8
Benzo(a)anthracene	764	1824	0.033	0.029	87.9
Benzo(b)fluoranthene	764	1824	0.033	0.029	87.9
Benzo(k)fluoranthene	764	1824	0.033	0.029	87.9
Benzo(a)pyrene	764	1824	0.033	0.030	90.9
Benzo(ghi)perylene	764	1824	0.033	0.029	87.9
Chrysene	764	1824	0.033	0.030	90.9
Dibenzo(a,h)anthracene	764	1824	0.033	0.029	87.9
Fluoranthene	764	1824	0.033	0.029	87.9
Fluorene	764	1824	0.033	0.030	90.9
Indeno(1,2,3-cd)pyrene	764	1824	0.033	0.029	87.9
Naphthalene	764	1824	0.033	0.027	81.8

# QUALITY CONTROL REPORT

## LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prép Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Phenanthrene	764	1824	0.033	0.029	87.9
Pyrene	764	1824	0.033	0.031	93.9
Surr: p-Terphenyl	764	1824	2000	1,767	88.3
PCB'S NON-AQUEOUS					
PCB-1016	377	53	500	419	83.8
PCB-1260	377	53	500	434	86.8
Decachlorobiphenyl (Surr)	377	53	100	84	84.0
2,4,5,6-TCMX (Surr)	377	53	100	75	75.0
PCB'S NON-AQUEOUS					
PCB-1016	378	55	500	500	100.0
PCB-1260	378	55	500	441	88.2
Decachlorobiphenyl (Surr)	378	55	100	81	81.0
2,4,5,6-TCMX (Surr)	378	55	100	85	85.0
PCB'S NON-AQUEOUS					
PCB-1016	378	59	500	499	99.8
PCB-1260	378	59	500	513	102.6
Decachlorobiphenyl (Surr)	378	59	100	95	95.0
2,4,5,6-TCMX (Surr)	378	59	100	83	83.0

# QUALITY CONTROL REPORT

## DUPLICATES

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13470

Mr. Wei-Lin Feng

Analyte	Prep	Run	Original	Duplicate	Units	RPD
	Batch	Batch				
	Number	Number				
pH, Non-Aqueous		183	6.95	7.05	units	1.4
pH, Non-Aqueous		183	8.07	8.14	units	0.9
Solids, Total		2513	64.1	62.1	‡	3.2
Solids, Total		2513	87.1	86.0	‡	1.3
Solids, Total		2513	98.2	98.2	‡	0.0
Solids, Total		2514	71.6	73.6	‡	2.8
Solids, Total		2514	88.9	89.3	‡	0.4
Solids, Total		2514	83.3	83.9	‡	0.7
Solids, Total		2514	71.1	68.4	‡	3.9

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- 
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

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- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.



NEL ENVIRONMENTAL TESTING, INC.

W. AIR W F WSTLEY F... COMPANY: WSK Corp. ADDRESS: 740 Pasquinielli Dr, S1124 Westmont, IL PHONE: (630) 802 1788 FAX: (630) 850 5307 PROJECT NAME/LOCATION: Corned Will City PROJECT NUMBER: 1801023 710 PROJECT MANAGER: Weilin Feng/Karen Dolmies

REPORT TO: K. Dolmies INVOICE TO: WSK P.O. NO. NET QUOTE NO.

SAMPLED BY: D. Buckley (PRINT NAME) SIGNATURE: [Signature]

ANALYSES: 9045, PH, PCBs 8310, BTEX 8260, TPH 8015, VMA Metals (Tables)

Table with columns: DATE, TIME, SAMPLE ID/DESCRIPTION, MATRIX, GRAB, COMP, HI, NaOH, HNO3, H2SO4, OTHER, and # and Type of Containers. Rows 1-14 contain sample data.

To assist us in selecting the proper method... Is this work being conducted for regulatory compliance monitoring? Yes \_\_\_ No \_\_\_

Table with columns: RCRA, UST, Other, NPDES Wastewater, Drinking Water, None. Includes 'LIMITED SAMPLE' comment.

CONDITION OF SAMPLE: BOTTLES INTACT? (YES, NO) FIELD FILTERED? YES/NO N/A... SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA... REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS

RECEIVED BY: [Signature] DATE: 10/16/98 TIME: 12:00... RECEIVED FOR NET BY: P. Merrill DATE: 10/16/98 TIME: 1700

REMARKS: NET Pickup... WEG-13-15\_5868



SAMPLED BY B. Buckley SIGNATURE B. Buckley

(PRINT NAME)

(PRINT NAME)

DATE	TIME	SAMPLE ID/DESCRIPTION	# and Type of Containers								OTHER	ANALYSES	COMMENTS		
			MATRIX	GRAB	COMP	HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	2					
10/16	1035	S15	S										X		
10/16	1045	S16	S										X		
10/16	1110	S17	S										X		
10/16	1115	S18	S										X		
10/16	1120	S19	S										X		
10/16	1125	S20	S										X		
10/16	1135	S21	S										X		
10/16	1140	S22	S										X		
10/16	1145	S23	S										X		

CONDITION OF SAMPLE: BOTTLES INTACT? YES NO VOLATILES FREE OF HEADSPACE? YES NO  
 FIELD FILTERED? YES NO  
 COC SEALS PRESENT AND INTACT? YES NO  
 TEMPERATURE UPON RECEIPT: 2.39C WATER  
 Bottles supplied by NET? YES NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_ DATE \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS

RELINQUISHED BY: B. Buckley DATE: 10/16/08 TIME: 1200  
 RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

METHOD OF SHIPMENT: NET Pickup  
 REMARKS:

RECEIVED FOR NET BY: P. Merrill







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(800) 807-2877

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Will County Station; 1801-023-710

Sample Number	Sample Description	Date Taken	Date Received
499073	X-3	10/19/1998	10/21/1998
499074	X-4	10/19/1998	10/21/1998
499075	X-5	10/19/1998	10/21/1998
499076	X-8	10/19/1998	10/21/1998
499077	X-9	10/19/1998	10/21/1998
499078	X-10	10/19/1998	10/21/1998
499079	X-11	10/19/1998	10/21/1998
499080	X-12	10/19/1998	10/21/1998
499081	X-14	10/19/1998	10/21/1998
499082	X-1	10/20/1998	10/21/1998
499083	X-2	10/20/1998	10/21/1998
499084	X-6	10/20/1998	10/21/1998
499085	X-7	10/20/1998	10/21/1998
499086	X-13	10/20/1998	10/21/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499073  
NET Job No.: 98.13604

Sample Description: X-3  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 08:45  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.81	units	10/30/1998	0.10	nwg	187	SW 90458
Solids, Total	71.1	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	6.2	mg/kg dw	11/06/1998	0.70	jtt	233 671	SW 7060
Barium, ICP	3,090	mg/kg dw	11/05/1998	1.4	kdw	1163 2184	SW 60108
Cadmium, ICP	0.73	mg/kg dw	11/05/1998	0.70	jtt	1163 2172	SW 60108
Chromium, ICP	20	mg/kg dw	11/05/1998	2.8	jtt	1163 2157	SW 60108
Lead, ICP	39	mg/kg dw	11/05/1998	5.6	jtt	1163 2395	SW 60108
Mercury, CVAA	<0.056	mg/kg dw	11/02/1998	0.056	sep	665 769	SW 7471A
Selenium, GFAA	0.56	mg/kg dw	11/06/1998	0.35	jtt	233 559	SW 7740
Silver, AA	3.5	mg/kg dw	11/02/1998	2.8	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<70	mg/kg dw	11/03/1998	70	out	244 489	SW 8015M
TPH as Diesel	<70	mg/kg dw	11/03/1998	70	out	244 489	SW 8015M
TPH as Oil	<70	mg/kg dw	11/03/1998	70	out	244 489	SW 8015M
N-octacosane (TPH surr)	82.0	%	11/03/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	11/01/1998	0.007	pll	69	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	11/01/1998	0.007	pll	69	SW 8260A
Toluene	<0.007	mg/kg dw	11/01/1998	0.007	pll	69	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	11/01/1998	0.007	pll	69	SW 8260A
Toluene-d8 (Surr)	80.0	%	11/01/1998	74-129	pll	69	SW 8260A
4-Bromofluoromethane (Surr)	82.6	%	11/01/1998	70-130	pll	69	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/30/1998		btl	766	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499073  
NET Job No.: 98.13604

Sample Description: X-3  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 08:45  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.028	mg/kg dw	11/04/1998	0.028	kdw	766 1827	SW 8310
Acenaphthylene	<0.028	mg/kg dw	11/04/1998	0.028	kdw	766 1827	SW 8310
Anthracene	<0.056	mg/kg dw	11/04/1998	0.056	kdw	766 1827	SW 8310
Benzo(a)anthracene	<0.0160	MX mg/kg dw	11/04/1998	0.0037	kdw	766 1827	SW 8310
Benzo(b)fluoranthene	<0.0051	mg/kg dw	11/04/1998	0.0051	kdw	766 1827	SW 8310
Benzo(k)fluoranthene	<0.0048	mg/kg dw	11/04/1998	0.0048	kdw	766 1827	SW 8310
Benzo(a)pyrene	<0.0065	mg/kg dw	11/04/1998	0.0065	kdw	766 1827	SW 8310
Benzo(ghi)perylene	<0.056	mg/kg dw	11/04/1998	0.056	kdw	766 1827	SW 8310
Chrysene	<0.04	mg/kg dw	11/04/1998	0.04	kdw	766 1827	SW 8310
Dibenzo(a,h)anthracene	<0.008	mg/kg dw	11/04/1998	0.008	kdw	766 1827	SW 8310
Fluoranthene	<0.028	mg/kg dw	11/04/1998	0.028	kdw	766 1827	SW 8310
Fluorene	<0.028	mg/kg dw	11/04/1998	0.028	kdw	766 1827	SW 8310
Indeno(1,2,3-cd)pyrene	<0.012	mg/kg dw	11/04/1998	0.012	kdw	766 1827	SW 8310
Naphthalene	<0.035	mg/kg dw	11/04/1998	0.035	kdw	766 1827	SW 8310
Phenanthrene	<0.056	mg/kg dw	11/04/1998	0.056	kdw	766 1827	SW 8310
Pyrene	<0.028	mg/kg dw	11/04/1998	0.028	kdw	766 1827	SW 8310
Surr: p-Terphenyl	43.0	%	11/04/1998	43-125	kdw	766 1827	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	379	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.056	mg/kg dw	11/06/1998	0.056	tls	379 53	SW 8082
PCB-1221	<0.056	mg/kg dw	11/06/1998	0.056	tls	379 53	SW 8082
PCB-1232	<0.056	mg/kg dw	11/06/1998	0.056	tls	379 53	SW 8082
PCB-1242	<0.056	mg/kg dw	11/06/1998	0.056	tls	379 53	SW 8082
PCB-1248	<0.056	mg/kg dw	11/06/1998	0.056	tls	379 53	SW 8082
PCB-1254	<0.056	mg/kg dw	11/06/1998	0.056	tls	379 53	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499073  
NET Job No.: 98.13604

Sample Description: X-3  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 08:45  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.056	mg/kg dw	11/06/1998	0.056	tls	379 53	SW 8082
Decachlorobiphenyl (Surr)	98.0	%	11/06/1998	NA	tls	379 53	SW 8082
2,4,5,6-TCMX (Surr)	86.0	%	11/06/1998	NA	tls	379 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499074  
NET Job No.: 98.13604

Sample Description: X-4  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	10.22	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	62.5	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	11	mg/kg dw	11/06/1998	0.80	jtt	233 671	SW 7060
Barium, ICP	4,320	mg/kg dw	11/05/1998	1.6	kdw	1163 2184	SW 6010B
Cadmium, ICP	1.1	mg/kg dw	11/05/1998	0.80	jtt	1163 2172	SW 6010B
Chromium, ICP	22	mg/kg dw	11/05/1998	3.2	jtt	1163 2157	SW 6010B
Lead, ICP	46	mg/kg dw	11/05/1998	6.4	jtt	1163 2395	SW 6010B
Mercury, CVAA	<0.064	mg/kg dw	11/02/1998	0.064	sep	665 769	SW 7471A
Selenium, GFAA	0.67	mg/kg dw	11/06/1998	0.40	jtt	233 559	SW 7740
Silver, AA	3.8	mg/kg dw	11/02/1998	3.2	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<80	mg/kg dw	11/03/1998	80	out	244 489	SW 8015M
TPH as Diesel	<80	mg/kg dw	11/03/1998	80	out	244 489	SW 8015M
TPH as Oil	<80	mg/kg dw	11/03/1998	80	out	244 489	SW 8015M
N-octacosane (TPH surr)	79.0	%	11/03/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.008	mg/kg dw	11/01/1998	0.008	pll	69	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	11/01/1998	0.008	pll	69	SW 8260A
Toluene	<0.008	mg/kg dw	11/01/1998	0.008	pll	69	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	11/01/1998	0.008	pll	69	SW 8260A
Toluene-d8 (Surr)	81.2	%	11/01/1998	74-129	pll	69	SW 8260A
4-Bromofluoromethane (Surr)	72.8	%	11/01/1998	70-130	pll	69	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/30/1998		btl	766	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499074  
NET Job No.: 98.13604

Sample Description: X-4  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.032	mg/kg dw	11/04/1998	0.032	kdw	766 1827	SW 8310
Acenaphthylene	<0.032	mg/kg dw	11/04/1998	0.032	kdw	766 1827	SW 8310
Anthracene	<0.064	mg/kg dw	11/04/1998	0.064	kdw	766 1827	SW 8310
Benzo(a)anthracene	<0.101	MX mg/kg dw	11/04/1998	0.0042	kdw	766 1827	SW 8310
Benzo(b)fluoranthene	<0.0058	mg/kg dw	11/04/1998	0.0058	kdw	766 1827	SW 8310
Benzo(k)fluoranthene	<0.0054	mg/kg dw	11/04/1998	0.0054	kdw	766 1827	SW 8310
Benzo(a)pyrene	<0.0074	mg/kg dw	11/04/1998	0.0074	kdw	766 1827	SW 8310
Benzo(ghi)perylene	<0.064	mg/kg dw	11/04/1998	0.064	kdw	766 1827	SW 8310
Chrysene	<0.05	mg/kg dw	11/04/1998	0.05	kdw	766 1827	SW 8310
Dibenzo(a,h)anthracene	<0.01	mg/kg dw	11/04/1998	0.01	kdw	766 1827	SW 8310
Fluoranthene	<0.032	mg/kg dw	11/04/1998	0.032	kdw	766 1827	SW 8310
Fluorene	<0.032	mg/kg dw	11/04/1998	0.032	kdw	766 1827	SW 8310
Indeno(1,2,3-cd)pyrene	<0.014	mg/kg dw	11/04/1998	0.014	kdw	766 1827	SW 8310
Naphthalene	<0.040	mg/kg dw	11/04/1998	0.040	kdw	766 1827	SW 8310
Phenanthrene	<0.064	mg/kg dw	11/04/1998	0.064	kdw	766 1827	SW 8310
Pyrene	<0.032	mg/kg dw	11/04/1998	0.032	kdw	766 1827	SW 8310
Surr: p-Terphenyl	26.0	RM %	11/04/1998	43-125	kdw	766 1827	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	379	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.064	mg/kg dw	11/05/1998	0.064	tls	379 53	SW 8082
PCB-1221	<0.064	mg/kg dw	11/05/1998	0.064	tls	379 53	SW 8082
PCB-1232	<0.064	mg/kg dw	11/05/1998	0.064	tls	379 53	SW 8082
PCB-1242	<0.064	mg/kg dw	11/05/1998	0.064	tls	379 53	SW 8082
PCB-1248	<0.064	mg/kg dw	11/05/1998	0.064	tls	379 53	SW 8082
PCB-1254	<0.064	mg/kg dw	11/05/1998	0.064	tls	379 53	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.  
RM : Low surrogate recovery verified by re-analysis



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499074

NET Job No.: 98.13604

Sample Description: X-4  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.064	mg/kg dw	11/05/1998	0.064	tls	379 53	SW 8082
Decachlorobiphenyl (Surr)	103.0	%	11/05/1998	NA	tls	379 53	SW 8082
2,4,5,6-TCMX (Surr)	95.0	%	11/05/1998	NA	tls	379 53	SW 8082





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499075  
NET Job No.: 98.13604

Sample Description: X-5  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 15:05  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.97	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	41.9	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	7.9	mg/kg dw	11/06/1998	1.2	jtt	233 671	SW 7060
Barium, ICP	2,860	mg/kg dw	11/05/1998	2.4	kdw	1163 2184	SW 6010B
Cadmium, ICP	<1.2	mg/kg dw	11/05/1998	1.2	jtt	1163 2172	SW 6010B
Chromium, ICP	31	mg/kg dw	11/05/1998	4.8	jtt	1163 2157	SW 6010B
Lead, ICP	31	mg/kg dw	11/05/1998	9.5	jtt	1163 2395	SW 6010B
Mercury, CVAA	<0.095	mg/kg dw	11/02/1998	0.095	sep	665 769	SW 7471A
Selenium, GFAA	0.81	mg/kg dw	11/06/1998	0.60	jtt	233 559	SW 7740
Silver, AA	<4.8	mg/kg dw	11/02/1998	4.8	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<120	mg/kg dw	11/03/1998	120	out	244 489	SW 8015M
TPH as Diesel	<120	mg/kg dw	11/03/1998	120	out	244 489	SW 8015M
TPH as Oil	<120	mg/kg dw	11/03/1998	120	out	244 489	SW 8015M
N-octacosane (TPH surr)	78.0	%	11/03/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	11/02/1998	0.01	jap	73	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	11/02/1998	0.01	jap	73	SW 8260A
Toluene	<0.01	mg/kg dw	11/02/1998	0.01	jap	73	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	11/02/1998	0.01	jap	73	SW 8260A
Toluene-d8 (Surr)	70.2 R	%	11/02/1998	74-129	jap	73	SW 8260A
4-Bromofluoromethane (Surr)	56.8 R	%	11/02/1998	70-130	jap	73	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/30/1998		btl	766	SW 3540C

R : Surrogate recovery verified by re-analysis.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499075  
NET Job No.: 98.13604

Sample Description: X-5  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 15:05  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.048	mg/kg dw	11/04/1998	0.048	kdw	766 1827	SW 8310
Acenaphthylene	<0.048	mg/kg dw	11/04/1998	0.048	kdw	766 1827	SW 8310
Anthracene	<0.095	mg/kg dw	11/04/1998	0.095	kdw	766 1827	SW 8310
Benzo(a)anthracene	<0.110	MX mg/kg dw	11/04/1998	0.0062	kdw	766 1827	SW 8310
Benzo(b)fluoranthene	<0.0678	MX mg/kg dw	11/04/1998	0.0086	kdw	766 1827	SW 8310
Benzo(k)fluoranthene	<0.0267	MX mg/kg dw	11/04/1998	0.0081	kdw	766 1827	SW 8310
Benzo(a)pyrene	<0.0451	MX mg/kg dw	11/04/1998	0.011	kdw	766 1827	SW 8310
Benzo(ghi)perylene	<0.095	mg/kg dw	11/04/1998	0.095	kdw	766 1827	SW 8310
Chrysene	<0.11	MX mg/kg dw	11/04/1998	0.07	kdw	766 1827	SW 8310
Dibenzo(a,h)anthracene	<0.01	mg/kg dw	11/04/1998	0.01	kdw	766 1827	SW 8310
Fluoranthene	0.076	mg/kg dw	11/04/1998	0.048	kdw	766 1827	SW 8310
Fluorene	<0.048	mg/kg dw	11/04/1998	0.048	kdw	766 1827	SW 8310
Indeno(1,2,3-cd)pyrene	<0.021	mg/kg dw	11/04/1998	0.021	kdw	766 1827	SW 8310
Naphthalene	<0.060	mg/kg dw	11/04/1998	0.060	kdw	766 1827	SW 8310
Phenanthrene	<0.095	mg/kg dw	11/04/1998	0.095	kdw	766 1827	SW 8310
Pyrene	0.057	mg/kg dw	11/04/1998	0.048	kdw	766 1827	SW 8310
Surr: p-Terphenyl	30.2	RM %	11/04/1998	43-125	kdw	766 1827	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	379	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.095	mg/kg dw	11/05/1998	0.095	tls	379 53	SW 8082
PCB-1221	<0.095	mg/kg dw	11/05/1998	0.095	tls	379 53	SW 8082
PCB-1232	<0.095	mg/kg dw	11/05/1998	0.095	tls	379 53	SW 8082
PCB-1242	<0.095	mg/kg dw	11/05/1998	0.095	tls	379 53	SW 8082
PCB-1248	<0.095	mg/kg dw	11/05/1998	0.095	tls	379 53	SW 8082
PCB-1254	<0.095	mg/kg dw	11/05/1998	0.095	tls	379 53	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.  
RM : Low surrogate recovery verified by re-analysis



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499075  
NET Job No.: 98.13604

Sample Description: X-5  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 15:05  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.095	mg/kg dw	11/05/1998	0.095	tls	379 53	SW 8082
Decachlorobiphenyl (Surr)	96.0	%	11/05/1998	NA	tls	379 53	SW 8082
2,4,5,6-TCMX (Surr)	70.0	%	11/05/1998	NA	tls	379 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499076  
NET Job No.: 98.13604

Sample Description: X-8  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 14:55  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.67	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	54.4	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	8.3	mg/kg dw	11/06/1998	0.92	jtt	237 671	SW 7060
Barium, ICP	2,020	mg/kg dw	11/05/1998	1.8	kdw	1163 2184	SW 6010B
Cadmium, ICP	<0.92	mg/kg dw	11/05/1998	0.92	jtt	1163 2172	SW 6010B
Chromium, ICP	12	mg/kg dw	11/05/1998	3.7	jtt	1163 2157	SW 6010B
Lead, ICP	26	mg/kg dw	11/05/1998	7.4	jtt	1163 2395	SW 6010B
Mercury, CVAA	<0.074	mg/kg dw	11/02/1998	0.074	sep	665 769	SW 7471A
Selenium, GFAA	<0.46	mg/kg dw	11/06/1998	0.46	mhp	237 560	SW 7740
Silver, AA	<3.7	mg/kg dw	11/02/1998	3.7	sep	490 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<92	mg/kg dw	11/03/1998	92	out	244 489	SW 8015M
TPH as Diesel	<92	mg/kg dw	11/03/1998	92	out	244 489	SW 8015M
TPH as Oil	434	PT mg/kg dw	11/03/1998	92	out	244 489	SW 8015M
N-octacosane (TPH surr)	84.0	%	11/03/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.009	mg/kg dw	11/02/1998	0.009	jap	73	SW 8260A
Ethylbenzene	<0.009	mg/kg dw	11/02/1998	0.009	jap	73	SW 8260A
Toluene	<0.009	mg/kg dw	11/02/1998	0.009	jap	73	SW 8260A
Xylenes, Total	<0.009	mg/kg dw	11/02/1998	0.009	jap	73	SW 8260A
Toluene-d8 (Surr)	85.2	%	11/02/1998	74-129	jap	73	SW 8260A
4-Bromofluoromethane (Surr)	63.2	R %	11/02/1998	70-130	jap	73	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/30/1998		btl	766	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.  
R : Surrogate recovery verified by re-analysis.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499076  
NET Job No.: 98.13604

Sample Description: X-8  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 14:55  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.037	mg/kg dw	11/05/1998	0.037	keh	766 1831	SW 8310
Acenaphthylene	<0.037	mg/kg dw	11/05/1998	0.037	keh	766 1831	SW 8310
Anthracene	<0.14	MX mg/kg dw	11/05/1998	0.074	keh	766 1831	SW 8310
Benzo(a)anthracene	<0.94	MX mg/kg dw	11/05/1998	0.0048	keh	766 1831	SW 8310
Benzo(b)fluoranthene	<0.40	MX mg/kg dw	11/05/1998	0.0066	keh	766 1831	SW 8310
Benzo(k)fluoranthene	<0.40	MX mg/kg dw	11/05/1998	0.0062	keh	766 1831	SW 8310
Benzo(a)pyrene	<0.29	MX mg/kg dw	11/05/1998	0.0085	keh	766 1831	SW 8310
Benzo(ghi)perylene	<0.074	mg/kg dw	11/05/1998	0.074	keh	766 1831	SW 8310
Chrysene	0.29	mg/kg dw	11/06/1998	0.06	keh	766 1832	SW 8310
Dibenzo(a,h)anthracene	<0.033	MX mg/kg dw	11/05/1998	0.01	keh	766 1831	SW 8310
Fluoranthene	<0.26	MX mg/kg dw	11/05/1998	0.037	keh	766 1831	SW 8310
Fluorene	<0.11	MX mg/kg dw	11/05/1998	0.037	keh	766 1831	SW 8310
Indeno(1,2,3-cd)pyrene	<0.016	mg/kg dw	11/05/1998	0.016	keh	766 1831	SW 8310
Naphthalene	0.26	mg/kg dw	11/05/1998	0.046	keh	766 1831	SW 8310
Phenanthrene	0.22	mg/kg dw	11/05/1998	0.074	keh	766 1831	SW 8310
Pyrene	0.28	mg/kg dw	11/05/1998	0.037	keh	766 1831	SW 8310
Surr: p-Terphenyl	Masked		11/05/1998	43-125	keh	766 1831	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	379	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.074	mg/kg dw	11/06/1998	0.074	tls	379 53	SW 8082
PCB-1221	<0.074	mg/kg dw	11/06/1998	0.074	tls	379 53	SW 8082
PCB-1232	<0.074	mg/kg dw	11/06/1998	0.074	tls	379 53	SW 8082
PCB-1242	<0.074	mg/kg dw	11/06/1998	0.074	tls	379 53	SW 8082
PCB-1248	<0.074	mg/kg dw	11/06/1998	0.074	tls	379 53	SW 8082
PCB-1254	<0.074	mg/kg dw	11/06/1998	0.074	tls	379 53	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499076  
NET Job No.: 98.13604

Sample Description: X-8  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 14:55  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.074	mg/kg dw	11/06/1998	0.074	tls	379 53	SW 8082
Decachlorobiphenyl (Surr)	96.0	%	11/06/1998	NA	tls	379 53	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	11/06/1998	NA	tls	379 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499077  
NET Job No.: 98.13604

Sample Description: X-9  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 14:05  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.82	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	20.6	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	9.7	mg/kg dw	11/06/1998	2.4	mhp	234 672	SW 7060
Barium, ICP	5,830	mg/kg dw	11/05/1998	4.9	kdw	1164 2186	SW 6010B
Cadmium, ICP	3.7	mg/kg dw	11/05/1998	2.4	jtt	1164 2172	SW 6010B
Chromium, ICP	680	mg/kg dw	11/05/1998	9.7	jtt	1164 2157	SW 6010B
Lead, ICP	874	mg/kg dw	11/05/1998	19	jtt	1164 2395	SW 6010B
Mercury, CVAAs	<0.19	mg/kg dw	11/02/1998	0.19	sep	665 769	SW 7471A
Selenium, GFAA	<1.2	mg/kg dw	11/06/1998	1.2	jtt	234 559	SW 7740
Silver, AA	<9.7	mg/kg dw	11/04/1998	9.7	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<240	mg/kg dw	11/03/1998	240	out	244 489	SW 8015M
TPH as Diesel	3,380	PT mg/kg dw	11/03/1998	240	out	244 489	SW 8015M
TPH as Oil	<240	mg/kg dw	11/03/1998	240	out	244 489	SW 8015M
N-octacosane (TPH surr)	101.0	%	11/03/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.02	mg/kg dw	11/02/1998	0.02	jap	73	SW 8260A
Ethylbenzene	<0.02	mg/kg dw	11/02/1998	0.02	jap	73	SW 8260A
Toluene	<0.02	mg/kg dw	11/02/1998	0.02	jap	73	SW 8260A
Xylenes, Total	<0.02	mg/kg dw	11/02/1998	0.02	jap	73	SW 8260A
Toluene-d8 (Surr)	88.2	%	11/02/1998	74-129	jap	73	SW 8260A
4-Bromofluoromethane (Surr)	90.0	%	11/02/1998	70-130	jap	73	SW 8260A
Prep, 8310 PNAAs NON-AQUEOUS	extracted		10/30/1998		btl	766	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the diesel range.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499077

NET Job No.: 98.13604

Sample Description: X-9  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 14:05  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.97	mg/kg dw	11/05/1998	0.097	keh	766 1831	SW 8310
Acenaphthylene	<0.97	mg/kg dw	11/05/1998	0.097	keh	766 1831	SW 8310
Anthracene	8.7	mg/kg dw	11/05/1998	0.19	keh	766 1831	SW 8310
Benzo(a)anthracene	16	mg/kg dw	11/05/1998	0.013	keh	766 1831	SW 8310
Benzo(b)fluoranthene	12	mg/kg dw	11/05/1998	0.017	keh	766 1831	SW 8310
Benzo(k)fluoranthene	8.3	mg/kg dw	11/05/1998	0.017	keh	766 1831	SW 8310
Benzo(a)pyrene	14	mg/kg dw	11/05/1998	0.022	keh	766 1831	SW 8310
Benzo(ghi)perylene	11	mg/kg dw	11/05/1998	0.19	keh	766 1831	SW 8310
Chrysene	17	mg/kg dw	11/05/1998	0.1	keh	766 1831	SW 8310
Dibenzo(a,h)anthracene	<1.6	mg/kg dw	11/05/1998	0.03	keh	766 1831	SW 8310
Fluoranthene	58	mg/kg dw	11/05/1998	0.097	keh	766 1831	SW 8310
Fluorene	8.7	mg/kg dw	11/05/1998	0.097	keh	766 1831	SW 8310
Indeno(1,2,3-cd)pyrene	7.8	mg/kg dw	11/05/1998	0.042	keh	766 1831	SW 8310
Naphthalene	<1.2	mg/kg dw	11/05/1998	0.12	keh	766 1831	SW 8310
Phenanthrene	42	mg/kg dw	11/05/1998	0.19	keh	766 1831	SW 8310
Pyrene	49	mg/kg dw	11/05/1998	0.097	keh	766 1831	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	766 1831	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	379	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.19	mg/kg dw	11/06/1998	0.19	tls	379 53	SW 8082
PCB-1221	<0.19	mg/kg dw	11/06/1998	0.19	tls	379 53	SW 8082
PCB-1232	<0.19	mg/kg dw	11/06/1998	0.19	tls	379 53	SW 8082
PCB-1242	<0.19	mg/kg dw	11/06/1998	0.19	tls	379 53	SW 8082
PCB-1248	<0.19	mg/kg dw	11/06/1998	0.19	tls	379 53	SW 8082
PCB-1254	<0.19	mg/kg dw	11/06/1998	0.19	tls	379 53	SW 8082

ELV : Elevated reporting limits due to matrix interference.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499077  
NET Job No.: 98.13604

Sample Description: X-9  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 14:05  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.19	mg/kg dw	11/06/1998	0.19	tls	379 53	SW 8082
Decachlorobiphenyl (Surr)	87.0	%	11/06/1998	NA	tls	379 53	SW 8082
2,4,5,6-TCMX (Surr)	73.0	%	11/06/1998	NA	tls	379 53	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499078  
NET Job No.: 98.13604

Sample Description: X-10  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.72	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	80.4	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	12	mg/kg dw	11/06/1998	0.62	mhp	234 672	SW 7060
Barium, ICP	92	mg/kg dw	11/05/1998	1.2	kdw	1164 2186	SW 6010B
Cadmium, ICP	0.87	mg/kg dw	11/05/1998	0.62	jtt	1164 2172	SW 6010B
Chromium, ICP	19	mg/kg dw	11/05/1998	2.5	jtt	1164 2157	SW 6010B
Lead, ICP	20	mg/kg dw	11/05/1998	5.0	jtt	1164 2395	SW 6010B
Mercury, CVAAs	<0.050	mg/kg dw	11/02/1998	0.050	sep	665 769	SW 7471A
Selenium, GFAA	<0.31	mg/kg dw	11/06/1998	0.31	jtt	234 559	SW 7740
Silver, AA	<2.5	mg/kg dw	11/04/1998	2.5	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<622	mg/kg dw	11/04/1998	62	out	244 489	SW 8015M
TPH as Diesel	3,000	PT mg/kg dw	11/04/1998	62	out	244 489	SW 8015M
TPH as Oil	<622	mg/kg dw	11/04/1998	62	out	244 489	SW 8015M
N-octacosane (TPH surr)	110.0	%	11/04/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/02/1998	0.006	jap	73	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/02/1998	0.006	jap	73	SW 8260A
Toluene	<0.006	mg/kg dw	11/02/1998	0.006	jap	73	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/02/1998	0.006	jap	73	SW 8260A
Toluene-d8 (Surr)	100.6	%	11/02/1998	74-129	jap	73	SW 8260A
4-Bromofluoromethane (Surr)	104.6	%	11/02/1998	70-130	jap	73	SW 8260A
Prep, 8310 PNAAs NON-AQUEOUS	extracted		10/30/1998		btl	766	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the diesel range.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499078

NET Job No.: 98.13604

Sample Description: X-10  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.025	mg/kg dw	11/05/1998	0.025	keh	766 1831	SW 8310
Acenaphthylene	<0.025	mg/kg dw	11/05/1998	0.025	keh	766 1831	SW 8310
Anthracene	<0.46	MX mg/kg dw	11/05/1998	0.050	keh	766 1831	SW 8310
Benzo(a)anthracene	<0.21	MX mg/kg dw	11/05/1998	0.0032	keh	766 1831	SW 8310
Benzo(b)fluoranthene	<0.073	MX mg/kg dw	11/05/1998	0.0045	keh	766 1831	SW 8310
Benzo(k)fluoranthene	<0.057	MX mg/kg dw	11/05/1998	0.0042	keh	766 1831	SW 8310
Benzo(a)pyrene	<0.041	MX mg/kg dw	11/05/1998	0.0057	keh	766 1831	SW 8310
Benzo(ghi)perylene	<0.050	mg/kg dw	11/05/1998	0.050	keh	766 1831	SW 8310
Chrysene	<0.04	mg/kg dw	11/06/1998	0.04	keh	766 1832	SW 8310
Dibenzo(a,h)anthracene	<0.016	MX mg/kg dw	11/05/1998	0.007	keh	766 1831	SW 8310
Fluoranthene	<0.30	MX mg/kg dw	11/05/1998	0.025	keh	766 1831	SW 8310
Fluorene	0.15	mg/kg dw	11/05/1998	0.025	keh	766 1831	SW 8310
Indeno(1,2,3-cd)pyrene	<0.011	mg/kg dw	11/05/1998	0.011	keh	766 1831	SW 8310
Naphthalene	<0.031	mg/kg dw	11/05/1998	0.031	keh	766 1831	SW 8310
Phenanthrene	0.14	mg/kg dw	11/05/1998	0.050	keh	766 1831	SW 8310
Pyrene	<0.52	MX mg/kg dw	11/05/1998	0.025	keh	766 1831	SW 8310
Surr: p-Terphenyl	Masked		11/05/1998	43-125	keh	766 1831	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	379	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.050	mg/kg dw	11/05/1998	0.050	tls	379 52	SW 8082
PCB-1221	<0.050	mg/kg dw	11/05/1998	0.050	tls	379 52	SW 8082
PCB-1232	<0.050	mg/kg dw	11/05/1998	0.050	tls	379 52	SW 8082
PCB-1242	<0.050	mg/kg dw	11/05/1998	0.050	tls	379 52	SW 8082
PCB-1248	<0.050	mg/kg dw	11/05/1998	0.050	tls	379 52	SW 8082
PCB-1254	<0.050	mg/kg dw	11/05/1998	0.050	tls	379 52	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499078  
NET Job No.: 98.13604

Sample Description: X-10  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.050	mg/kg dw	11/05/1998	0.050	tls	379 52	SW 8082
Decachlorobiphenyl (Surr)	89.0	%	11/05/1998	NA	tls	379 52	SW 8082
2,4,5,6-TCMX (Surr)	71.0	%	11/05/1998	NA	tls	379 52	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499079  
NET Job No.: 98.13604

Sample Description: X-11  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 12:25  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.65	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	68.1	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	2.5	mg/kg dw	11/06/1998	0.73	mhp	234 672	SW 7060
Barium, ICP	470	mg/kg dw	11/05/1998	1.5	kdw	1164 2186	SW 6010B
Cadmium, ICP	0.78	mg/kg dw	11/05/1998	0.73	jtt	1164 2172	SW 6010B
Chromium, ICP	7.6	mg/kg dw	11/05/1998	2.9	jtt	1164 2157	SW 6010B
Lead, ICP	16	mg/kg dw	11/05/1998	5.9	jtt	1164 2395	SW 6010B
Mercury, CVAA	<0.059	mg/kg dw	11/02/1998	0.059	sep	665 769	SW 7471A
Selenium, GFAA	<0.37	mg/kg dw	11/06/1998	0.37	jtt	234 559	SW 7740
Silver, AA	<2.9	mg/kg dw	11/04/1998	2.9	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<734	mg/kg dw	11/04/1998	73	out	244 489	SW 8015M
TPH as Diesel	16,700 PT	mg/kg dw	11/04/1998	73	out	244 489	SW 8015M
TPH as Oil	<734	mg/kg dw	11/04/1998	73	out	244 489	SW 8015M
N-octacosane (TPH surr)	93.0	%	11/04/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	11/02/1998	0.007	jap	73	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	11/02/1998	0.007	jap	73	SW 8260A
Toluene	<0.007	mg/kg dw	11/02/1998	0.007	jap	73	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	11/02/1998	0.007	jap	73	SW 8260A
Toluene-d8 (Surr)	88.4	%	11/02/1998	74-129	jap	73	SW 8260A
4-Bromofluoromethane (Surr)	97.6	%	11/02/1998	70-130	jap	73	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/30/1998		btl	766	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the diesel range.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499079  
NET Job No.: 98.13604

Sample Description: X-11  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 12:25  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	1.4	mg/kg dw	11/05/1998	0.029	keh	766 1831	SW 8310
Acenaphthylene	<0.58	mg/kg dw	11/05/1998	0.029	keh	766 1831	SW 8310
Anthracene	<15	mg/kg dw	11/05/1998	0.059	keh	766 1831	SW 8310
Benzo(a)anthracene	<5.9	mg/kg dw	11/05/1998	0.0038	keh	766 1831	SW 8310
Benzo(b)fluoranthene	<0.93	mg/kg dw	11/05/1998	0.0053	keh	766 1831	SW 8310
Benzo(k)fluoranthene	<1.1	mg/kg dw	11/05/1998	0.0050	keh	766 1831	SW 8310
Benzo(a)pyrene	<0.81	mg/kg dw	11/05/1998	0.0068	keh	766 1831	SW 8310
Benzo(ghi)perylene	<1.2	mg/kg dw	11/05/1998	0.059	keh	766 1831	SW 8310
Chrysene	<0.8	mg/kg dw	11/06/1998	0.04	keh	766 1832	SW 8310
Dibenzo(a,h)anthracene	<0.2	mg/kg dw	11/05/1998	0.009	keh	766 1831	SW 8310
Fluoranthene	<13	mg/kg dw	11/05/1998	0.029	keh	766 1831	SW 8310
Fluorene	7.8	mg/kg dw	11/05/1998	0.029	keh	766 1831	SW 8310
Indeno(1,2,3-cd)pyrene	<0.26	mg/kg dw	11/05/1998	0.013	keh	766 1831	SW 8310
Naphthalene	<0.74	mg/kg dw	11/05/1998	0.037	keh	766 1831	SW 8310
Phenanthrene	<15	mg/kg dw	11/05/1998	0.059	keh	766 1831	SW 8310
Pyrene	<19	mg/kg dw	11/05/1998	0.029	keh	766 1831	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	766 1831	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	11/02/1998	COMPLETE	wna	379	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.059	mg/kg dw	11/05/1998	0.059	tls	379 52	SW 8082
PCB-1221	<0.059	mg/kg dw	11/05/1998	0.059	tls	379 52	SW 8082
PCB-1232	<0.059	mg/kg dw	11/05/1998	0.059	tls	379 52	SW 8082
PCB-1242	<0.059	mg/kg dw	11/05/1998	0.059	tls	379 52	SW 8082
PCB-1248	<0.059	mg/kg dw	11/05/1998	0.059	tls	379 52	SW 8082
PCB-1254	<0.059	mg/kg dw	11/05/1998	0.059	tls	379 52	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499079  
NET Job No.: 98.13604

Sample Description: X-11  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 12:25  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.059	mg/kg dw	11/05/1998	0.059	tls	379 52	SW 8082
Decachlorobiphenyl (Surr)	80.0	%	11/05/1998	NA	tls	379 52	SW 8082
2,4,5,6-TCMX (Surr)	64.0	%	11/05/1998	NA	tls	379 52	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499080  
NET Job No.: 98.13604

Sample Description: X-12  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.11	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	72.9	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	1.9	mg/kg dw	11/06/1998	0.69	mhp	234 672	SW 7060
Barium, ICP	329	mg/kg dw	11/05/1998	1.4	kdw	1164 2186	SW 6010B
Cadmium, ICP	1.9	mg/kg dw	11/05/1998	0.69	jtt	1164 2172	SW 6010B
Chromium, ICP	11	mg/kg dw	11/05/1998	2.7	jtt	1164 2157	SW 6010B
Lead, ICP	12	mg/kg dw	11/05/1998	5.5	jtt	1164 2395	SW 6010B
Mercury, CVAA	<0.055	mg/kg dw	11/02/1998	0.055	sep	665 769	SW 7471A
Selenium, GFAA	<0.34	mg/kg dw	11/06/1998	0.34	mhp	234 560	SW 7740
Silver, AA	<2.7	mg/kg dw	11/04/1998	2.7	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<69	mg/kg dw	11/04/1998	69	out	244 489	SW 8015M
TPH as Diesel	475	PT mg/kg dw	11/04/1998	69	out	244 489	SW 8015M
TPH as Oil	<69	mg/kg dw	11/04/1998	69	out	244 489	SW 8015M
N-octacosane (TPH surr)	114.0	%	11/04/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	11/02/1998	0.007	jap	73	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	11/02/1998	0.007	jap	73	SW 8260A
Toluene	<0.007	mg/kg dw	11/02/1998	0.007	jap	73	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	11/02/1998	0.007	jap	73	SW 8260A
Toluene-d8 (Surr)	94.8	%	11/02/1998	74-129	jap	73	SW 8260A
4-Bromofluoromethane (Surr)	98.8	%	11/02/1998	70-130	jap	73	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/30/1998		btl	767	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the diesel range.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499080  
NET Job No.: 98.13604

Sample Description: X-12  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.94	mg/kg dw	11/05/1998	0.027	keh	767 1831	SW 8310
Acenaphthylene	<0.94	mg/kg dw	11/05/1998	0.027	keh	767 1831	SW 8310
Anthracene	2.9	mg/kg dw	11/05/1998	0.055	keh	767 1831	SW 8310
Benzo(a)anthracene	<9.2	mg/kg dw	11/05/1998	0.0036	keh	767 1831	SW 8310
Benzo(b)fluoranthene	1.9	mg/kg dw	11/05/1998	0.0049	keh	767 1831	SW 8310
Benzo(k)fluoranthene	<2.2	mg/kg dw	11/05/1998	0.0047	keh	767 1831	SW 8310
Benzo(a)pyrene	2.2	mg/kg dw	11/05/1998	0.0063	keh	767 1831	SW 8310
Benzo(ghi)perylene	<1.9	mg/kg dw	11/05/1998	0.055	keh	767 1831	SW 8310
Chrysene	1.5	mg/kg dw	11/06/1998	0.04	keh	767 1832	SW 8310
Dibenzo(a,h)anthracene	<0.3	mg/kg dw	11/05/1998	0.008	keh	767 1831	SW 8310
Fluoranthene	6.2	mg/kg dw	11/05/1998	0.027	keh	767 1831	SW 8310
Fluorene	1.6	mg/kg dw	11/05/1998	0.027	keh	767 1831	SW 8310
Indeno(1,2,3-cd)pyrene	0.82	mg/kg dw	11/05/1998	0.012	keh	767 1831	SW 8310
Naphthalene	<1.2	mg/kg dw	11/05/1998	0.034	keh	767 1831	SW 8310
Phenanthrene	4.1	mg/kg dw	11/05/1998	0.055	keh	767 1831	SW 8310
Pyrene	3.8	mg/kg dw	11/05/1998	0.027	keh	767 1831	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	767 1831	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	379	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.055	mg/kg dw	11/05/1998	0.055	tls	379 52	SW 8082
PCB-1221	<0.055	mg/kg dw	11/05/1998	0.055	tls	379 52	SW 8082
PCB-1232	<0.055	mg/kg dw	11/05/1998	0.055	tls	379 52	SW 8082
PCB-1242	<0.055	mg/kg dw	11/05/1998	0.055	tls	379 52	SW 8082
PCB-1248	<0.055	mg/kg dw	11/05/1998	0.055	tls	379 52	SW 8082
PCB-1254	<0.055	mg/kg dw	11/05/1998	0.055	tls	379 52	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499080

NET Job No.: 98.13604

Sample Description: X-12  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.15	mg/kg dw	11/05/1998	0.055	tls	379 52	SW 8082
Decachlorobiphenyl (Surr)	81.0	%	11/05/1998	NA	tls	379 52	SW 8082
2,4,5,6-TCMX (Surr)	65.0	%	11/05/1998	NA	tls	379 52	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499081  
NET Job No.: 98.13604

Sample Description: X-14  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998 Date Received: 10/21/1998  
Time Taken: 09:10 Time Received: 08:30  
IEPA Cert. No. 100221 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.17	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	43.4	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	5.3	mg/kg dw	11/06/1998	1.2	mhp	234 672	SW 7060
Barium, ICP	2,350	mg/kg dw	11/05/1998	2.3	kdw	1164 2186	SW 6010B
Cadmium, ICP	1.2	mg/kg dw	11/05/1998	1.2	jtt	1164 2172	SW 6010B
Chromium, ICP	32	mg/kg dw	11/05/1998	4.6	jtt	1164 2157	SW 6010B
Lead, ICP	30	mg/kg dw	11/05/1998	9.2	jtt	1164 2395	SW 6010B
Mercury, CVAAs	<0.092	mg/kg dw	11/02/1998	0.092	sep	665 769	SW 7471A
Selenium, GFAA	<0.58	M+ mg/kg dw	11/06/1998	0.58	mhp	234 560	SW 7740
Silver, AA	<4.6	mg/kg dw	11/04/1998	4.6	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<120	mg/kg dw	11/04/1998	120	out	244 489	SW 8015M
TPH as Diesel	<120	mg/kg dw	11/04/1998	120	out	244 489	SW 8015M
TPH as Oil	<120	mg/kg dw	11/04/1998	120	out	244 489	SW 8015M
N-octacosane (TPH surr)	96.0	%	11/04/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	11/02/1998	0.01	jap	73	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	11/02/1998	0.01	jap	73	SW 8260A
Toluene	<0.01	mg/kg dw	11/02/1998	0.01	jap	73	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	11/02/1998	0.01	jap	73	SW 8260A
Toluene-d8 (Surr)	79.0	%	11/02/1998	74-129	jap	73	SW 8260A
4-Bromofluoromethane (Surr)	70.6	%	11/02/1998	70-130	jap	73	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/30/1998		btl	767	SW 3540C

M+ : Analyte quantified by MSA due to low spike recovery.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499081

NET Job No.: 98.13604

Sample Description: X-14  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 09:10  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.046	mg/kg dw	11/05/1998	0.046	kdw	767 1827	SW 8310
Acenaphthylene	<0.046	mg/kg dw	11/05/1998	0.046	kdw	767 1827	SW 8310
Anthracene	<0.092	mg/kg dw	11/05/1998	0.092	kdw	767 1827	SW 8310
Benzo(a)anthracene	<0.0477	MX mg/kg dw	11/05/1998	0.0060	kdw	767 1827	SW 8310
Benzo(b)fluoranthene	0.015	mg/kg dw	11/05/1998	0.0083	kdw	767 1827	SW 8310
Benzo(k)fluoranthene	<0.014	MX mg/kg dw	11/05/1998	0.0078	kdw	767 1827	SW 8310
Benzo(a)pyrene	0.018	mg/kg dw	11/05/1998	0.011	kdw	767 1827	SW 8310
Benzo(ghi)perylene	<0.092	mg/kg dw	11/05/1998	0.092	kdw	767 1827	SW 8310
Chrysene	<0.07	mg/kg dw	11/06/1998	0.07	keh	767 1831	SW 8310
Dibenzo(a,h)anthracene	<0.01	mg/kg dw	11/05/1998	0.01	kdw	767 1827	SW 8310
Fluoranthene	<0.046	mg/kg dw	11/05/1998	0.046	kdw	767 1827	SW 8310
Fluorene	<0.046	mg/kg dw	11/05/1998	0.046	kdw	767 1827	SW 8310
Indeno(1,2,3-cd)pyrene	<0.020	mg/kg dw	11/05/1998	0.020	kdw	767 1827	SW 8310
Naphthalene	<0.058	mg/kg dw	11/05/1998	0.058	kdw	767 1827	SW 8310
Phenanthrene	<0.092	mg/kg dw	11/05/1998	0.092	kdw	767 1827	SW 8310
Pyrene	<0.046	mg/kg dw	11/05/1998	0.046	kdw	767 1827	SW 8310
Surr: p-Terphenyl	28.5	RM %	11/05/1998	43-125	kdw	767 1827	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	379	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.092	mg/kg dw	11/05/1998	0.092	tls	379 52	SW 8082
PCB-1221	<0.092	mg/kg dw	11/05/1998	0.092	tls	379 52	SW 8082
PCB-1232	<0.092	mg/kg dw	11/05/1998	0.092	tls	379 52	SW 8082
PCB-1242	<0.092	mg/kg dw	11/05/1998	0.092	tls	379 52	SW 8082
PCB-1248	<0.092	mg/kg dw	11/05/1998	0.092	tls	379 52	SW 8082
PCB-1254	<0.092	mg/kg dw	11/05/1998	0.092	tls	379 52	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.  
RM : Low surrogate recovery verified by re-analysis



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499081  
NET Job No.: 98.13604

Sample Description: X-14  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/19/1998  
Time Taken: 09:10  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.092	mg/kg dw	11/05/1998	0.092	tls	379 52	SW 8082
Decachlorobiphenyl (Surr)	79.0	%	11/05/1998	NA	tls	379 52	SW 8082
2,4,5,6-TCMX (Surr)	58.0	%	11/05/1998	NA	tls	379 52	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499082  
NET Job No.: 98.13604

Sample Description: X-1  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 09:45  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.75	units	10/30/1998	0.10	nwg	187	SW 9045B
Solids, Total	40.2	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	24	mg/kg dw	11/06/1998	1.2	mhp	234 672	SW 7060
Barium, ICP	4,730	mg/kg dw	11/05/1998	2.5	kdw	1164 2186	SW 6010B
Cadmium, ICP	4.2	mg/kg dw	11/05/1998	1.2	jtt	1164 2172	SW 6010B
Chromium, ICP	52	mg/kg dw	11/05/1998	5.0	jtt	1164 2157	SW 6010B
Lead, ICP	70	mg/kg dw	11/05/1998	10	jtt	1164 2395	SW 6010B
Mercury, CVAA	0.40	mg/kg dw	11/02/1998	0.10	sep	665 769	SW 7471A
Selenium, GFAA	2.2	mg/kg dw	11/06/1998	0.62	mhp	234 560	SW 7740
Silver, AA	<5.0	mg/kg dw	11/04/1998	5.0	sep	491 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/30/1998		mmv	244	SW 8015M
TPH as Gas	<120	mg/kg dw	11/04/1998	120	out	244 489	SW 8015M
TPH as Diesel	<120	mg/kg dw	11/04/1998	120	out	244 489	SW 8015M
TPH as Oil	<120	mg/kg dw	11/04/1998	120	out	244 489	SW 8015M
N-octacosane (TPH surr)	109.0	%	11/04/1998		out	244 489	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	11/03/1998	0.01	jap	75	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	11/03/1998	0.01	jap	75	SW 8260A
Toluene	<0.01	mg/kg dw	11/03/1998	0.01	jap	75	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	11/03/1998	0.01	jap	75	SW 8260A
Toluene-d8 (Surr)	105.6	%	11/03/1998	74-129	jap	75	SW 8260A
4-Bromofluoromethane (Surr)	102.0	%	11/03/1998	70-130	jap	75	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/30/1998		btl	767	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499082  
NET Job No.: 98.13604

Sample Description: X-1  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 09:45  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.050	mg/kg dw	11/05/1998	0.050	kdw	767 1827	SW 8310
Acenaphthylene	<0.050	mg/kg dw	11/05/1998	0.050	kdw	767 1827	SW 8310
Anthracene	<0.10	mg/kg dw	11/05/1998	0.10	kdw	767 1827	SW 8310
Benzo(a)anthracene	<0.0453	MX mg/kg dw	11/05/1998	0.0065	kdw	767 1827	SW 8310
Benzo(b)fluoranthene	0.02	mg/kg dw	11/05/1998	0.0090	kdw	767 1827	SW 8310
Benzo(k)fluoranthene	<0.0649	MX mg/kg dw	11/05/1998	0.0085	kdw	767 1827	SW 8310
Benzo(a)pyrene	<0.020	mg/kg dw	11/05/1998	0.011	kdw	767 1827	SW 8310
Benzo(ghi)perylene	<0.10	mg/kg dw	11/05/1998	0.10	kdw	767 1827	SW 8310
Chrysene	<0.07	mg/kg dw	11/06/1998	0.07	keh	767 1831	SW 8310
Dibenzo(a,h)anthracene	<0.01	mg/kg dw	11/05/1998	0.01	kdw	767 1827	SW 8310
Fluoranthene	<0.050	mg/kg dw	11/05/1998	0.050	kdw	767 1827	SW 8310
Fluorene	<0.18	MX mg/kg dw	11/05/1998	0.050	kdw	767 1827	SW 8310
Indeno(1,2,3-cd)pyrene	<0.021	mg/kg dw	11/05/1998	0.021	kdw	767 1827	SW 8310
Naphthalene	0.15	mg/kg dw	11/05/1998	0.062	kdw	767 1827	SW 8310
Phenanthrene	<0.10	mg/kg dw	11/05/1998	0.10	kdw	767 1827	SW 8310
Pyrene	<0.050	mg/kg dw	11/05/1998	0.050	kdw	767 1827	SW 8310
Surr: p-Terphenyl	32.1	RM %	11/05/1998	43-125	kdw	767 1827	SW 8310
PCB Non-Aqueous Extraction COMPLETE 11/02/1998 COMPLETE wna 380 SW 3540C							
PCB'S NON-AQUEOUS							
PCB-1016	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1221	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1232	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1242	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1248	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1254	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.  
RM : Low surrogate recovery verified by re-analysis.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499082

NET Job No.: 98.13604

Sample Description: X-1  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 09:45  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
Decachlorobiphenyl (Surr)	84.0	%	11/05/1998	NA	tls	380 52	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	11/05/1998	NA	tls	380 52	SW 8082





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499083  
NET Job No.: 98.13604

Sample Description: X-2  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 09:35  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.05	units	10/30/1998	0.10	nwg	188	SW 90458
Solids, Total	81.0	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	2.2	mg/kg dw	11/06/1998	0.62	mhp	234 672	SW 7060
Barium, ICP	173	mg/kg dw	11/05/1998	1.2	kdw	1164 2186	SW 60108
Cadmium, ICP	<0.62	mg/kg dw	11/05/1998	0.62	jtt	1164 2172	SW 60108
Chromium, ICP	3.0	mg/kg dw	11/05/1998	2.5	jtt	1164 2157	SW 60108
Lead, ICP	<4.9	mg/kg dw	11/05/1998	4.9	jtt	1164 2395	SW 60108
Mercury, CVAA	<0.049	mg/kg dw	11/02/1998	0.049	sep	665 769	SW 7471A
Selenium, GFAA	<0.31	mg/kg dw	11/06/1998	0.31	mhp	234 560	SW 7740
Silver, AA	3.7	mg/kg dw	11/02/1998	2.5	sep	492 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		11/02/1998		wna	245	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<62	mg/kg dw	11/04/1998	62	out	245 491	SW 8015M
TPH as Diesel	<62	mg/kg dw	11/04/1998	62	out	245 491	SW 8015M
TPH as Oil	<62	mg/kg dw	11/04/1998	62	out	245 491	SW 8015M
N-octacosane (TPH surr)	85.0	%	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/03/1998	0.006	jap	75	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/03/1998	0.006	jap	75	SW 8260A
Toluene	<0.006	mg/kg dw	11/03/1998	0.006	jap	75	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/03/1998	0.006	jap	75	SW 8260A
Toluene-d8 (Surr)	100.6	%	11/03/1998	74-129	jap	75	SW 8260A
4-Bromofluoromethane (Surr)	102.8	%	11/03/1998	70-130	jap	75	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/30/1998		btl	767	SW 3540C



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499083

NET Job No.: 98.13604

Sample Description: X-2  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 09:35  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.025	mg/kg dw	11/05/1998	0.025	keh	767 1831	SW 8310
Acenaphthylene	<0.025	mg/kg dw	11/05/1998	0.025	keh	767 1831	SW 8310
Anthracene	<0.049	mg/kg dw	11/05/1998	0.049	keh	767 1831	SW 8310
Benzo(a)anthracene	<0.012	MX mg/kg dw	11/05/1998	0.0032	keh	767 1831	SW 8310
Benzo(b)fluoranthene	0.0046	mg/kg dw	11/05/1998	0.0044	keh	767 1831	SW 8310
Benzo(k)fluoranthene	<0.0065	MX mg/kg dw	11/05/1998	0.0042	keh	767 1831	SW 8310
Benzo(a)pyrene	<0.0057	mg/kg dw	11/05/1998	0.0057	keh	767 1831	SW 8310
Benzo(ghi)perylene	<0.049	mg/kg dw	11/05/1998	0.049	keh	767 1831	SW 8310
Chrysene	<0.04	mg/kg dw	11/06/1998	0.04	keh	767 1832	SW 8310
Dibenzo(a,h)anthracene	<0.007	mg/kg dw	11/05/1998	0.007	keh	767 1831	SW 8310
Fluoranthene	<0.025	mg/kg dw	11/05/1998	0.025	keh	767 1831	SW 8310
Fluorene	<0.054	MX mg/kg dw	11/05/1998	0.025	keh	767 1831	SW 8310
Indeno(1,2,3-cd)pyrene	<0.011	mg/kg dw	11/05/1998	0.011	keh	767 1831	SW 8310
Naphthalene	<0.031	mg/kg dw	11/05/1998	0.031	keh	767 1831	SW 8310
Phenanthrene	<0.049	mg/kg dw	11/05/1998	0.049	keh	767 1831	SW 8310
Pyrene	<0.025	mg/kg dw	11/05/1998	0.025	keh	767 1831	SW 8310
Surr: p-Terphenyl	58.1	%	11/05/1998	43-125	keh	767 1831	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	380	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.049	mg/kg dw	11/05/1998	0.049	tls	380 52	SW 8082
PCB-1221	<0.049	mg/kg dw	11/05/1998	0.049	tls	380 52	SW 8082
PCB-1232	<0.049	mg/kg dw	11/05/1998	0.049	tls	380 52	SW 8082
PCB-1242	<0.049	mg/kg dw	11/05/1998	0.049	tls	380 52	SW 8082
PCB-1248	<0.049	mg/kg dw	11/05/1998	0.049	tls	380 52	SW 8082
PCB-1254	<0.049	mg/kg dw	11/05/1998	0.049	tls	380 52	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499083  
NET Job No.: 98.13604

Sample Description: X-2  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 09:35  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.049	mg/kg dw	11/05/1998	0.049	tls	380 52	SW 8082
Decachlorobiphenyl (Surr)	84.0	%	11/05/1998	NA	tls	380 52	SW 8082
2,4,5,6-TCMX (Surr)	77.0	%	11/05/1998	NA	tls	380 52	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499084  
NET Job No.: 98.13604

Sample Description: X-6  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.55	units	10/30/1998	0.10	nwg	188	SW 9045B
Solids, Total	66.8	%	11/02/1998	0.1	efw	2515	SM 2540
Arsenic, GFAA	3.4	mg/kg dw	11/07/1998	0.75	mhp	234 673	SW 7060
Barium, ICP	195	mg/kg dw	11/05/1998	1.5	kdw	1164 2186	SW 6010B
Cadmium, ICP	<0.75	mg/kg dw	11/05/1998	0.75	jtt	1164 2172	SW 6010B
Chromium, ICP	11	mg/kg dw	11/05/1998	3.0	jtt	1164 2157	SW 6010B
Lead, ICP	21	mg/kg dw	11/05/1998	6.0	jtt	1164 2395	SW 6010B
Mercury, CVAAs	0.082	mg/kg dw	11/02/1998	0.060	sep	665 769	SW 7471A
Selenium, GFAA	<0.37	mg/kg dw	11/06/1998	0.37	mhp	234 560	SW 7740
Silver, AA	3.0	mg/kg dw	11/02/1998	3.0	sep	492 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		11/02/1998		wna	245	SW 8015M
TPH as Gas	<75	mg/kg dw	11/04/1998	75	out	245 491	SW 8015M
TPH as Diesel	<75	mg/kg dw	11/04/1998	75	out	245 491	SW 8015M
TPH as Oil	<75	mg/kg dw	11/04/1998	75	out	245 491	SW 8015M
N-octacosane (TPH surr)	107.0	%	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	11/03/1998	0.007	jap	75	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	11/03/1998	0.007	jap	75	SW 8260A
Toluene	<0.007	mg/kg dw	11/03/1998	0.007	jap	75	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	11/03/1998	0.007	jap	75	SW 8260A
Toluene-d8 (Surr)	99.8	%	11/03/1998	74-129	jap	75	SW 8260A
4-Bromofluoromethane (Surr)	106.8	%	11/03/1998	70-130	jap	75	SW 8260A
Prep, 8310 PNAAs NON-AQUEOUS	extracted		10/30/1998		btl	767	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499084  
NET Job No.: 98.13604

Sample Description: X-6  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	0.033	mg/kg dw	11/05/1998	0.030	keh	767 1831	SW 8310
Acenaphthylene	<0.030	mg/kg dw	11/05/1998	0.030	keh	767 1831	SW 8310
Anthracene	0.084	mg/kg dw	11/05/1998	0.060	keh	767 1831	SW 8310
Benzo(a)anthracene	0.25	mg/kg dw	11/05/1998	0.0039	keh	767 1831	SW 8310
Benzo(b)fluoranthene	0.16	mg/kg dw	11/05/1998	0.0054	keh	767 1831	SW 8310
Benzo(k)fluoranthene	0.11	mg/kg dw	11/05/1998	0.0051	keh	767 1831	SW 8310
Benzo(a)pyrene	0.19	mg/kg dw	11/05/1998	0.0069	keh	767 1831	SW 8310
Benzo(ghi)perylene	0.14	mg/kg dw	11/05/1998	0.060	keh	767 1831	SW 8310
Chrysene	0.25	mg/kg dw	11/05/1998	0.04	keh	767 1831	SW 8310
Dibenzo(a,h)anthracene	0.021	mg/kg dw	11/05/1998	0.009	keh	767 1831	SW 8310
Fluoranthene	0.52	mg/kg dw	11/05/1998	0.030	keh	767 1831	SW 8310
Fluorene	0.049	mg/kg dw	11/05/1998	0.030	keh	767 1831	SW 8310
Indeno(1,2,3-cd)pyrene	0.10	mg/kg dw	11/05/1998	0.013	keh	767 1831	SW 8310
Naphthalene	<0.037	mg/kg dw	11/05/1998	0.037	keh	767 1831	SW 8310
Phenanthrene	0.24	mg/kg dw	11/05/1998	0.060	keh	767 1831	SW 8310
Pyrene	0.49	mg/kg dw	11/05/1998	0.030	keh	767 1831	SW 8310
Surr: p-Terphenyl	Masked		11/05/1998	43-125	keh	767 1831	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	380	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.060	mg/kg dw	11/05/1998	0.060	tls	380 52	SW 8082
PCB-1221	<0.060	mg/kg dw	11/05/1998	0.060	tls	380 52	SW 8082
PCB-1232	<0.060	mg/kg dw	11/05/1998	0.060	tls	380 52	SW 8082
PCB-1242	<0.060	mg/kg dw	11/05/1998	0.060	tls	380 52	SW 8082
PCB-1248	<0.060	mg/kg dw	11/05/1998	0.060	tls	380 52	SW 8082
PCB-1254	<0.060	mg/kg dw	11/05/1998	0.060	tls	380 52	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499084

NET Job No.: 98.13604

Sample Description: X-6  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.060	mg/kg dw	11/05/1998	0.060	tls	380 52	SW 8082
Decachlorobiphenyl (Surr)	95.0	%	11/05/1998	NA	tls	380 52	SW 8082
2,4,5,6-TCMX (Surr)	81.0	%	11/05/1998	NA	tls	380 52	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499085  
NET Job No.: 98.13604

Sample Description: X-7  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:25  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.32	units	10/30/1998	0.10	nwg	188	SW 90458
Solids, Total	39.6	%	11/02/1998	0.1	efw	2515	SM 2540
Arsenic, GFAA	13	mg/kg dw	11/06/1998	1.3	mhp	234 672	SW 7060
Barium, ICP	2,780	mg/kg dw	11/05/1998	2.5	kdw	1164 2186	SW 60108
Cadmium, ICP	2.1	mg/kg dw	11/05/1998	1.3	jrt	1164 2172	SW 60108
Chromium, ICP	43	mg/kg dw	11/05/1998	5.1	jtt	1164 2157	SW 60108
Lead, ICP	130	mg/kg dw	11/05/1998	10	jtt	1164 2395	SW 60108
Mercury, CVAA	0.35	mg/kg dw	11/02/1998	0.10	sep	665 769	SW 7471A
Selenium, GFAA	0.73	mg/kg dw	11/06/1998	0.63	mhp	234 560	SW 7740
Silver, AA	<5.1	mg/kg dw	11/02/1998	5.1	sep	492 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		11/02/1998		wna	245	SW 8015M
TPH as Gas	<130	mg/kg dw	11/04/1998	130	out	245 491	SW 8015M
TPH as Diesel	<130	mg/kg dw	11/04/1998	130	out	245 491	SW 8015M
TPH as Oil	2,750	PT mg/kg dw	11/04/1998	130	out	245 491	SW 8015M
N-octacosane (TPH surr)	103.0	%	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	11/03/1998	0.01	jap	75	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	11/03/1998	0.01	jap	75	SW 8260A
Toluene	<0.01	mg/kg dw	11/03/1998	0.01	jap	75	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	11/03/1998	0.01	jap	75	SW 8260A
Toluene-d8 (Surr)	106.4	%	11/03/1998	74-129	jap	75	SW 8260A
4-Bromofluoromethane (Surr)	114.2	%	11/03/1998	70-130	jap	75	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/30/1998		btl	767	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

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ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499085  
NET Job No.: 98.13604

Sample Description: X-7  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:25  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.051	mg/kg dw	11/05/1998	0.051	keh	767 1831	SW 8310
Acenaphthylene	<0.051	mg/kg dw	11/05/1998	0.051	keh	767 1831	SW 8310
Anthracene	<0.10	mg/kg dw	11/05/1998	0.10	keh	767 1831	SW 8310
Benzo(a)anthracene	0.35	mg/kg dw	11/05/1998	0.0066	keh	767 1831	SW 8310
Benzo(b)fluoranthene	0.48	mg/kg dw	11/05/1998	0.0091	keh	767 1831	SW 8310
Benzo(k)fluoranthene	0.30	mg/kg dw	11/05/1998	0.0086	keh	767 1831	SW 8310
Benzo(a)pyrene	0.51	mg/kg dw	11/05/1998	0.012	keh	767 1831	SW 8310
Benzo(ghi)perylene	0.51	mg/kg dw	11/05/1998	0.10	keh	767 1831	SW 8310
Chrysene	0.45	mg/kg dw	11/05/1998	0.08	keh	767 1831	SW 8310
Dibenzo(a,h)anthracene	0.061	mg/kg dw	11/05/1998	0.02	keh	767 1831	SW 8310
Fluoranthene	1.0	mg/kg dw	11/05/1998	0.051	keh	767 1831	SW 8310
Fluorene	<0.13	MX mg/kg dw	11/05/1998	0.051	keh	767 1831	SW 8310
Indeno(1,2,3-cd)pyrene	0.40	mg/kg dw	11/05/1998	0.022	keh	767 1831	SW 8310
Naphthalene	<0.063	mg/kg dw	11/05/1998	0.063	keh	767 1831	SW 8310
Phenanthrene	0.30	mg/kg dw	11/05/1998	0.10	keh	767 1831	SW 8310
Pyrene	0.83	mg/kg dw	11/05/1998	0.051	keh	767 1831	SW 8310
Surr: p-Terphenyl	Masked		11/05/1998	43-125	keh	767 1831	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	380	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1221	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1232	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1242	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1248	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
PCB-1254	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499085  
NET Job No.: 98.13604

Sample Description: X-7  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:25  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.10	mg/kg dw	11/05/1998	0.10	tls	380 52	SW 8082
Decachlorobiphenyl (Surr)	87.0	%	11/05/1998	NA	tls	380 52	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	11/05/1998	NA	tls	380 52	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499086  
NET Job No.: 98.13604

Sample Description: X-13  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.71	units	10/30/1998	0.10	nwg	188	SW 9045B
Solids, Total	76.2	%	11/02/1998	0.1	efw	2515	SM 2540
Arsenic, GFAA	3.0	mg/kg dw	11/06/1998	0.66	mhp	234 672	SW 7060
Barium, ICP	669	mg/kg dw	11/05/1998	1.3	kdw	1164 2186	SW 6010B
Cadmium, ICP	1.3	mg/kg dw	11/05/1998	0.66	jtt	1164 2172	SW 6010B
Chromium, ICP	22	mg/kg dw	11/05/1998	2.6	jtt	1164 2157	SW 6010B
Lead, ICP	262	mg/kg dw	11/05/1998	5.2	jtt	1164 2395	SW 6010B
Mercury, CVAAs	0.063	mg/kg dw	11/02/1998	0.052	sep	665 769	SW 7471A
Selenium, GFAA	<0.33	mg/kg dw	11/06/1998	0.33	mhp	234 560	SW 7740
Silver, AA	<2.6	mg/kg dw	11/02/1998	2.6	sep	492 569	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		11/02/1998		wna	245	SW 8015M
TPH as Gas	<66	mg/kg dw	11/04/1998	66	out	245 491	SW 8015M
TPH as Diesel	<66	mg/kg dw	11/04/1998	66	out	245 491	SW 8015M
TPH as Oil	<66	mg/kg dw	11/04/1998	66	out	245 491	SW 8015M
N-octacosane (TPH surr)	75.0	%	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	11/03/1998	0.007	jap	75	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	11/03/1998	0.007	jap	75	SW 8260A
Toluene	<0.007	mg/kg dw	11/03/1998	0.007	jap	75	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	11/03/1998	0.007	jap	75	SW 8260A
Toluene-d8 (Surr)	99.0	%	11/03/1998	74-129	jap	75	SW 8260A
4-Bromofluoromethane (Surr)	101.8	%	11/03/1998	70-130	jap	75	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/30/1998		btl	767	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 499086  
NET Job No.: 98.13604

Sample Description: X-13  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
				PQL		Prep/Run	
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.026	mg/kg dw	11/06/1998	0.026	keh	767 1830	SW 8310
Acenaphthylene	<0.026	mg/kg dw	11/06/1998	0.026	keh	767 1830	SW 8310
Anthracene	<0.052	mg/kg dw	11/06/1998	0.052	keh	767 1830	SW 8310
Benzo(a)anthracene	<0.058	MX mg/kg dw	11/06/1998	0.0034	keh	767 1830	SW 8310
Benzo(b)fluoranthene	0.047	mg/kg dw	11/06/1998	0.0047	keh	767 1830	SW 8310
Benzo(k)fluoranthene	0.050	mg/kg dw	11/06/1998	0.0045	keh	767 1830	SW 8310
Benzo(a)pyrene	0.052	mg/kg dw	11/06/1998	0.0060	keh	767 1830	SW 8310
Benzo(ghi)perylene	<0.052	mg/kg dw	11/06/1998	0.052	keh	767 1830	SW 8310
Chrysene	0.047	mg/kg dw	11/06/1998	0.04	keh	767 1832	SW 8310
Dibenzo(a,h)anthracene	<0.008	mg/kg dw	11/06/1998	0.008	keh	767 1830	SW 8310
Fluoranthene	0.12	mg/kg dw	11/06/1998	0.026	keh	767 1830	SW 8310
Fluorene	<0.026	mg/kg dw	11/06/1998	0.026	keh	767 1830	SW 8310
Indeno(1,2,3-cd)pyrene	0.042	mg/kg dw	11/06/1998	0.011	keh	767 1830	SW 8310
Naphthalene	0.037	mg/kg dw	11/06/1998	0.033	keh	767 1830	SW 8310
Phenanthrene	0.063	mg/kg dw	11/06/1998	0.052	keh	767 1830	SW 8310
Pyrene	0.11	mg/kg dw	11/06/1998	0.026	keh	767 1830	SW 8310
Surr: p-Terphenyl	107.0	%	11/06/1998	43-125	keh	767 1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	380	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.052	mg/kg dw	11/05/1998	0.052	tls	380 52	SW 8082
PCB-1221	<0.052	mg/kg dw	11/05/1998	0.052	tls	380 52	SW 8082
PCB-1232	<0.052	mg/kg dw	11/05/1998	0.052	tls	380 52	SW 8082
PCB-1242	<0.052	mg/kg dw	11/05/1998	0.052	tls	380 52	SW 8082
PCB-1248	<0.052	mg/kg dw	11/05/1998	0.052	tls	380 52	SW 8082
PCB-1254	<0.052	mg/kg dw	11/05/1998	0.052	tls	380 52	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 499086

NET Job No.: 98.13604

Sample Description: X-13  
ComEd-Will County Station; 1801-023-710

Date Taken: 10/20/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/21/1998  
Time Received: 08:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	1.0	mg/kg dw	11/05/1998	0.052	tls	380 52	SW 8082
Decachlorobiphenyl (Surr)	92.0	%	11/05/1998	NA	tls	380 52	SW 8082
2,4,5,6-TCMX (Surr)	85.0	%	11/05/1998	NA	tls	380 52	SW 8082



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
pH, Non-Aqueous	187	7.00	7.00	100.0
pH, Non-Aqueous	188	7.00	7.00	100.0
Arsenic, GFAA	671	0.0250	0.0262	104.8
Arsenic, GFAA	672	0.0250	0.0256	102.4
Arsenic, GFAA	673	0.0250	0.0242	96.8
Barium, ICP	2184	2.00	2.00	100.0
Barium, ICP	2186	2.00	1.98	99.0
Cadmium, ICP	2172	1.00	0.997	99.7
Chromium, ICP	2157	2.00	1.90	95.0
Lead, ICP	2395	2.00	1.98	99.0
Selenium, GFAA	559	0.0500	0.0482	96.4
Selenium, GFAA	560	0.0500	0.0533	106.6
Silver, AA	569	0.50	0.489	97.8
Silver, AA	571	0.50	0.497	99.4
UST VOLATILES NON-AQUEOUS				
Benzene	69	50.0	48.8	97.6
Ethylbenzene	69	50.0	48.3	96.6
Toluene	69	50.0	49.5	99.0
Xylenes, Total	69	150	146	97.3
UST VOLATILES NON-AQUEOUS				
Benzene	73	50.0	51.5	103.0
Ethylbenzene	73	50.0	50.5	101.0
Toluene	73	50.0	50.8	101.6
Xylenes, Total	73	150	151	100.7
UST VOLATILES NON-AQUEOUS				
Benzene	75	50.0	51.7	103.4
Ethylbenzene	75	50.0	52.0	104.0
Toluene	75	50.0	51.8	103.6
Xylenes, Total	75	150	155	103.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1827	5000	4,517	90.3
Acenaphthylene	1827	5000	5,072	101.4
Anthracene	1827	5000	4,791	95.8
Benzo(a)anthracene	1827	5000	5,038	100.8

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo(b)fluoranthene	1827	5000	5,066	101.3
Benzo(k)fluoranthene	1827	5000	4,905	98.1
Benzo(a)pyrene	1827	5000	4,466	89.3
Benzo(ghi)perylene	1827	5000	4,515	90.3
Chrysene	1827	5000	5,156	103.1
Dibenzo(a,h)anthracene	1827	5000	4,987	99.7
Fluoranthene	1827	5000	4,877	97.5
Fluorene	1827	5000	4,926	98.5
Indeno(1,2,3-cd)pyrene	1827	5000	4,483	89.7
Naphthalene	1827	5000	4,744	94.9
Phenanthrene	1827	5000	4,717	94.3
Pyrene	1827	5000	4,847	96.9
Surr: p-Terphenyl	1827	5000	4,857	97.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1831	5000	4,574	91.5
Acenaphthylene	1831	5000	5,090	101.8
Anthracene	1831	5000	5,101	102.0
Benzo(a)anthracene	1831	5000	5,004	100.1
Benzo(b)fluoranthene	1831	5000	4,779	95.6
Benzo(k)fluoranthene	1831	5000	4,823	96.5
Benzo(a)pyrene	1831	5000	4,945	98.9
Benzo(ghi)perylene	1831	5000	4,863	97.3
Chrysene	1831	5000	5,048	101.0
Dibenzo(a,h)anthracene	1831	5000	4,940	98.8
Fluoranthene	1831	5000	4,852	97.0
Fluorene	1831	5000	4,886	97.7
Indeno(1,2,3-cd)pyrene	1831	5000	4,721	94.4
Naphthalene	1831	5000	4,667	93.3
Phenanthrene	1831	5000	4,660	93.2
Pyrene	1831	5000	4,989	99.8
Surr: p-Terphenyl	1831	5000	4,868	97.4
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1831	5000	4,555	91.1
Acenaphthylene	1831	5000	5,103	102.1

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Anthracene	1831	5000	5,041	100.8
Benzo(a)anthracene	1831	5000	4,894	97.9
Benzo(b)fluoranthene	1831	5000	5,098	102.0
Benzo(k)fluoranthene	1831	5000	4,766	95.3
Benzo(a)pyrene	1831	5000	4,957	99.1
Benzo(ghi)perylene	1831	5000	4,794	95.9
Chrysene	1831	5000	5,090	101.8
Dibenzo(a,h)anthracene	1831	5000	5,014	100.3
Fluoranthene	1831	5000	4,887	97.7
Fluorene	1831	5000	4,875	97.5
Indeno(1,2,3-cd)pyrene	1831	5000	4,702	94.0
Naphthalene	1831	5000	4,636	92.7
Phenanthrene	1831	5000	4,670	93.4
Pyrene	1831	5000	4,996	99.9
Surr: p-Terphenyl	1831	5000	4,765	95.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1831	5000	4,638	92.8
Acenaphthylene	1831	5000	5,045	100.9
Anthracene	1831	5000	5,051	101.0
Benzo(a)anthracene	1831	5000	4,910	98.2
Benzo(b)fluoranthene	1831	5000	4,793	95.9
Benzo(k)fluoranthene	1831	5000	4,946	98.9
Benzo(a)pyrene	1831	5000	4,860	97.2
Benzo(ghi)perylene	1831	5000	4,890	97.8
Chrysene	1831	5000	4,976	99.5
Dibenzo(a,h)anthracene	1831	5000	4,951	99.0
Fluoranthene	1831	5000	4,939	98.8
Fluorene	1831	5000	4,871	97.4
Indeno(1,2,3-cd)pyrene	1831	5000	4,557	91.1
Naphthalene	1831	5000	4,700	94.0
Phenanthrene	1831	5000	4,668	93.4
Pyrene	1831	5000	5,074	101.5
Surr: p-Terphenyl	1831	5000	4,803	96.1
PNA CMPDS - 8310 NONAQUEOUS				

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Chrysene	1832	5000	4,987	99.7
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1832	5000	4,972	99.4
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1832	5000	4,987	99.7
PNA CMPDS - 8310 NONAQUEOUS				
PCB'S NON-AQUEOUS				
PCB-1016	52	500	473	94.6
PCB-1260	52	500	483	96.6
PCB'S NON-AQUEOUS				
PCB-1016	52	500	463	92.6
PCB-1260	52	500	462	92.4
PCB'S NON-AQUEOUS				
PCB-1016	52	500	444	88.8
PCB-1260	52	500	468	93.6
PCB'S NON-AQUEOUS				
PCB'S NON-AQUEOUS				
PCB-1016	53	500	434	86.8
PCB-1260	53	500	442	88.4
PCB'S NON-AQUEOUS				
PCB-1016	53	500	447	89.4
PCB-1260	53	500	460	92.0

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	233	671	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	237	671	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	234	672	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1163	2184	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1164	2186	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1163	2172	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1164	2172	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1163	2157	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1164	2157	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1163	2395	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1164	2395	<4.0	mg/Kg	4.0	SW 6010B
Selenium, GFAA	233	558	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	234	559	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	237	559	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	490	569	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	492	569	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	491	571	<2.0	mg/Kg	2.0	SW 7760
TPH MODIFIED 8015						SW 8015M
TPH as Gas	244	488	<50	mg/Kg	50	SW 8015M
TPH as Diesel	244	488	<50	mg/Kg	50	SW 8015M
TPH as Oil	244	488	<50	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	244	488	88.0	%		SW 8015M
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		69	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		69	<0.005	mg/Kg	0.005	SW 8260A
Toluene		69	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		69	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		69	87.0	%	74-134	SW 8260A
Toluene-d8 (Surr)		69	90.0	%	90-134	SW 8260A

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
4-Bromofluoromethane (Surr)		69	97.8	%	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		75	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		75	<0.005	mg/Kg	0.005	SW 8260A
Toluene		75	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		75	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		75	90.6	%	81-129	SW 8260A
Toluene-d8 (Surr)		75	97.2	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		75	103.0	%	70-130	SW 8260A
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	766	1826	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	766	1826	<0.020	mg/Kg	0.020	SW 8310
Anthracene	766	1826	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	766	1826	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	766	1826	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	766	1826	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	766	1826	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	766	1826	<0.040	mg/Kg	0.040	SW 8310
Chrysene	766	1826	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	766	1826	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	766	1826	<0.020	mg/Kg	0.020	SW 8310
Fluorene	766	1826	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	766	1826	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	766	1826	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	766	1826	<0.040	mg/Kg	0.040	SW 8310
Pyrene	766	1826	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	766	1826	93.4	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	767	1826	<0.020	mg/Kg	0.020	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Acenaphthylene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Anthracene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	767	1826	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	767	1826	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	767	1826	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	767	1826	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Chrysene	767	1826	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	767	1826	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Fluorene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	767	1826	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	767	1826	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Pyrene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	767	1826	86.2	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Anthracene	767	1830	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	767	1830	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	767	1830	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	767	1830	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	767	1830	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	767	1830	<0.040	mg/Kg	0.040	SW 8310
Chrysene	767	1830	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	767	1830	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Fluorene	767	1830	<0.020	mg/Kg	0.020	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Indeno(1,2,3-cd)pyrene	767	1830	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	767	1830	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	767	1830	<0.040	mg/Kg	0.040	SW 8310
Pyrene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	767	1830	90.3	%	43-125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	379	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	379	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	379	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	379	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	379	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	379	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	379	53	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	379	53	86.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	379	53	80.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	380	52	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	380	52	80.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	380	52	78.0	%	NA	SW 8082

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	233	671	0.500	0.450	90.0
Arsenic, GFAA	237	671	0.500	0.465	93.0
Arsenic, GFAA	234	672	0.0100	0.0098	98.0
Barium, ICP	1163	2184	5.00	4.30	86.0
Barium, ICP	1164	2186	5.00	5.31	106.2
Cadmium, ICP	1163	2172	2.50	2.13	85.2
Cadmium, ICP	1164	2172	2.50	2.69	107.6
Chromium, ICP	1163	2157	5.00	3.60	72.0
Chromium, ICP	1164	2157	5.00	4.75	95.0
Lead, ICP	1163	2395	5.00	3.70	74.0
Lead, ICP	1164	2395	5.00	5.05	101.0
Selenium, GFAA	233	558	0.0100	0.0082	82.0
Selenium, GFAA	234	559	0.50	0.50	100.0
Selenium, GFAA	237	559	0.50	0.43	86.0
Silver, AA	490	569	0.10	0.115	115.0
Silver, AA	492	569	0.10	0.084	84.0
Silver, AA	491	571	0.10	0.101	101.0
TPH MODIFIED 8015					
TPH as Gas	244	488	250	176	70.4
TPH as Diesel	244	488	250	203	81.2
TPH as Oil	244	488	250	154	61.6
N-octacosane (TPH surr)	244	488	100	74	74.0
TPH MODIFIED 8015					
TPH as Gas	245	486	250	225	90.0
TPH as Diesel	245	486	250	216	86.4
TPH as Oil	245	486	250	201	80.4
N-octacosane (TPH surr)	245	486	100	117	117.0
UST VOLATILES NON-AQUEOUS					
Benzene		69	20.0	20.8	104.0
Ethylbenzene		69	20.0	20.9	104.5
Toluene		69	20.0	19.2	96.0



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Xylenes, Total		69	60.0	62	103.3
Dibromofluoromethane (Surr)		69	50.0	46.2	92.4
Toluene-d8 (Surr)		69	50.0	47.2	94.4
4-Bromofluoromethane (Surr)		69	50.0	49.5	99.0
UST VOLATILES NON-AQUEOUS					
Benzene		73	20.0	21.2	106.0
Ethylbenzene		73	20.0	20.7	103.5
Toluene		73	20.0	19.9	99.5
Xylenes, Total		73	60.0	60.8	101.3
Dibromofluoromethane (Surr)		73	50.0	48.3	96.6
Toluene-d8 (Surr)		73	50.0	52.6	105.2
4-Bromofluoromethane (Surr)		73	50.0	53.4	106.8
UST VOLATILES NON-AQUEOUS					
Benzene		75	20.0	19.5	97.5
Ethylbenzene		75	20.0	20.1	100.5
Toluene		75	20.0	18.9	94.5
Xylenes, Total		75	60.0	58.7	97.8
Dibromofluoromethane (Surr)		75	50.0	45.5	91.0
Toluene-d8 (Surr)		75	50.0	49.3	98.6
4-Bromofluoromethane (Surr)		75	50.0	50.7	101.4
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	766	1826	0.033	0.026	78.8
Acenaphthylene	766	1826	0.033	0.028	84.8
Anthracene	766	1826	0.033	0.031	93.9
Benzo(a)anthracene	766	1826	0.033	0.032	97.0
Benzo(b)fluoranthene	766	1826	0.033	0.031	93.9
Benzo(k)fluoranthene	766	1826	0.033	0.031	93.9
Benzo(a)pyrene	766	1826	0.033	0.031	93.9
Benzo(ghi)perylene	766	1826	0.033	0.031	93.9
Chrysene	766	1826	0.033	0.033	100.0
Dibenzo(a,h)anthracene	766	1826	0.033	0.031	93.9



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Fluoranthene	766	1826	0.033	0.032	97.0
Fluorene	766	1826	0.033	0.031	93.9
Indeno(1,2,3-cd)pyrene	766	1826	0.033	0.032	97.0
Naphthalene	766	1826	0.033	0.024	72.7
Phenanthrene	766	1826	0.033	0.032	97.0
Pyrene	766	1826	0.033	0.033	100.0
Surr: p-Terphenyl	766	1826	2000	1,897	94.8
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	767	1828	0.033	0.027	81.8
Acenaphthylene	767	1828	0.033	0.028	84.8
Anthracene	767	1828	0.033	0.029	87.9
Benzo(a)anthracene	767	1828	0.033	0.027	81.8
Benzo(b)fluoranthene	767	1828	0.033	0.027	81.8
Benzo(k)fluoranthene	767	1828	0.033	0.028	84.8
Benzo(a)pyrene	767	1828	0.033	0.027	81.8
Benzo(ghi)perylene	767	1828	0.033	0.030	90.9
Chrysene	767	1828	0.033	0.029	87.9
Dibenzo(a,h)anthracene	767	1828	0.033	0.028	84.8
Fluoranthene	767	1828	0.033	0.029	87.9
Fluorene	767	1828	0.033	0.031	93.9
Indeno(1,2,3-cd)pyrene	767	1828	0.033	0.028	84.8
Naphthalene	767	1828	0.033	0.031	93.9
Phenanthrene	767	1828	0.033	0.029	87.9
Pyrene	767	1828	0.033	0.033	100.0
Surr: p-Terphenyl	767	1828	2000	1,613	80.7
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	767	1830	0.033	0.032	97.0
Acenaphthylene	767	1830	0.033	0.030	90.9
Anthracene	767	1830	0.033	0.030	90.9
Benzo(a)anthracene	767	1830	0.033	0.031	93.9
Benzo(b)fluoranthene	767	1830	0.033	0.033	100.0



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Benzo(k)fluoranthene	767	1830	0.033	0.029	87.9
Benzo(a)pyrene	767	1830	0.033	0.027	81.8
Benzo(ghi)perylene	767	1830	0.033	0.029	87.9
Chrysene	767	1830	0.033	0.031	93.9
Dibenzo(a,h)anthracene	767	1830	0.033	0.029	87.9
Fluoranthene	767	1830	0.033	0.032	97.0
Fluorene	767	1830	0.033	0.029	87.9
Indeno(1,2,3-cd)pyrene	767	1830	0.033	0.030	90.9
Naphthalene	767	1830	0.033	0.023	69.7
Phenanthrene	767	1830	0.033	0.030	90.9
Pyrene	767	1830	0.033	0.031	93.9
Surr: p-Terphenyl	767	1830	2000	1,705	85.3
PCB'S NON-AQUEOUS					
PCB-1016	379	53	500	422	84.4
PCB-1260	379	53	500	436	87.2
Decachlorobiphenyl (Surr)	379	53	100	85	85.0
2,4,5,6-TCMX (Surr)	379	53	100	76	76.0
PCB'S NON-AQUEOUS					
PCB-1016	380	52	500	448	89.6
PCB-1260	380	52	500	452	90.4
Decachlorobiphenyl (Surr)	380	52	100	86	86.0
2,4,5,6-TCMX (Surr)	380	52	100	80	80.0





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## QUALITY CONTROL REPORT

### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix					MSD				MS/MSD RPD
	Batch	Batch	Spike	Sample	Spike	Percent	MSD	Spike	Percent			
	Number	Number	Result	Result	Amount	Recovery	Result	Amount	Recovery	Units	Units	
UST VOLATILES NON-AQUEOUS												
Benzene		69	21.1	<0.005	20.0	mg/kg	105.5	18.0	20.0	mg/kg	90.0	15.8
Ethylbenzene		69	21.3	<0.005	20.0	mg/kg	106.5	18.4	20.0	mg/kg	92.0	14.5
Toluene		69	21.1	<0.005	20.0	mg/kg	105.5	18.0	20.0	mg/kg	90.0	15.8
Xylenes, Total		69	64.0	<0.005	60.0	mg/kg	106.7	54	60.0	mg/kg	90.0	16.9
UST VOLATILES NON-AQUEOUS												
Benzene		73	26.4	<0.005	21.6	mg/kg	122.0	27.1	21.6	mg/kg	125.5	2.8
Ethylbenzene		73	28.8	<0.005	21.6	mg/kg	133.0	29.1	21.6	mg/kg	134.5	1.1
Toluene		73	26.7	<0.005	21.6	mg/kg	123.5	28.0	21.6	mg/kg	129.5	4.7
Xylenes, Total		73	83.8	<0.005	64.9	mg/kg	129.2	73.8	64.9	mg/kg	113.8	12.7
UST VOLATILES NON-AQUEOUS												
Benzene		75	23.2	<0.006	22.2	mg/kg	104.5	26.2	22.2	mg/kg	118.0	12.1
Ethylbenzene		75	23.7	<0.006	22.2	mg/kg	107.0	26.3	22.2	mg/kg	118.5	10.2
Toluene		75	23.3	<0.006	22.2	mg/kg	105.0	25.7	22.2	mg/kg	116.0	10.0
Xylenes, Total		75	68.7	<0.006	66.5	mg/kg	103.3	76.3	66.5	mg/kg	114.7	10.5

NOTE: Matrix Spike Samples may not be samples from this job.

#### Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



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**QUALITY CONTROL REPORT**

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix				MSD					
	Batch	Batch	Spike	Sample	Spike	Percent	MSD	Spike	Percent	MS/MSD		
	Number	Number	Result	Result	Amount	Recovery	Result	Amount	Recovery	RPD		
<b>PNA CMPDS - 8310 NONAQUEOUS</b>												
Acenaphthene	766	1827	<0.020	<0.028	0.046	mg/kg	42.1	<0.020	0.046	mg/kg	39.7	5.9
Acenaphthylene	766	1827	0.0205	<0.028	0.046	mg/kg	44.2	<0.020	0.046	mg/kg	39.1	12.2
Anthracene	766	1827	<0.040	<0.056	0.046	mg/kg	44.8	<0.040	0.046	mg/kg	40.9	9.1
Benzo(a)anthracene	766	1827	0.0363	<0.0160	0.046	mg/kg	78.2	0.0319	0.046	mg/kg	68.8	12.8
Benzo(b)fluoranthene	766	1827	0.0162	<0.0051	0.046	mg/kg	34.8	0.0146	0.046	mg/kg	31.5	10.0
Benzo(k)fluoranthene	766	1827	0.0186	<0.0048	0.046	mg/kg	40.0	0.0188	0.046	mg/kg	40.6	1.5
Benzo(a)pyrene	766	1827	0.0148	<0.0065	0.046	mg/kg	31.8	0.013	0.046	mg/kg	27.0	16.3
Benzo(ghi)perylene	766	1827	<0.040	<0.056	0.046	mg/kg	22.4	<0.040	0.046	mg/kg	27.9	21.9
Chrysene	766	1827	<0.03	<0.04	0.046	mg/kg	53.3	<0.03	0.046	mg/kg	46.4	13.8
Dibenzo(a,h)anthracene	766	1827	0.0155	<0.008	0.046	mg/kg	33.3	0.014	0.046	mg/kg	29.4	12.4
Fluoranthene	766	1827	0.0274	<0.028	0.046	mg/kg	59.1	0.0249	0.046	mg/kg	53.6	9.8
Fluorene	766	1827	0.0271	<0.028	0.046	mg/kg	58.5	0.0222	0.046	mg/kg	47.9	19.9
Indeno(1,2,3-cd)pyrene	766	1827	0.012	<0.012	0.046	mg/kg	25.2	0.0098	0.046	mg/kg	21.2	17.2
Naphthalene	766	1827	<0.025	<0.035	0.046	mg/kg	31.8	<0.025	0.046	mg/kg	35.2	10.1
Phenanthrene	766	1827	<0.040	<0.056	0.046	mg/kg	54.5	<0.040	0.046	mg/kg	45.5	18.0
Pyrene	766	1827	0.0308	<0.028	0.046	mg/kg	66.4	0.0293	0.046	mg/kg	63.0	5.3
<b>PCB'S NON-AQUEOUS</b>												
PCB-1016	380	52	543	<0.042	526	mg/kg	103.2	532	526	mg/kg	101.0	2.2
PCB-1260	380	52	517	<0.042	526	mg/kg	98.2	495	526	mg/kg	94.0	4.4
<b>PCB'S NON-AQUEOUS</b>												
PCB-1016	380	57	557	<0.043	541	mg/kg	103.0	919	541	mg/kg	170.0	49.1
PCB-1260	380	57	530	<0.043	541	mg/kg	98.0	548	541	mg/kg	101.4	3.3

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



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## QUALITY CONTROL REPORT

### DUPLICATES

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13604

Mr. Wei-Lin Feng

Analyte	Prep	Run	Original Analysis	Duplicate Analysis	Units	RPD
	Batch Number	Batch Number				
pH, Non-Aqueous		187	9.81	9.91	units	1.0
pH, Non-Aqueous		188	7.55	7.46	units	1.2
Solids, Total		2514	71.6	73.6	%	2.8
Solids, Total		2514	88.9	89.3	%	0.4
Solids, Total		2514	83.3	83.9	%	0.7
Solids, Total		2514	71.1	68.4	%	3.9
Solids, Total		2515	66.8	69.9	%	4.5
Solids, Total		2515	95.0	95.2	%	0.2
Solids, Total		2515	89.0	89.7	%	0.8

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.



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NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ~~ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).~~
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.



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- 
- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.



NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY: ENV Corp, ADDRESS: 745 Pasquonelli Dr, Westmont, IL, PHONE: (630) 887 1700, FAX: (630) 850 5307, PROJECT NAME/LOCATION: Cedar Rd / Will City, PROJECT NUMBER: 1861023710, PROJECT MANAGER: William Gray / Karen Dolnic

REPORT TO: Karen Dolnic, INVOICE TO: ENV, P.O. NO., NET QUOTE NO.

SAMPLED BY

Buckley Buckley

SIGNATURE

[Signature]

(PRINT NAME)

SIGNATURE

# and Type of Containers

ANALYSES

Table with columns: DATE, TIME, SAMPLE ID/DESCRIPTION, MATRIX, GRAB, COMP, HCI, NaOH, HNO3, H2SO4, OTHER, PH, PNAS, BTEX, TPH, PCBs, RCRA Metals (Totals), COMMENTS. Includes handwritten data for samples 10/19 845 through 10/20 1006.

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) NO FIELD FILTERED? YES/NO COC SEALS PRESENT AND INTACT? (YES) NO VOLATILES FREE OF HEADSPACE? (YES) NO TEMPERATURE UPON RECEIPT: 1.5°C methanol Bottles supplied by NET? (YES) NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS DATE

RELINQUISHED BY: B. Buckley DATE: 10/20/98 TIME: 10:35 RECEIVED FOR NET BY: P. Puchniec DATE: 10/21/98 TIME: 08:30

METHOD OF SHIPMENT: Larson Net Pickup PM REMARKS:





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(800) 807-2877

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13888

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Will County 1801-230

Sample Number	Sample Description	Date Taken	Date Received
499952	MW-1	10/26/1998	10/27/1998
499953	MW-2	10/26/1998	10/27/1998
499954	MW-3	10/26/1998	10/27/1998
499955	MW-4	10/26/1998	10/27/1998
499956	MW-5	10/26/1998	10/27/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR.  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499952  
NET Job No.: 98.13888

Sample Description: MW-1  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	6.77	units	10/27/1998	0.10	efw	1715	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 1146	SW 7060
Barium, ICP	0.059	mg/L	11/05/1998	0.020	kdw	2197 3769	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/05/1998	0.010	kdw	2197 3737	SW 6010B
Chromium, ICP	<0.040	mg/L	11/05/1998	0.040	kdw	2197 3746	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/06/1998	0.0050	mhp	1351 2170	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/03/1998	0.0002	sep	1185 1091	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 857	SW 7740
Silver, AA	<0.040	mg/L	11/04/1998	0.040	sep	1014 992	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		10/30/1998		rmp	370	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
Surr: Tetrachloroxylene (TCX)	69.0	%	11/06/1998	22-154	tls	370 701	SW 8082
Surr: Decachlorobiphenyl (DCB)	65.0	%	11/06/1998	23-154	tls	370 701	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

Sample No. : 499952

NET Job No.: 98.13888

Sample Description: MW-1  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Toluene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Xylenes, Total	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Surr: Toluene-d8	110.2	µ	11/06/1998	85-117	mjo	2639	SW 8260A
Surr: Bromofluorobenzene	103.0	µ	11/06/1998	80-116	mjo	2639	SW 8260A
Surr: Dibromofluoromethane	99.8	µ	11/06/1998	75-130	mjo	2639	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		10/29/1998		mmv	406	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Acenaphthylene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Anthracene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/06/1998	0.00013	keh	406 1201	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/06/1998	0.00018	keh	406 1201	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/06/1998	0.00017	keh	406 1201	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/06/1998	0.00023	keh	406 1201	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/06/1998	0.00076	keh	406 1201	SW 8310
Chrysene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/06/1998	0.00030	keh	406 1201	SW 8310
Fluoranthene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Fluorene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/06/1998	0.00043	keh	406 1201	SW 8310
Naphthalene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Phenanthrene	<0.0010	mg/L	11/06/1998	0.0010	keh	406 1201	SW 8310
Pyrene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499952  
NET Job No.: 98.13888

Sample Description: MW-1  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
Surr: p-Terphenyl	87.2	μ	11/06/1998	43-125	keh	406 1201	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499953  
NET Job No.: 98.13888

Sample Description: MW-2  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.33	units	10/27/1998	0.10	efw	1715	EPA 150.1
Arsenic, GFAA	0.0054	mg/L	11/07/1998	0.0050	mhp	1351 1146	SW 7060
Barium, ICP	0.379	mg/L	11/05/1998	0.020	kdw	2197 3769	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/05/1998	0.010	kdw	2197 3737	SW 6010B
Chromium, ICP	<0.040	mg/L	11/05/1998	0.040	kdw	2197 3746	SW 6010B
Lead, GFAA	0.0148	mg/L	11/06/1998	0.0050	mhp	1351 2170	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/03/1998	0.0002	sep	1185 1091	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 857	SW 7740
Silver, AA	<0.040	mg/L	11/04/1998	0.040	sep	1014 992	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		10/30/1998		rmp	370	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
Surr: Tetrachloroxylene (TCX)	72.0	µ	11/06/1998	22-154	tls	370 701	SW 8082
Surr: Decachlorobiphenyl (DCB)	61.0	µ	11/06/1998	23-154	tls	370 701	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499953  
NET Job No. : 98.13888

Sample Description: MW-2  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Toluene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Xylenes, Total	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Surr: Toluene-d8	110.2	%	11/06/1998	85-117	mjo	2639	SW 8260A
Surr: Bromofluorobenzene	101.2	%	11/06/1998	80-116	mjo	2639	SW 8260A
Surr: Dibromofluoromethane	100.0	%	11/06/1998	75-130	mjo	2639	SW 8260A
Prep, 8310 PNAS AQUEOUS	extracted		10/29/1998		mmv	406	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Acenaphthylene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Anthracene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/06/1998	0.00013	keh	406 1201	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/06/1998	0.00018	keh	406 1201	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/06/1998	0.00017	keh	406 1201	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/06/1998	0.00023	keh	406 1201	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/06/1998	0.00076	keh	406 1201	SW 8310
Chrysene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/06/1998	0.00030	keh	406 1201	SW 8310
Fluoranthene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Fluorene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/06/1998	0.00043	keh	406 1201	SW 8310
Naphthalene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Phenanthrene	<0.0010	mg/L	11/06/1998	0.0010	keh	406 1201	SW 8310
Pyrene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310



NATIONAL ENVIRONMENTAL TESTING, INC.

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### ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499953  
NET Job No.: 98.13888

Sample Description: MW-2  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-i:arphenyl	88.8	μ	11/06/1998	43-125	keh	406 1201	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499954  
NET Job No.: 98.13888

Sample Description: MW-3  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 18:30  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	6.86	units	10/27/1998	0.10	efw	1715	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 1146	SW 7060
Barium, ICP	0.137	mg/L	11/05/1998	0.020	kdw	2197 3769	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/05/1998	0.010	kdw	2197 3737	SW 6010B
Chromium, ICP	<0.040	mg/L	11/05/1998	0.040	kdw	2197 3746	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/06/1998	0.0050	mhp	1351 2170	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/03/1998	0.0002	sep	1185 1091	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 857	SW 7740
Silver, AA	<0.040	mg/L	11/04/1998	0.040	sep	1014 992	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		10/30/1998		rmp	370	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
Surr: Tetrachloroxylene (TCX)	78.0	%	11/06/1998	22-154	tls	370 701	SW 8082
Surr: Decachlorobiphenyl (DCB)	68.0	%	11/06/1998	23-154	tls	370 701	SW 8082



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

Sample No. : 499954

NET Job No.: 98.13888

Sample Description: MW-3  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 18:30  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Toluene	<0.001	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Xylenes, Total	0.0016	mg/L	11/06/1998	0.001	mjo	2639	SW 8260A
Surr: Toluene-d8	103.8	µ	11/06/1998	85-117	mjo	2639	SW 8260A
Surr: Bromofluorobenzene	100.2	µ	11/06/1998	80-116	mjo	2639	SW 8260A
Surr: Dibromofluoromethane	99.4	µ	11/06/1998	75-130	mjo	2639	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		10/29/1998		mmv	406	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Acenaphthylene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Anthracene	<0.0013 MX	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/06/1998	0.00013	keh	406 1201	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/06/1998	0.00018	keh	406 1201	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/06/1998	0.00017	keh	406 1201	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/06/1998	0.00023	keh	406 1201	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/06/1998	0.00076	keh	406 1201	SW 8310
Chrysene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/06/1998	0.00030	keh	406 1201	SW 8310
Fluoranthene	<0.00087 MX	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Fluorene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/06/1998	0.00043	keh	406 1201	SW 8310
Naphthalene	<0.0020 MX	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Phenanthrene	<0.0010	mg/L	11/06/1998	0.0010	keh	406 1201	SW 8310
Pyrene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499954  
NET Job No.: 98.13888

Sample Description: MW-3  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 18:30  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	97.2	μ	11/06/1998	43-125	keh	406 1201	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499955  
NET Job No.: 98.13888

Sample Description: MW-4  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.27	units	10/27/1998	0.10	efw	1715	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 1146	SW 7060
Barium, ICP	0.069	mg/L	11/05/1998	0.020	kdw	2197 3769	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/05/1998	0.010	kdw	2197 3737	SW 6010B
Chromium, ICP	<0.040	mg/L	11/05/1998	0.040	kdw	2197 3746	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/06/1998	0.0050	mhp	1351 2170	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/03/1998	0.0002	sep	1185 1091	SW 7470A
Selenium, GFAA	0.0102	mg/L	11/07/1998	0.0050	mhp	1351 857	SW 7740
Silver, AA	<0.040	mg/L	11/04/1998	0.040	sep	1014 992	SW 7760
Prep. PCBs 8082 Aqueous	COMPLETE		10/30/1998		rmp	370	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
Surr: Tetrachloroxylene (TCX)	73.0	%	11/06/1998	22-154	tls	370 701	SW 8082
Surr: Decachlorobiphenyl (DCB)	68.0	%	11/06/1998	23-154	tls	370 701	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

Sample No. : 499955

NET Job No.: 98.13888

Sample Description: MW-4  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	<0.001	mg/L	11/06/1998	0.001	mjo	2639 SW 8260A	
Ethyl Benzene	<0.001	mg/L	11/06/1998	0.001	mjo	2639 SW 8260A	
Toluene	<0.001	mg/L	11/06/1998	0.001	mjo	2639 SW 8260A	
Xylenes, Total	<0.001	mg/L	11/06/1998	0.001	mjo	2639 SW 8260A	
Surr: Toluene-d8	104.0	‰	11/06/1998	85-117	mjo	2639 SW 8260A	
Surr: Bromofluorobenzene	100.6	‰	11/06/1998	80-116	mjo	2639 SW 8260A	
Surr: Dibromofluoromethane	99.2	‰	11/06/1998	75-130	mjo	2639 SW 8260A	
Prep, 8310 PNAs AQUEOUS	extracted		10/29/1998		mmv	406 SW 3520C	
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201 SW 8310	
Acenaphthylene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201 SW 8310	
Anthracene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201 SW 8310	
Benzo(a)anthracene	<0.00013	mg/L	11/06/1998	0.00013	keh	406 1201 SW 8310	
Benzo(b)fluoranthene	<0.00018	mg/L	11/06/1998	0.00018	keh	406 1201 SW 8310	
Benzo(k)fluoranthene	<0.00017	mg/L	11/06/1998	0.00017	keh	406 1201 SW 8310	
Benzo(a)pyrene	<0.00023	mg/L	11/06/1998	0.00023	keh	406 1201 SW 8310	
Benzo(ghi)perylene	<0.00076	mg/L	11/06/1998	0.00076	keh	406 1201 SW 8310	
Chrysene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201 SW 8310	
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/06/1998	0.00030	keh	406 1201 SW 8310	
Fluoranthene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201 SW 8310	
Fluorene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201 SW 8310	
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/06/1998	0.00043	keh	406 1201 SW 8310	
Naphthalene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201 SW 8310	
Phenanthrene	<0.0010	mg/L	11/06/1998	0.0010	keh	406 1201 SW 8310	
Pyrene	<0.0005	mg/L	11/06/1998	0.0005	keh	406 1201 SW 8310	



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### ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499955  
NET Job No.: 98.13888

Sample Description: MW-4  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	85.0	μ	11/06/1998	43-125	keh	406 1201	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499956  
NET Job No.: 98.13888

Sample Description: MW-5  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 17:30  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	6.55	units	10/27/1998	0.10	efw	1715	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 1146	SW 7060
Barium, ICP	0.157	mg/L	11/05/1998	0.020	kdw	2197 3769	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/05/1998	0.010	kdw	2197 3737	SW 6010B
Chromium, ICP	<0.040	mg/L	11/05/1998	0.040	kdw	2197 3746	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/06/1998	0.0050	mhp	1351 2170	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/03/1998	0.0002	sep	1185 1091	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 857	SW 7740
Silver, AA	<0.040	mg/L	11/04/1998	0.040	sep	1014 992	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		10/30/1998		rmp	370	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	370 701	SW 8082
Surr: Tetrachloroxylene (TCX)	68.0	%	11/06/1998	22-154	tls	370 701	SW 8082
Surr: Decachlorobiphenyl (DCB)	65.0	%	11/06/1998	23-154	tls	370 701	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499956  
NET Job No.: 98.13888

Sample Description: MW-5  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 17:30  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	0.031	mg/L	11/07/1998	0.001	mjo	2642	SW 8260A
Ethyl Benzene	0.037	mg/L	11/07/1998	0.001	mjo	2642	SW 8260A
Toluene	0.066	mg/L	11/07/1998	0.001	mjo	2642	SW 8260A
Xylenes, Total	0.058	mg/L	11/07/1998	0.001	mjo	2642	SW 8260A
Surr: Toluene-d8	105.0	‰	11/07/1998	85-117	mjo	2642	SW 8260A
Surr: Bromofluorobenzene	102.2	‰	11/07/1998	80-116	mjo	2642	SW 8260A
Surr: Dibromofluoromethane	99.6	‰	11/07/1998	75-130	mjo	2642	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		10/29/1998		mmv	406	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.051	MX mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Acenaphthylene	<0.0020	MX mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Anthracene	<0.17	MX mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Benzo (a) anthracene	<0.020	MX mg/L	11/06/1998	0.00013	keh	406 1201	SW 8310
Benzo (b) fluoranthene	<0.0022	MX mg/L	11/06/1998	0.00018	keh	406 1201	SW 8310
Benzo (k) fluoranthene	<0.00017	MX mg/L	11/06/1998	0.00017	keh	406 1201	SW 8310
Benzo (a) pyrene	<0.00023	MX mg/L	11/06/1998	0.00023	keh	406 1201	SW 8310
Benzo (ghi) perylene	<0.00076	MX mg/L	11/06/1998	0.00076	keh	406 1201	SW 8310
Chrysene	<0.013	MX mg/L	11/06/1998	0.0005	keh	406 1201	SW 8310
Dibenzo (a, h) anthracene	<0.00030	MX mg/L	11/06/1998	0.00030	keh	406 1201	SW 8310
Fluoranthene	<0.17	MX mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Fluorene	0.19	MX mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.00043	MX mg/L	11/06/1998	0.00043	keh	406 1201	SW 8310
Naphthalene	0.46	MX mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Phenanthrene	<0.30	MX mg/L	11/08/1998	0.0010	keh	406 1206	SW 8310
Pyrene	<0.28	MX mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998  
Sample No. : 499956  
NET Job No.: 98.13888

Sample Description: MW-5  
ComEd-Will County 1801-230

Date Taken: 10/26/1998  
Time Taken: 17:30  
IEPA Cert. No. 100221

Date Received: 10/27/1998  
Time Received: 14:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	Masked		11/06/1998	43-125	keh	406 1201	SW 8310



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13888

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
pH	1715	7.02	6.96	99.1
Arsenic, GFAA	1146	0.0250	0.0250	100.0
Barium, ICP	3769	2.00	1.98	99.0
Cadmium, ICP	3737	1.00	0.969	96.9
Chromium, ICP	3746	2.00	1.97	98.5
Lead, GFAA	2170	0.0250	0.0253	101.2
Mercury, CVAA	1091	0.0025	0.00262	104.8
Selenium, GFAA	857	0.0500	0.0487	97.4
Silver, AA	992	0.500	0.481	96.2
PCBs 8082 Aqueous				
PCB-1016	701	500.	514	102.8
PCB-1260	701	500	502	100.4
PCBs 8082 Aqueous				
PCB-1016	701	500.	509	101.8
PCB-1260	701	500	502	100.4
UST VOLATILES 8260 - AQUEOUS				
Benzene	2639	50.0	53.2	106.4
Ethyl Benzene	2639	50.0	53.3	106.6
Toluene	2639	50.0	53.3	106.6
Xylenes, Total	2639	150	172	114.7
UST VOLATILES 8260 - AQUEOUS				
Benzene	2642	50.0	52.7	105.4
Ethyl Benzene	2642	50.0	49.7	99.4
Toluene	2642	50.0	52.4	104.8
Xylenes, Total	2642	150	160	106.7
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1201	5000	4,822	96.4
Acenaphthylene	1201	5000	5,056	101.1
Anthracene	1201	5000	5,143	102.9
Benzo (a) anthracene	1201	5000	5,147	102.9
Benzo (b) fluoranthene	1201	5000	4,858	97.2
Benzo (k) fluoranthene	1201	5000	4,867	97.3
Benzo (a) pyrene	1201	5000	5,010	100.2
Benzo (ghi) perylene	1201	5000	5,065	101.3

CCV - Continuing Calibration Verification





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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13888

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc.	Percent
	Batch	True		
	Number	Conc.	Found	
Chrysene	1201	5000	5,084	101.7
Dibenzo(a,h)anthracene	1201	5000	4,997	99.9
Fluoranthene	1201	5000	5,049	101.0
Fluorene	1201	5000	4,987	99.7
Indeno(1,2,3-cd)pyrene	1201	5000	5,193	103.9
Naphthalene	1201	5000	4,670	93.4
Phenanthrene	1201	5000	5,072	101.4
Pyrene	1201	5000	4,953	99.1
Surr: p-Terphenyl	1201	5000	4,878	97.6
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1201	5000	4,878	97.6
Acenaphthylene	1201	5000	5,382	107.6
Anthracene	1201	5000	5,294	105.9
Benzo(a)anthracene	1201	5000	5,117	102.3
Benzo(b)fluoranthene	1201	5000	4,897	97.9
Benzo(k)fluoranthene	1201	5000	4,877	97.5
Benzo(a)pyrene	1201	5000	4,805	96.1
Benzo(ghi)perylene	1201	5000	5,220	104.4
Chrysene	1201	5000	5,071	101.4
Dibenzo(a,h)anthracene	1201	5000	5,042	100.8
Fluoranthene	1201	5000	5,242	104.8
Fluorene	1201	5000	4,956	99.1
Indeno(1,2,3-cd)pyrene	1201	5000	5,090	101.8
Naphthalene	1201	5000	4,793	95.9
Phenanthrene	1201	5000	5,122	102.4
Pyrene	1201	5000	5,072	101.4
Surr: p-Terphenyl	1201	5000	4,887	97.7
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1206	5000	4,696	93.9
Anthracene	1206	5000	5,039	100.8
Fluoranthene	1206	5000	4,931	98.6
Fluorene	1206	5000	4,888	97.8
Naphthalene	1206	5000	4,702	94.0
Phenanthrene	1206	5000	4,767	95.3

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13888

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Pyrene	1206	5000	5,159	103.2
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1206	5000	4,486	89.7
Anthracene	1206	5000	5,046	100.9
Fluoranthene	1206	5000	4,912	98.2
Fluorene	1206	5000	4,925	98.5
Naphthalene	1206	5000	4,625	92.5
Phenanthrene	1206	5000	4,650	93.0
Pyrene	1206	5000	4,998	100.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13888

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting	Analytical
	Batch	Batch	Analysis			
	Number	Number	Results		Limit	Method
Arsenic, GFAA	1351	1145	<0.0050	mg/L	0.0050	SW 7060
Barium, ICP	2197	3769	<0.020	mg/L	0.020	SW 6010B
Cadmium, ICP	2197	3737	<0.010	mg/L	0.010	SW 6010B
Chromium, ICP	2197	3746	<0.040	mg/L	0.040	SW 6010B
Lead, GFAA	1351	2170	<0.0050	mg/L	0.0050	SW 7421
Mercury, CVAA	1185	1091	<0.0002	mg/L	0.0002	SW 7470A
Mercury, CVAA	1185	1091	<0.0002	mg/L	0.0002	SW 7470A
Selenium, GFAA	1351	856	<0.0050	mg/L	0.005	SW 7740
Silver, AA	1014	992	<0.040	mg/L	0.040	SW 7760
PCBs 8082 Aqueous						SW 8082
PCB-1016	370	701	<0.5	ug/L	0.5	SW 8082
PCB-1221	370	701	<0.5	ug/L	0.5	SW 8082
PCB-1232	370	701	<0.5	ug/L	0.5	SW 8082
PCB-1242	370	701	<0.5	ug/L	0.5	SW 8082
PCB-1248	370	701	<0.5	ug/L	0.5	SW 8082
PCB-1254	370	701	<0.5	ug/L	0.5	SW 8082
PCB-1260	370	701	<0.5	ug/L	0.5	SW 8082
Surr: Tetrachloroxylene (TCX)	370	701	55.0	%	22-154	SW 8082
Surr: Decachlorobiphenyl (DCB)	370	701	63.0	%	23-154	SW 8082
UST VOLATILES 8260 - AQUEOUS						SW 8260A
Benzene		2639	<1.0	ug/L	1.0	SW 8260A
Ethyl Benzene		2639	<1.0	ug/L	1.0	SW 8260A
Toluene		2639	<1.0	ug/L	1.0	SW 8260A
Xylenes, Total		2639	<1.0	ug/L	1.0	SW 8260A
Surr: Dibromofluoromethane		2639	101.4	%	75-130	SW 8260A
Surr: Toluene-d8		2639	113.0	%	85-117	SW 8260A
Surr: Bromofluorobenzene		2639	105.4	%	80-116	SW 8260A
UST VOLATILES 8260 - AQUEOUS						SW 8260A
Benzene		2642	<1.0	ug/L	1.0	SW 8260A

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13888

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Ethyl Benzene		2642	<1.0	ug/L	1.0	SW 8260A
Toluene		2642	<1.0	ug/L	1.0	SW 8260A
Xylenes, Total		2642	<1.0	ug/L	1.0	SW 8260A
Surr: Dibromofluoromethane		2642	99.8	%	75-130	SW 8260A
Surr: Toluene-d8		2642	104.2	%	85-117	SW 8260A
Surr: Bromofluorobenzene		2642	102.2	%	80-116	SW 8260A
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	406	1201	<0.0005	mg/L	0.0005	SW 8310
Acenaphthylene	406	1201	<0.0005	mg/L	0.0005	SW 8310
Anthracene	406	1201	<0.0005	mg/L	0.0005	SW 8310
Benzo (a) anthracene	406	1201	<0.00013	mg/L	0.00013	SW 8310
Benzo (b) fluoranthene	406	1201	<0.00018	mg/L	0.00018	SW 8310
Benzo (k) fluoranthene	406	1201	<0.00017	mg/L	0.00017	SW 8310
Benzo (a) pyrene	406	1201	<0.00023	mg/L	0.00023	SW 8310
Benzo (ghi) perylene	406	1201	<0.00076	mg/L	0.00076	SW 8310
Chrysene	406	1201	<0.0005	mg/L	0.0005	SW 8310
Dibenzo (a,h) anthracene	406	1201	<0.00030	mg/L	0.00030	SW 8310
Fluoranthene	406	1201	<0.0005	mg/L	0.0005	SW 8310
Fluorene	406	1201	<0.0005	mg/L	0.0005	SW 8310
Indeno (1,2,3-cd) pyrene	406	1201	<0.00043	mg/L	0.00043	SW 8310
Naphthalene	406	1201	<0.0005	mg/L	0.0005	SW 8310
Phenanthrene	406	1201	<0.0010	mg/L	0.0010	SW 8310
Pyrene	406	1201	<0.0005	mg/L	0.0005	SW 8310
Surr: p-Terphenyl	406	1201	90.1	%	43-125	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13888

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	1351	1145	0.0200	0.0191	95.5
Barium, ICP	2197	3769	5.00	5.79	115.8
Cadmium, ICP	2197	3737	2.500	2.78	111.2
Chromium, ICP	2197	3746	5.00	6.08	121.6
Lead, GFAA	1351	2170	0.0100	0.0108	108.0
Mercury, CVAA	1185	1091	0.0025	0.00251	100.4
Mercury, CVAA	1185	1091	0.0025	0.00251	100.4
Mercury, CVAA		1091	0.0020	0.00196	98.0
Selenium, GFAA	1351	856	0.0200	0.0176	88.0
Silver, AA	1014	992	1.00	1.01	101.0
Silver, AA		992	0.10	0.094	94.0
PNA CMPDS - 8310 AQUEOUS					
Acenaphthene	406	1201	0.001	0.00081	81.0
Acenaphthylene	406	1201	0.001	0.00082	82.0
Anthracene	406	1201	0.001	0.00083	83.0
Benzo (a) anthracene	406	1201	0.001	0.00087	87.0
Benzo (b) fluoranthene	406	1201	0.001	0.00082	82.0
Benzo (k) fluoranthene	406	1201	0.001	0.00085	85.0
Benzo (a) pyrene	406	1201	0.001	0.00077	77.0
Benzo (ghi) perylene	406	1201	0.001	0.00085	85.0
Chrysene	406	1201	0.001	0.00087	87.0
Dibenzo (a, h) anthracene	406	1201	0.001	0.00083	83.0
Fluoranthene	406	1201	0.001	0.00083	83.0
Fluorene	406	1201	0.001	0.00082	82.0
Indeno (1, 2, 3-cd) pyrene	406	1201	0.001	0.00084	84.0
Naphthalene	406	1201	0.001	0.00079	79.0
Phenanthrene	406	1201	0.001	0.00082	82.0
Pyrene	406	1201	0.001	0.00083	83.0
Surr: p-Terphenyl	406	1201	2000	1,625	81.3



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## QUALITY CONTROL REPORT

### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13888

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix	Sample	Spike	Percent	MSD	MSD	MSD	Percent	MS/MSD	
	Batch	Batch	Spike									Result
	Number	Number	Result	Result	Amount	Units	Recovery	Result	Amount	Units	Recovery	RPD
Barium, ICP	2197	3769	0.165	0.062	0.100	mg/L	103.0	0.163	0.100	mg/L	101.0	2.0
Cadmium, ICP	2197	3737	0.053	<0.010	0.050	mg/L	106.0	0.053	0.050	mg/L	106.0	0.0
Chromium, ICP	2197	3746	0.114	<0.040	0.100	mg/L	114.0	0.108	0.100	mg/L	108.0	5.4
Mercury, CVAA	1185	1091	0.00245	<0.0002	0.0025	mg/L	98.0	0.0025	0.0025	mg/L	102.4	4.3
Mercury, CVAA	1185	1091	0.00207	<0.0002	0.0020	mg/L	103.5	0.0021	0.0020	mg/L	106.0	2.4
Mercury, CVAA	1185	1091	0.00229	<0.0002	0.0020	mg/L	114.5	0.0022	0.0020	mg/L	111.5	2.7
Silver, AA	1014	992	0.040	<0.040	0.10	mg/L	40.0	0.091	0.10	mg/L	91.0	77.9
UST VOLATILES 8260 - AQUEOU												
Benzene		2639	20.9	<0.001	20.0	mg/L	104.5	21.6	20.0	mg/L	108.0	3.3
Ethyl Benzene		2639	19.3	<0.001	20.0	mg/L	96.5	18.9	20.0	mg/L	94.5	2.1
Toluene		2639	20.0	<0.001	20.0	mg/L	100.0	19.7	20.0	mg/L	98.5	1.4
Xylenes, Total		2639	62.0	<0.001	60.0	mg/L	103.3	60.0	60.0	mg/L	100.0	3.2

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.
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# CHAIN OF CUSTODY RECORD

COMPANY ENSR Corp.  
 ADDRESS 710 Asgardsli  
 PHONE (630) 887-1700  
 PROJECT NAME/LOCATION Coveed / Will County  
 PROJECT NUMBER 1801-230  
 PROJECT MANAGER Wei-Lin Fang

REPORT TO: Wei-Lin Fang  
 INVOICE TO: \_\_\_\_\_  
 P.O. NO. \_\_\_\_\_  
 NET QUOTE NO. \_\_\_\_\_

SAMPLED BY: Isabelle McKeenolds  
 (PRINT NAME)

SIGNATURE: Isabelle McKeenolds

(PRINT NAME)

SIGNATURE

### ANALYSES

To assist us in selecting the proper method  
 Is this work being conducted for regulatory compliance monitoring? Yes \_\_\_ No \_\_\_  
 Is this work being conducted for regulatory enforcement action? Yes \_\_\_ No \_\_\_  
 Which regulations apply: RCRA \_\_\_ NPDES Wastewater \_\_\_  
 UST \_\_\_ Drinking Water \_\_\_  
 Other \_\_\_ None \_\_\_

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers						COMMENTS	
						HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	OTHER			
10/24/98	15:00	MW-1	W			3	1			4	X	PH	
	16:00	MW-2									X	PVA	
	18:30	MW-3									X	DICB	
	19:00	MW-4									X	ISTEX	
	17:30	MW-5									X	KCRA Metals	

CONDITION OF SAMPLE: BOTTLES INTACT?  YES  NO  
 FIELD FILTERED?  YES  NO  
 COC SEALS PRESENT AND INTACT?  YES  NO  
 VOLATILES FREE OF HEADSPACE?  YES  NO  
 TEMPERATURE UPON RECEIPT: 1.8°C with ice  
 Bottles supplied by NET?  YES  NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS \_\_\_\_\_

RELINQUISHED BY: Isabelle McKeenolds DATE: 10/27/98 TIME: 1440 RECEIVED FOR NET BY: P. Pruvitt  
 METHOD OF SHIPMENT: NET





**NATIONAL ENVIRONMENTAL TESTING, INC.**

Bartlett Division  
850 West Bartlett Rd.  
Bartlett, IL 60103  
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Rockford Division  
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(800) 807-2877

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Will County; 1801-023-610

Sample Number	Sample Description	Date Taken	Date Received
498406	B1 (0-3)	10/15/1998	10/15/1998
498407	B2 (0-3)	10/15/1998	10/15/1998
498408	B4 (0-2)	10/15/1998	10/15/1998
498409	B3 (0-1)	10/15/1998	10/15/1998
498410	B5 (0-1)	10/15/1998	10/15/1998
498411	B6 (0-2)	10/15/1998	10/15/1998
498412	B7 (0-1)	10/15/1998	10/15/1998
498413	B8 (0-1)	10/15/1998	10/15/1998
498414	B9 (0-1)	10/15/1998	10/15/1998
498415	B10 (0-1)	10/15/1998	10/15/1998
498416	B11 (0-1)	10/15/1998	10/15/1998
498417	B12 (0-2)	10/15/1998	10/15/1998
498418	B13 (0-1)	10/15/1998	10/15/1998
498419	B14 (0-1)	10/15/1998	10/15/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Will County; 1801-023-610

Sample Number	Sample Description	Date Taken	Date Received
498420	B15 (0-1)	10/15/1998	10/15/1998
498421	B16 (0-1)	10/15/1998	10/15/1998
498422	B17 (0-1)	10/15/1998	10/15/1998
498423	B18	10/15/1998	10/15/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

Sample No. : 498406

NET Job No.: 98.13402

Sample Description: B1 (0-3)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:10  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.63	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	80.4	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	4.6	mg/kg dw	11/02/1998	0.62	mhp	226 668	SW 7060
Barium, ICP	1,180	mg/kg dw	10/30/1998	1.2	jtt	1153 2169	SW 6010B
Cadmium, ICP	0.85	mg/kg dw	10/31/1998	0.62	jtt	1153 2155	SW 6010B
Chromium, ICP	17	mg/kg dw	10/31/1998	2.5	jtt	1153 2140	SW 6010B
Lead, ICP	66	mg/kg dw	11/02/1998	5.0	jtt	1153 2382	SW 6010B
Mercury, CVAA	0.091	mg/kg dw	10/29/1998	0.050	sep	664 768	SW 7471A
Selenium, GFAA	<0.31	mg/kg dw	11/03/1998	0.31	mhp	226 555	SW 7740
Silver, AA	<2.5	mg/kg dw	10/27/1998	2.5	sep	485 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Toluene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Dibromofluoromethane (Surr)	109.8	%	10/26/1998	81-129	jap	59	SW 8260A
Toluene-d8 (Surr)	93.2	%	10/26/1998	74-129	jap	59	SW 8260A
4-Bromofluoromethane (Surr)	96.8	%	10/26/1998	70-130	jap	59	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	754	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.1	mg/kg dw	10/27/1998	0.025	keh	754 1810	SW 8310
Acenaphthylene	<0.1	mg/kg dw	10/27/1998	0.025	keh	754 1810	SW 8310
Anthracene	<0.2	mg/kg dw	10/27/1998	0.050	keh	754 1810	SW 8310
Benzo(a)anthracene	0.49	mg/kg dw	10/27/1998	0.0032	keh	754 1810	SW 8310
Benzo(b)fluoranthene	0.55	mg/kg dw	10/27/1998	0.0045	keh	754 1810	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498406  
NET Job No.: 98.13402

Sample Description: B1 (0-3)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:10  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.32	mg/kg dw	10/27/1998	0.0042	keh	754 1810	SW 8310
Benzo (a) pyrene	0.65	mg/kg dw	10/27/1998	0.0057	keh	754 1810	SW 8310
Benzo (ghi) perylene	0.55	mg/kg dw	10/27/1998	0.050	keh	754 1810	SW 8310
Chrysene	0.62	mg/kg dw	10/27/1998	0.04	keh	754 1810	SW 8310
Dibenzo (a,h) anthracene	0.073	mg/kg dw	10/27/1998	0.007	keh	754 1810	SW 8310
Fluoranthene	1.0	mg/kg dw	10/27/1998	0.025	keh	754 1810	SW 8310
Fluorene	<0.1	mg/kg dw	10/27/1998	0.025	keh	754 1810	SW 8310
Indeno (1,2,3-cd) pyrene	0.47	mg/kg dw	10/27/1998	0.011	keh	754 1810	SW 8310
Naphthalene	<0.1	mg/kg dw	10/27/1998	0.031	keh	754 1810	SW 8310
Phenanthrene	0.52	mg/kg dw	10/27/1998	0.050	keh	754 1810	SW 8310
Pyrene	0.95	mg/kg dw	10/27/1998	0.025	keh	754 1810	SW 8310
Surr: p-Terphenyl	Masked		10/27/1998	43-125	keh	754 1810	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	373	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.050	mg/kg dw	10/30/1998	0.050	tls	373 47	SW 8082
PCB-1221	<0.050	mg/kg dw	10/30/1998	0.050	tls	373 47	SW 8082
PCB-1232	<0.050	mg/kg dw	10/30/1998	0.050	tls	373 47	SW 8082
PCB-1242	<0.050	mg/kg dw	10/30/1998	0.050	tls	373 47	SW 8082
PCB-1248	<0.050	mg/kg dw	10/30/1998	0.050	tls	373 47	SW 8082
PCB-1254	1.1	mg/kg dw	11/04/1998	0.050	tls	373 51	SW 8082
PCB-1260	<0.050	mg/kg dw	10/30/1998	0.050	tls	373 47	SW 8082
Decachlorobiphenyl (Surr)	111.0	µ	10/30/1998	NA	tls	373 47	SW 8082
2,4,5,6-TCMX (Surr)	84.0	µ	10/30/1998	NA	tls	373 47	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498407  
NET Job No.: 98.13402

Sample Description: B2 (0-3)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:22  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.14	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	91.7	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	4.9	mg/kg dw	11/02/1998	0.55	mhp	226 668	SW 7060
Barium, ICP	992	mg/kg dw	11/02/1998	1.1	jtt	1158 2176	SW 6010B
Cadmium, ICP	0.85	mg/kg dw	11/04/1998	0.55	kdw	1158 2169	SW 6010B
Chromium, ICP	17	mg/kg dw	10/31/1998	2.2	jtt	1158 2140	SW 6010B
Lead, ICP	36	mg/kg dw	11/03/1998	4.4	jtt	1158 2385	SW 6010B
Mercury, CVAA	0.11	mg/kg dw	10/29/1998	0.044	sep	664 768	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/03/1998	0.27	mhp	226 555	SW 7740
Silver, AA	<2.2	mg/kg dw	10/27/1998	2.2	sep	485 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/26/1998	0.005	jap	59	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/26/1998	0.005	jap	59	SW 8260A
Toluene	<0.005	mg/kg dw	10/26/1998	0.005	jap	59	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/26/1998	0.005	jap	59	SW 8260A
Dibromofluoromethane (Surr)	104.0	%	10/26/1998	81-129	jap	59	SW 8260A
Toluene-d8 (Surr)	95.8	%	10/26/1998	74-129	jap	59	SW 8260A
4-Bromofluoromethane (Surr)	98.4	%	10/26/1998	70-130	jap	59	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	754	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<1.1	mg/kg dw	10/27/1998	0.022	kdw	754 1825	SW 8310
Acenaphthylene	<1.1	mg/kg dw	10/27/1998	0.022	kdw	754 1825	SW 8310
Anthracene	<2.2	mg/kg dw	10/27/1998	0.044	kdw	754 1825	SW 8310
Benzo(a)anthracene	1.4	mg/kg dw	10/27/1998	0.0028	kdw	754 1825	SW 8310
Benzo(b)fluoranthene	1.3	mg/kg dw	10/27/1998	0.0039	kdw	754 1825	SW 8310

ELV : Elevated reporting limits due to matrix interference.





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**ANALYTICAL REPORT**

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11/05/1998  
Sample No. : 498407  
NET Job No.: 98.13402

Sample Description: B2 (0-3)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:22  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.84	mg/kg dw	10/27/1998	0.0037	kdw	754 1825	SW 8310
Benzo (a) pyrene	1.4	mg/kg dw	10/27/1998	0.0050	kdw	754 1825	SW 8310
Benzo (ghi) perylene	<2.2	mg/kg dw	10/27/1998	0.044	kdw	754 1825	SW 8310
Chrysene	<2	mg/kg dw	10/27/1998	0.03	kdw	754 1825	SW 8310
Dibenzo (a, h) anthracene	<0.4	mg/kg dw	10/27/1998	0.007	kdw	754 1825	SW 8310
Fluoranthene	2.3	mg/kg dw	10/27/1998	0.022	kdw	754 1825	SW 8310
Fluorene	<1.1	mg/kg dw	10/27/1998	0.022	kdw	754 1825	SW 8310
Indeno (1, 2, 3-cd) pyrene	1.0	mg/kg dw	10/27/1998	0.0094	kdw	754 1825	SW 8310
Naphthalene	<1.36	mg/kg dw	10/27/1998	0.027	kdw	754 1825	SW 8310
Phenanthrene	<2.2	mg/kg dw	10/27/1998	0.044	kdw	754 1825	SW 8310
Pyrene	2.0	mg/kg dw	10/27/1998	0.022	kdw	754 1825	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	754 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	373	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1221	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1232	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1242	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1248	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1254	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1260	0.055	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
Decachlorobiphenyl (Surr)	112.0	‡	10/30/1998	NA	tls	373 47	SW 8082
2,4,5,6-TCMX (Surr)	82.0	‡	10/30/1998	NA	tls	373 47	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498408  
NET Job No.: 98.13402

Sample Description: B4 (0-2)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.83	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	88.3	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	5.3	mg/kg dw	11/02/1998	0.57	mhp	226 668	SW 7060
Barium, ICP	634	mg/kg dw	11/02/1998	1.1	jtt	1158 2176	SW 6010B
Cadmium, ICP	1.2	mg/kg dw	10/31/1998	0.57	jtt	1158 2155	SW 6010B
Chromium, ICP	11	mg/kg dw	10/31/1998	2.3	jtt	1158 2140	SW 6010B
Lead, ICP	18	mg/kg dw	11/03/1998	4.5	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	10/29/1998	0.045	sep	664 768	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/03/1998	0.28	mhp	226 555	SW 7740
Silver, AA	<2.3	mg/kg dw	10/27/1998	2.3	sep	485 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Toluene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Dibromofluoromethane (Surr)	102.8	%	10/26/1998	81-129	jap	59	SW 8260A
Toluene-d8 (Surr)	98.2	%	10/26/1998	74-129	jap	59	SW 8260A
4-Bromofluoromethane (Surr)	103.0	%	10/26/1998	70-130	jap	59	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	754	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.065	MX mg/kg dw	10/27/1998	0.023	kdw	754 1818	SW 8310
Acenaphthylene	<0.023	mg/kg dw	10/27/1998	0.023	kdw	754 1818	SW 8310
Anthracene	<0.045	mg/kg dw	10/27/1998	0.045	kdw	754 1818	SW 8310
Benzo (a) anthracene	<0.174	MX mg/kg dw	10/27/1998	0.0029	kdw	754 1818	SW 8310
Benzo (b) fluoranthene	0.125	mg/kg dw	10/27/1998	0.0041	kdw	754 1818	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498408  
NET Job No.: 98.13402

Sample Description: B4 (0-2)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.072	mg/kg dw	10/27/1998	0.0039	kdw	754 1818	SW 8310
Benzo (a) pyrene	0.119	mg/kg dw	10/27/1998	0.0052	kdw	754 1818	SW 8310
Benzo (ghi) perylene	0.148	mg/kg dw	10/27/1998	0.045	kdw	754 1818	SW 8310
Chrysene	0.125	mg/kg dw	10/27/1998	0.03	kdw	754 1818	SW 8310
Dibenzo (a, h) anthracene	0.016	mg/kg dw	10/27/1998	0.007	kdw	754 1818	SW 8310
Fluoranthene	0.253	mg/kg dw	10/27/1998	0.023	kdw	754 1818	SW 8310
Fluorene	<0.027	MX mg/kg dw	10/27/1998	0.023	kdw	754 1818	SW 8310
Indeno (1, 2, 3-cd) pyrene	0.097	mg/kg dw	10/27/1998	0.0097	kdw	754 1818	SW 8310
Naphthalene	<0.028	mg/kg dw	10/27/1998	0.028	kdw	754 1818	SW 8310
Phenanthrene	0.10	mg/kg dw	10/27/1998	0.045	kdw	754 1818	SW 8310
Pyrene	0.225	mg/kg dw	10/27/1998	0.023	kdw	754 1818	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	754 1818	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	373	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/30/1998	0.045	tlb	373 47	SW 8082
PCB-1221	<0.045	mg/kg dw	10/30/1998	0.045	tlb	373 47	SW 8082
PCB-1232	<0.045	mg/kg dw	10/30/1998	0.045	tlb	373 47	SW 8082
PCB-1242	<0.045	mg/kg dw	10/30/1998	0.045	tlb	373 47	SW 8082
PCB-1248	<0.045	mg/kg dw	10/30/1998	0.045	tlb	373 47	SW 8082
PCB-1254	<0.045	mg/kg dw	10/30/1998	0.045	tlb	373 47	SW 8082
PCB-1260	0.093	mg/kg dw	10/30/1998	0.045	tlb	373 47	SW 8082
Decachlorobiphenyl (Surr)	110.0	µ	10/30/1998	NA	tlb	373 47	SW 8082
2,4,5,6-TCMX (Surr)	79.0	µ	10/30/1998	NA	tlb	373 47	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498409  
NET Job No.: 98.13402

Sample Description: B3 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:37  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.11	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	82.2	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	4.9	mg/kg dw	11/02/1998	0.61	mhp	226 668	SW 7060
Barium, ICP	158	mg/kg dw	10/31/1998	1.2	jtt	1158 2175	SW 6010B
Cadmium, ICP	0.85	mg/kg dw	10/31/1998	0.61	jtt	1158 2155	SW 6010B
Chromium, ICP	12	mg/kg dw	10/31/1998	2.4	jtt	1158 2140	SW 6010B
Lead, ICP	21	mg/kg dw	11/03/1998	4.9	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.049	mg/kg dw	10/29/1998	0.049	sep	664 768	SW 7471A
Selenium, GFAA	<0.30	mg/kg dw	11/03/1998	0.30	mhp	226 555	SW 7740
Silver, AA	<2.4	mg/kg dw	10/27/1998	2.4	sep	485 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Toluene	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/26/1998	0.006	jap	59	SW 8260A
Dibromofluoromethane (Surr)	104.4	%	10/26/1998	81-129	jap	59	SW 8260A
Toluene-d8 (Surr)	99.8	%	10/26/1998	74-129	jap	59	SW 8260A
4-Bromofluoromethane (Surr)	106.8	%	10/26/1998	70-130	jap	59	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	754	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.1	mg/kg dw	10/27/1998	0.024	kdw	754 1818	SW 8310
Acenaphthylene	<0.1	mg/kg dw	10/27/1998	0.024	kdw	754 1818	SW 8310
Anthracene	<0.2	mg/kg dw	10/27/1998	0.049	kdw	754 1818	SW 8310
Benzo(a)anthracene	<0.016	mg/kg dw	10/27/1998	0.0032	kdw	754 1818	SW 8310
Benzo(b)fluoranthene	<0.136	mg/kg dw	10/27/1998	0.0044	kdw	754 1818	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498409  
NET Job No. : 98.13402

Sample Description: B3 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:37  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.02	mg/kg dw	10/27/1998	0.0041	kdw	754 1818	SW 8310
Benzo(a)pyrene	<0.123	mg/kg dw	10/27/1998	0.0056	kdw	754 1818	SW 8310
Benzo(ghi)perylene	<0.2	mg/kg dw	10/27/1998	0.049	kdw	754 1818	SW 8310
Chrysene	<0.2	mg/kg dw	10/27/1998	0.04	kdw	754 1818	SW 8310
Dibenzo(a,h)anthracene	<0.04	mg/kg dw	10/27/1998	0.007	kdw	754 1818	SW 8310
Fluoranthene	0.335	mg/kg dw	10/27/1998	0.024	kdw	754 1818	SW 8310
Fluorene	<0.1	mg/kg dw	10/27/1998	0.024	kdw	754 1818	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0658	mg/kg dw	10/27/1998	0.010	kdw	754 1818	SW 8310
Naphthalene	<0.152	mg/kg dw	10/27/1998	0.030	kdw	754 1818	SW 8310
Phenanthrene	<0.2	mg/kg dw	10/27/1998	0.049	kdw	754 1818	SW 8310
Pyrene	0.315	mg/kg dw	10/27/1998	0.024	kdw	754 1818	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	754 1818	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	373	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.049	mg/kg dw	10/30/1998	0.049	tls	373 47	SW 8082
PCB-1221	<0.049	mg/kg dw	10/30/1998	0.049	tls	373 47	SW 8082
PCB-1232	<0.049	mg/kg dw	10/30/1998	0.049	tls	373 47	SW 8082
PCB-1242	<0.049	mg/kg dw	10/30/1998	0.049	tls	373 47	SW 8082
PCB-1248	<0.049	mg/kg dw	10/30/1998	0.049	tls	373 47	SW 8082
PCB-1254	<0.049	mg/kg dw	10/30/1998	0.049	tls	373 47	SW 8082
PCB-1260	0.054	mg/kg dw	10/30/1998	0.049	tls	373 47	SW 8082
Decachlorobiphenyl (Surr)	127.0	%	10/30/1998	NA	tls	373 47	SW 8082
2,4,5,6-TCMX (Surr)	86.0	%	10/30/1998	NA	tls	373 47	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498410  
NET Job No.: 98.13402

Sample Description: B5 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:53  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.73	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	91.3	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	7.1	mg/kg dw	11/02/1998	0.55	mhp	226 668	SW 7060
Barium, ICP	1,530	mg/kg dw	10/31/1998	1.1	jtt	1158 2175	SW 6010B
Cadmium, ICP	1.1	mg/kg dw	10/31/1998	0.55	jtt	1158 2155	SW 6010B
Chromium, ICP	12	mg/kg dw	10/31/1998	2.2	jtt	1158 2140	SW 6010B
Lead, ICP	38	mg/kg dw	11/03/1998	4.4	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.044	mg/kg dw	10/29/1998	0.044	sep	664 768	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/03/1998	0.27	mhp	226 555	SW 7740
Silver, AA	<2.2	mg/kg dw	10/27/1998	2.2	sep	486 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/27/1998	0.005	jap	55	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/27/1998	0.005	jap	55	SW 8260A
Toluene	<0.005	mg/kg dw	10/27/1998	0.005	jap	55	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/27/1998	0.005	jap	55	SW 8260A
Dibromofluoromethane (Surr)	105.8	%	10/27/1998	81-129	jap	55	SW 8260A
Toluene-d8 (Surr)	95.2	%	10/27/1998	74-129	jap	55	SW 8260A
4-Bromofluoromethane (Surr)	98.2	%	10/27/1998	70-130	jap	55	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.161	mg/kg dw	10/26/1998	0.022	kdw	755 1825	SW 8310
Acenaphthylene	<0.1	mg/kg dw	10/26/1998	0.022	kdw	755 1825	SW 8310
Anthracene	<0.2	mg/kg dw	10/26/1998	0.044	kdw	755 1825	SW 8310
Benzo(a)anthracene	<1.0	mg/kg dw	10/26/1998	0.0028	kdw	755 1825	SW 8310
Benzo(b)fluoranthene	<0.02	mg/kg dw	10/26/1998	0.0039	kdw	755 1825	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498410  
NET Job No.: 98.13402

Sample Description: B5 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 10:53  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k) fluoranthene	<0.028	mg/kg dw	10/26/1998	0.0037	kdw	755 1825	SW 8310
Benzo(a) pyrene	<0.099	mg/kg dw	10/26/1998	0.0050	kdw	755 1825	SW 8310
Benzo(ghi)perylene	<0.2	mg/kg dw	10/26/1998	0.044	kdw	755 1825	SW 8310
Chrysene	<0.2	mg/kg dw	10/26/1998	0.03	kdw	755 1825	SW 8310
Dibenzo(a,h)anthracene	<0.049	mg/kg dw	10/26/1998	0.007	kdw	755 1825	SW 8310
Fluoranthene	<0.49	mg/kg dw	10/26/1998	0.022	kdw	755 1825	SW 8310
Fluorene	<0.1	mg/kg dw	10/26/1998	0.022	kdw	755 1825	SW 8310
Indeno(1,2,3-cd)pyrene	<0.049	mg/kg dw	10/26/1998	0.0094	kdw	755 1825	SW 8310
Naphthalene	<0.14	mg/kg dw	10/26/1998	0.027	kdw	755 1825	SW 8310
Phenanthrene	<0.2	mg/kg dw	10/26/1998	0.044	kdw	755 1825	SW 8310
Pyrene	<0.89	mg/kg dw	10/26/1998	0.022	kdw	755 1825	SW 8310
Surr: p-Terphenyl	Diluted out		10/26/1998	43-125	kdw	755 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	373	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1221	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1232	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1242	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1248	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1254	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
PCB-1260	<0.044	mg/kg dw	10/30/1998	0.044	tls	373 47	SW 8082
Decachlorobiphenyl (Surr)	114.0	µ	10/30/1998	NA	tls	373 47	SW 8082
2,4,5,6-TCMX (Surr)	81.0	µ	10/30/1998	NA	tls	373 47	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498411  
NET Job No.: 98.13402

Sample Description: B6 (0-2)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 11:07  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.82	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	88.1	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	5.2	mg/kg dw	11/02/1998	0.57	mhp	226 668	SW 7060
Barium, ICP	885	mg/kg dw	10/31/1998	1.1	jtt	1158 2175	SW 6010B
Cadmium, ICP	<0.57	mg/kg dw	11/02/1998	0.57	jtt	1158 2162	SW 6010B
Chromium, ICP	19	mg/kg dw	10/31/1998	2.3	jtt	1158 2140	SW 6010B
Lead, ICP	20	mg/kg dw	11/03/1998	4.5	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	10/29/1998	0.045	sep	664 768	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/03/1998	0.28	mhp	226 555	SW 7740
Silver, AA	<2.3	mg/kg dw	10/27/1998	2.3	sep	486 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Toluene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Dibromofluoromethane (Surr)	104.0	%	10/27/1998	81-129	jap	55	SW 8260A
Toluene-d8 (Surr)	97.8	%	10/27/1998	74-129	jap	55	SW 8260A
4-Bromofluoromethane (Surr)	101.0	%	10/27/1998	70-130	jap	55	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.1	mg/kg dw	10/26/1998	0.023	kdw	755 1825	SW 8310
Acenaphthylene	<0.1	mg/kg dw	10/26/1998	0.023	kdw	755 1825	SW 8310
Anthracene	<0.2	mg/kg dw	10/26/1998	0.045	kdw	755 1825	SW 8310
Benzo(a)anthracene	<0.36	mg/kg dw	10/26/1998	0.0030	kdw	755 1825	SW 8310
Benzo(b)fluoranthene	0.15	mg/kg dw	10/26/1998	0.0041	kdw	755 1825	SW 8310

ELV : Elevated reporting limits due to matrix interference.





**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498411  
NET Job No.: 98.13402

Sample Description: B6 (0-2)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 11:07  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	0.11	mg/kg dw	10/26/1998	0.0039	kdw	755 1825	SW 8310
Benzo(a)pyrene	0.16	mg/kg dw	10/26/1998	0.0052	kdw	755 1825	SW 8310
Benzo(ghi)perylene	<0.2	mg/kg dw	10/26/1998	0.045	kdw	755 1825	SW 8310
Chrysene	0.60	mg/kg dw	10/26/1998	0.03	kdw	755 1825	SW 8310
Dibenzo(a,h)anthracene	<0.04	mg/kg dw	10/26/1998	0.007	kdw	755 1825	SW 8310
Fluoranthene	0.16	mg/kg dw	10/26/1998	0.023	kdw	755 1825	SW 8310
Fluorene	<0.1	mg/kg dw	10/26/1998	0.023	kdw	755 1825	SW 8310
Indeno(1,2,3-cd)pyrene	0.068	mg/kg dw	10/26/1998	0.0098	kdw	755 1825	SW 8310
Naphthalene	<0.15	mg/kg dw	10/26/1998	0.028	kdw	755 1825	SW 8310
Phenanthrene	<0.2	mg/kg dw	10/26/1998	0.045	kdw	755 1825	SW 8310
Pyrene	0.23	mg/kg dw	10/26/1998	0.023	kdw	755 1825	SW 8310
Surr: p-Terphenyl	Diluted out		10/26/1998	43-125	kdw	755 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1221	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1232	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1242	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1248	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1254	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1260	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
Decachlorobiphenyl (Surr)	90.0	‡	11/04/1998	NA	tls	374 51	SW 8082
2,4,5,6-TCMX (Surr)	76.0	‡	11/04/1998	NA	tls	374 51	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR.  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498412  
NET Job No.: 98.13402

Sample Description: B7 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 11:50  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.30	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	88.5	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	6.7	mg/kg dw	11/03/1998	0.56	mhp	229 669	SW 7060
Barium, ICP	294	mg/kg dw	10/31/1998	1.1	jtt	1158 2175	SW 6010B
Cadmium, ICP	1.4	mg/kg dw	10/31/1998	0.56	jtt	1158 2155	SW 6010B
Chromium, ICP	12	mg/kg dw	10/31/1998	2.3	jtt	1158 2140	SW 6010B
Lead, ICP	16	mg/kg dw	11/03/1998	4.5	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	10/29/1998	0.045	sep	664 768	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/02/1998	0.28	mhp	229 554	SW 7740
Silver, AA	<2.3	mg/kg dw	10/27/1998	2.3	sep	486 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Toluene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Dibromofluoromethane (Surr)	103.2	%	10/27/1998	81-129	jap	55	SW 8260A
Toluene-d8 (Surr)	88.4	%	10/27/1998	74-129	jap	55	SW 8260A
4-Bromofluoromethane (Surr)	90.0	%	10/27/1998	70-130	jap	55	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.58	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Acenaphthylene	<0.58	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Anthracene	<1.1	mg/kg dw	10/27/1998	0.045	kdw	755 1825	SW 8310
Benzo(a)anthracene	<2.3	mg/kg dw	10/27/1998	0.0029	kdw	755 1825	SW 8310
Benzo(b)fluoranthene	0.53	mg/kg dw	10/27/1998	0.0041	kdw	755 1825	SW 8310

ELV : Elevated reporting limits due to matrix interference.



**NATIONAL  
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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498412  
NET Job No.: 98.13402

Sample Description: B7 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 11:50  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.45	mg/kg dw	10/27/1998	0.0038	kdw	755 1825	SW 8310
Benzo(a)pyrene	<0.32	mg/kg dw	10/27/1998	0.0052	kdw	755 1825	SW 8310
Benzo(ghi)perylene	<1.1	mg/kg dw	10/27/1998	0.045	kdw	755 1825	SW 8310
Chrysene	<0.8	mg/kg dw	10/27/1998	0.03	kdw	755 1825	SW 8310
Dibenzo(a,h)anthracene	<0.2	mg/kg dw	10/27/1998	0.007	kdw	755 1825	SW 8310
Fluoranthene	0.97	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Fluorene	<0.58	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Indeno(1,2,3-cd)pyrene	<0.24	mg/kg dw	10/27/1998	0.0097	kdw	755 1825	SW 8310
Naphthalene	<0.71	mg/kg dw	10/27/1998	0.028	kdw	755 1825	SW 8310
Phenanthrene	<1.1	mg/kg dw	10/27/1998	0.045	kdw	755 1825	SW 8310
Pyrene	0.68	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	755 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1221	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1232	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1242	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1248	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1254	<0.045	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
PCB-1260	0.046	mg/kg dw	11/04/1998	0.045	tls	374 51	SW 8082
Decachlorobiphenyl (Surr)	96.0	‡	11/04/1998	NA	tls	374 51	SW 8082
2,4,5,6-TCMX (Surr)	85.0	‡	11/04/1998	NA	tls	374 51	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498413  
NET Job No.: 98.13402

Sample Description: B8 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:10  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.44	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	94.3	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	7.4	mg/kg dw	11/03/1998	0.53	mhp	229 669	SW 7060
Barium, ICP	361	mg/kg dw	10/31/1998	1.1	jtt	1158 2175	SW 6010B
Cadmium, ICP	1.0	mg/kg dw	10/31/1998	0.53	jtt	1158 2155	SW 6010B
Chromium, ICP	13	mg/kg dw	10/31/1998	2.1	jtt	1158 2140	SW 6010B
Lead, ICP	19	mg/kg dw	11/03/1998	4.2	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	10/29/1998	0.042	sep	664 768	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/02/1998	0.27	mhp	229 554	SW 7740
Silver, AA	<2.1	mg/kg dw	10/27/1998	2.1	sep	486 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/27/1998	0.005	jap	55	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/27/1998	0.005	jap	55	SW 8260A
Toluene	<0.005	mg/kg dw	10/27/1998	0.005	jap	55	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/27/1998	0.005	jap	55	SW 8260A
Dibromofluoromethane (Surr)	98.0	%	10/27/1998	81-129	jap	55	SW 8260A
Toluene-d8 (Surr)	93.6	%	10/27/1998	74-129	jap	55	SW 8260A
4-Bromofluoromethane (Surr)	94.0	%	10/27/1998	70-130	jap	55	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.021	mg/kg dw	10/27/1998	0.021	kdw	755 1825	SW 8310
Acenaphthylene	<0.021	mg/kg dw	10/27/1998	0.021	kdw	755 1825	SW 8310
Anthracene	<0.042	mg/kg dw	10/27/1998	0.042	kdw	755 1825	SW 8310
Benzo(a)anthracene	0.110	mg/kg dw	10/27/1998	0.0028	kdw	755 1825	SW 8310
Benzo(b)fluoranthene	0.054	mg/kg dw	10/27/1998	0.0038	kdw	755 1825	SW 8310



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498413  
NET Job No.: 98.13402

Sample Description: B8 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:10  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.041	mg/kg dw	10/27/1998	0.0036	kdw	755 1825	SW 8310
Benzo (a) pyrene	0.059	mg/kg dw	10/27/1998	0.0049	kdw	755 1825	SW 8310
Benzo (ghi) perylene	0.067	mg/kg dw	10/27/1998	0.042	kdw	755 1825	SW 8310
Chrysene	0.070	mg/kg dw	10/27/1998	0.03	kdw	755 1825	SW 8310
Dibenzo (a, h) anthracene	0.008	mg/kg dw	10/27/1998	0.006	kdw	755 1825	SW 8310
Fluoranthene	0.13	mg/kg dw	10/27/1998	0.021	kdw	755 1825	SW 8310
Fluorene	<0.021	mg/kg dw	10/27/1998	0.021	kdw	755 1825	SW 8310
Indeno (1, 2, 3-cd) pyrene	0.040	mg/kg dw	10/27/1998	0.0091	kdw	755 1825	SW 8310
Naphthalene	<0.027	mg/kg dw	10/27/1998	0.027	kdw	755 1825	SW 8310
Phenanthrene	0.064	mg/kg dw	10/27/1998	0.042	kdw	755 1825	SW 8310
Pyrene	0.10	mg/kg dw	10/27/1998	0.021	kdw	755 1825	SW 8310
Surr: p-Terphenyl	Masked		10/27/1998	43-125	kdw	755 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.042	mg/kg dw	11/04/1998	0.042	tls	374 51	SW 8082
PCB-1221	<0.042	mg/kg dw	11/04/1998	0.042	tls	374 51	SW 8082
PCB-1232	<0.042	mg/kg dw	11/04/1998	0.042	tls	374 51	SW 8082
PCB-1242	<0.042	mg/kg dw	11/04/1998	0.042	tls	374 51	SW 8082
PCB-1248	<0.042	mg/kg dw	11/04/1998	0.042	tls	374 51	SW 8082
PCB-1254	<0.042	mg/kg dw	11/04/1998	0.042	tls	374 51	SW 8082
PCB-1260	<0.042	mg/kg dw	11/04/1998	0.042	tls	374 51	SW 8082
Decachlorobiphenyl (Surr)	92.0	‡	11/04/1998	NA	tls	374 51	SW 8082
2,4,5,6-TCMX (Surr)	86.0	‡	11/04/1998	NA	tls	374 51	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498414  
NET Job No.: 98.13402

Sample Description: B9 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:21  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.79	units	10/23/1998	0.10	nwg	179	SW 9045B
Solids, Total	64.8	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	3.2	mg/kg dw	11/03/1998	0.77	mhp	229 669	SW 7060
Barium, ICP	988	mg/kg dw	10/31/1998	1.5	jtt	1158 2175	SW 6010B
Cadmium, ICP	<0.77	mg/kg dw	10/31/1998	0.77	jtt	1158 2155	SW 6010B
Chromium, ICP	6.9	mg/kg dw	10/31/1998	3.1	jtt	1158 2140	SW 6010B
Lead, ICP	23	mg/kg dw	11/03/1998	6.2	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.062	mg/kg dw	10/29/1998	0.062	sep	664 768	SW 7471A
Selenium, GFAA	<0.39	mg/kg dw	11/02/1998	0.39	mhp	229 554	SW 7740
Silver, AA	<3.1	mg/kg dw	10/27/1998	3.1	sep	486 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.008	mg/kg dw	10/28/1998	0.008	jap	62	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	10/28/1998	0.008	jap	62	SW 8260A
Toluene	<0.008	mg/kg dw	10/28/1998	0.008	jap	62	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	10/28/1998	0.008	jap	62	SW 8260A
Dibromofluoromethane (Surr)	88.8	%	10/28/1998	81-129	jap	62	SW 8260A
Toluene-d8 (Surr)	79.2	%	10/28/1998	74-129	jap	62	SW 8260A
4-Bromofluoromethane (Surr)	73.2	%	10/28/1998	70-130	jap	62	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<3.1	mg/kg dw	10/27/1998	0.031	kdw	755 1825	SW 8310
Acenaphthylene	<3.1	mg/kg dw	10/27/1998	0.031	kdw	755 1825	SW 8310
Anthracene	<7.3	mg/kg dw	10/27/1998	0.062	kdw	755 1825	SW 8310
Benzo(a)anthracene	<19	mg/kg dw	10/27/1998	0.0040	kdw	755 1825	SW 8310
Benzo(b)fluoranthene	<1.5	mg/kg dw	10/27/1998	0.0056	kdw	755 1825	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498414  
NET Job No.: 98.13402

Sample Description: B9 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:21  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<6.9	mg/kg dw	10/27/1998	0.0052	kdw	755 1825	SW 8310
Benzo(a)pyrene	<3.4	mg/kg dw	10/27/1998	0.0071	kdw	755 1825	SW 8310
Benzo(ghi)perylene	<6.2	mg/kg dw	10/27/1998	0.062	kdw	755 1825	SW 8310
Chrysene	<5	mg/kg dw	10/27/1998	0.05	kdw	755 1825	SW 8310
Dibenzo(a,h)anthracene	<0.9	mg/kg dw	10/27/1998	0.009	kdw	755 1825	SW 8310
Fluoranthene	<4.2	mg/kg dw	10/27/1998	0.031	kdw	755 1825	SW 8310
Fluorene	<3.1	mg/kg dw	10/27/1998	0.031	kdw	755 1825	SW 8310
Indeno(1,2,3-cd)pyrene	<1.3	mg/kg dw	10/27/1998	0.013	kdw	755 1825	SW 8310
Naphthalene	<3.9	mg/kg dw	10/27/1998	0.039	kdw	755 1825	SW 8310
Phenanthrene	<6.2	mg/kg dw	10/27/1998	0.062	kdw	755 1825	SW 8310
Pyrene	4.8	mg/kg dw	10/27/1998	0.031	kdw	755 1825	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	755 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.062	mg/kg dw	11/04/1998	0.062	tls	374 51	SW 8082
PCB-1221	<0.062	mg/kg dw	11/04/1998	0.062	tls	374 51	SW 8082
PCB-1232	<0.062	mg/kg dw	11/04/1998	0.062	tls	374 51	SW 8082
PCB-1242	<0.062	mg/kg dw	11/04/1998	0.062	tls	374 51	SW 8082
PCB-1248	<0.062	mg/kg dw	11/04/1998	0.062	tls	374 51	SW 8082
PCB-1254	<0.062	mg/kg dw	11/04/1998	0.062	tls	374 51	SW 8082
PCB-1260	1.3	mg/kg dw	11/05/1998	0.062	tls	374 52	SW 8082
Decachlorobiphenyl (Surr)	83.0	%	11/04/1998	NA	tls	374 51	SW 8082
2,4,5,6-TCMX (Surr)	74.0	%	11/04/1998	NA	tls	374 51	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498415  
NET Job No.: 98.13402

Sample Description: B10 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:34  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.21	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	81.4	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	1.4	mg/kg dw	11/03/1998	0.61	mhp	229 669	SW 7060
Barium, ICP	295	mg/kg dw	10/31/1998	1.2	jtt	1158 2175	SW 6010B
Cadmium, ICP	4.5	mg/kg dw	10/31/1998	0.61	jtt	1158 2155	SW 6010B
Chromium, ICP	5.0	mg/kg dw	10/31/1998	2.5	jtt	1158 2140	SW 6010B
Lead, ICP	12	mg/kg dw	11/03/1998	4.9	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.049	mg/kg dw	10/29/1998	0.049	sep	664 768	SW 7471A
Selenium, GFAA	<0.31	mg/kg dw	11/02/1998	0.31	mhp	229 554	SW 7740
Silver, AA	<2.5	mg/kg dw	10/27/1998	2.5	sep	486 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Ethylbenzene	0.053	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Toluene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Xylenes, Total	0.058	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Dibromofluoromethane (Surr)	101.4	%	10/27/1998	81-129	jap	55	SW 8260A
Toluene-d8 (Surr)	88.2	%	10/27/1998	74-129	jap	55	SW 8260A
4-Bromofluoromethane (Surr)	93.2	%	10/27/1998	70-130	jap	55	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<2.8	mg/kg dw	10/27/1998	0.025	kdw	755 1825	SW 8310
Acenaphthylene	<7.0	mg/kg dw	10/27/1998	0.025	kdw	755 1825	SW 8310
Anthracene	<25	mg/kg dw	10/27/1998	0.049	kdw	755 1825	SW 8310
Benzo(a)anthracene	<3.3	mg/kg dw	10/27/1998	0.0032	kdw	755 1825	SW 8310
Benzo(b)fluoranthene	<0.44	mg/kg dw	10/27/1998	0.0044	kdw	755 1825	SW 8310

ELV : Elevated reporting limits due to matrix interference.





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498415  
NET Job No.: 98.13402

Sample Description: B10 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:34  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k) fluoranthene	<1.6	mg/kg dw	10/27/1998	0.0042	kdw	755 1825	SW 8310
Benzo(a) pyrene	<1.6	mg/kg dw	10/27/1998	0.0057	kdw	755 1825	SW 8310
Benzo(ghi)perylene	<4.9	mg/kg dw	10/27/1998	0.049	kdw	755 1825	SW 8310
Chrysene	<4	mg/kg dw	10/27/1998	0.04	kdw	755 1825	SW 8310
Dibenzo(a,h)anthracene	<0.7	mg/kg dw	10/27/1998	0.007	kdw	755 1825	SW 8310
Fluoranthene	<20	mg/kg dw	10/27/1998	0.025	kdw	755 1825	SW 8310
Fluorene	<7.7	mg/kg dw	10/27/1998	0.025	kdw	755 1825	SW 8310
Indeno(1,2,3-cd)pyrene	<1.1	mg/kg dw	10/27/1998	0.011	kdw	755 1825	SW 8310
Naphthalene	<7.4	mg/kg dw	10/27/1998	0.031	kdw	755 1825	SW 8310
Phenanthrene	<7.1	mg/kg dw	10/27/1998	0.049	kdw	755 1825	SW 8310
Pyrene	<21	mg/kg dw	10/27/1998	0.025	kdw	755 1825	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	755 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.049	mg/kg dw	11/04/1998	0.049	tls	374 51	SW 8082
PCB-1221	<0.049	mg/kg dw	11/04/1998	0.049	tls	374 51	SW 8082
PCB-1232	<0.049	mg/kg dw	11/04/1998	0.049	tls	374 51	SW 8082
PCB-1242	<0.049	mg/kg dw	11/04/1998	0.049	tls	374 51	SW 8082
PCB-1248	<0.049	mg/kg dw	11/04/1998	0.049	tls	374 51	SW 8082
PCB-1254	<0.049	mg/kg dw	11/04/1998	0.049	tls	374 51	SW 8082
PCB-1260	<0.049	mg/kg dw	11/04/1998	0.049	tls	374 51	SW 8082
Decachlorobiphenyl (Surr)	87.0	‡	11/04/1998	NA	tls	374 51	SW 8082
2,4,5,6-TCMX (Surr)	93.0	‡	11/04/1998	NA	tls	374 51	SW 8082



**NATIONAL  
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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498416  
NET Job No.: 98.13402

Sample Description: B11 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:41  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.29	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	86.2	%	11/02/1998	0.1	efw	2512	SM 2540
Arsenic, GFAA	3.1	mg/kg dw	11/03/1998	0.58	mhp	229 669	SW 7060
Barium, ICP	476	mg/kg dw	10/31/1998	1.2	jtt	1158 2175	SW 6010B
Cadmium, ICP	0.85	mg/kg dw	10/31/1998	0.58	jtt	1158 2155	SW 6010B
Chromium, ICP	9.9	mg/kg dw	10/31/1998	2.3	jtt	1158 2140	SW 6010B
Lead, ICP	23	mg/kg dw	11/03/1998	4.6	jtt	1158 2385	SW 6010B
Mercury, CVAA	<0.046	mg/kg dw	10/29/1998	0.046	sep	664 768	SW 7471A
Selenium, GFAA	<0.29	mg/kg dw	11/02/1998	0.29	mhp	229 554	SW 7740
Silver, AA	<2.3	mg/kg dw	10/27/1998	2.3	sep	486 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Toluene	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/27/1998	0.006	jap	55	SW 8260A
Dibromofluoromethane (Surr)	98.6	%	10/27/1998	81-129	jap	55	SW 8260A
Toluene-d8 (Surr)	88.2	%	10/27/1998	74-129	jap	55	SW 8260A
4-Bromofluoromethane (Surr)	86.6	%	10/27/1998	70-130	jap	55	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<2.3	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Acenaphthylene	<2.3	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Anthracene	<8.0	mg/kg dw	10/27/1998	0.046	kdw	755 1825	SW 8310
Benzo(a)anthracene	<7.4	mg/kg dw	10/27/1998	0.0030	kdw	755 1825	SW 8310
Benzo(b)fluoranthene	<1.4	mg/kg dw	10/27/1998	0.0042	kdw	755 1825	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498416  
NET Job No.: 98.13402

Sample Description: B11 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:41  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<2.2	mg/kg dw	10/27/1998	0.0039	kdw	755 1825	SW 8310
Benzo (a) pyrene	<1.3	mg/kg dw	10/27/1998	0.0053	kdw	755 1825	SW 8310
Benzo (ghi) perylene	<4.6	mg/kg dw	10/27/1998	0.046	kdw	755 1825	SW 8310
Chrysene	<3	mg/kg dw	10/27/1998	0.03	kdw	755 1825	SW 8310
Dibenzo (a, h) anthracene	<1.1	mg/kg dw	10/27/1998	0.007	kdw	755 1825	SW 8310
Fluoranthene	<5.1	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Fluorene	<2.3	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Indeno (1, 2, 3-cd) pyrene	<1.0	mg/kg dw	10/27/1998	0.010	kdw	755 1825	SW 8310
Naphthalene	<2.9	mg/kg dw	10/27/1998	0.029	kdw	755 1825	SW 8310
Phenanthrene	<4.6	mg/kg dw	10/27/1998	0.046	kdw	755 1825	SW 8310
Pyrene	<2.3	mg/kg dw	10/27/1998	0.023	kdw	755 1825	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	755 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.046	ug/kg dw	11/03/1998	0.046	greg	374 49	SW 8082
PCB-1221	<0.046	ug/kg dw	11/03/1998	0.046	greg	374 49	SW 8082
PCB-1232	<0.046	ug/kg dw	11/03/1998	0.046	greg	374 49	SW 8082
PCB-1242	<0.046	ug/kg dw	11/03/1998	0.046	greg	374 49	SW 8082
PCB-1248	<0.046	ug/kg dw	11/03/1998	0.046	greg	374 49	SW 8082
PCB-1254	<0.046	ug/kg dw	11/03/1998	0.046	greg	374 49	SW 8082
PCB-1260	2.54	mg/kg dw	11/04/1998	0.046	greg	374 50	SW 8082
Decachlorobiphenyl (Surr)	43.9	†	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	68.6	†	11/03/1998	NA	greg	374 49	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR.  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498417  
NET Job No.: 98.13402

Sample Description: B12 (0-2)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:55  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.03	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	90.5	%	11/02/1998	0.1	efw	2512	SM 2540
Arsenic, GFAA	3.5	mg/kg dw	11/03/1998	0.55	mhp	229 669	SW 7060
Barium, ICP	696	mg/kg dw	10/28/1998	1.1	jtt	1159 2162	SW 6010B
Cadmium, ICP	0.93	mg/kg dw	10/31/1998	0.55	jtt	1159 2161	SW 6010B
Chromium, ICP	24	mg/kg dw	10/28/1998	2.2	jtt	1159 2132	SW 6010B
Lead, ICP	100	mg/kg dw	10/28/1998	4.4	jtt	1159 2369	SW 6010B
Mercury, CVAA	0.062	mg/kg dw	10/29/1998	0.044	sep	664 768	SW 7471A
Selenium, GFAA	0.87	mg/kg dw	11/02/1998	0.28	mhp	229 554	SW 7740
Silver, AA	<2.2	mg/kg dw	10/27/1998	2.2	sep	486 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/27/1998	0.006	mjo	56	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/27/1998	0.006	mjo	56	SW 8260A
Toluene	<0.006	mg/kg dw	10/27/1998	0.006	mjo	56	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/27/1998	0.006	mjo	56	SW 8260A
Dibromofluoromethane (Surr)	98.8	%	10/27/1998	81-129	mjo	56	SW 8260A
Toluene-d8 (Surr)	90.2	%	10/27/1998	74-129	mjo	56	SW 8260A
4-Bromofluoromethane (Surr)	81.8	%	10/27/1998	70-130	mjo	56	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<2.2	mg/kg dw	10/27/1998	0.022	kdw	755 1825	SW 8310
Acenaphthylene	<2.2	mg/kg dw	10/27/1998	0.022	kdw	755 1825	SW 8310
Anthracene	4.5	mg/kg dw	10/27/1998	0.044	kdw	755 1825	SW 8310
Benzo(a)anthracene	13	mg/kg dw	10/27/1998	0.0029	kdw	755 1825	SW 8310
Benzo(b)fluoranthene	9.9	mg/kg dw	10/27/1998	0.0040	kdw	755 1825	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498417  
NET Job No.: 98.13402

Sample Description: B12 (0-2)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 12:55  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	6.6	mg/kg dw	10/27/1998	0.0038	kdw	755 1825	SW 8310
Benzo(a)pyrene	12	mg/kg dw	10/27/1998	0.0051	kdw	755 1825	SW 8310
Benzo(ghi)perylene	9.0	mg/kg dw	10/27/1998	0.044	kdw	755 1825	SW 8310
Chrysene	13	mg/kg dw	10/27/1998	0.03	kdw	755 1825	SW 8310
Dibenzo(a,h)anthracene	1.2	mg/kg dw	10/27/1998	0.007	kdw	755 1825	SW 8310
Fluoranthene	30	mg/kg dw	10/27/1998	0.022	kdw	755 1825	SW 8310
Fluorene	2.3	mg/kg dw	10/27/1998	0.022	kdw	755 1825	SW 8310
Indeno(1,2,3-cd)pyrene	7.6	mg/kg dw	10/27/1998	0.0095	kdw	755 1825	SW 8310
Naphthalene	<2.8	mg/kg dw	10/27/1998	0.028	kdw	755 1825	SW 8310
Phenanthrene	17	mg/kg dw	10/27/1998	0.044	kdw	755 1825	SW 8310
Pyrene	23	mg/kg dw	10/27/1998	0.022	kdw	755 1825	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	755 1825	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1221	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1232	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1242	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1248	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1254	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1260	0.074	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	78.7	%	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	11/03/1998	NA	greg	374 49	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498418  
NET Job No.: 98.13402

Sample Description: B13 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:10  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.74	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	88.2	%	11/02/1998	0.1	efw	2512	SM 2540
Arsenic, GFAA	6.6	mg/kg dw	11/03/1998	0.57	mhp	229 669	SW 7060
Barium, ICP	1,130	mg/kg dw	10/28/1998	1.1	jtt	1159 2162	SW 6010B
Cadmium, ICP	6.1	mg/kg dw	10/28/1998	0.57	jtt	1159 2147	SW 6010B
Chromium, ICP	74	mg/kg dw	10/28/1998	2.3	jtt	1159 2132	SW 6010B
Lead, ICP	113	mg/kg dw	10/28/1998	4.5	jtt	1159 2369	SW 6010B
Mercury, CVAA	0.35	mg/kg dw	10/29/1998	0.045	sep	664 768	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/02/1998	0.28	mhp	229 554	SW 7740
Silver, AA	4.3	mg/kg dw	10/30/1998	2.3	sep	487 568	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/27/1998	0.006	mjo	56	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/27/1998	0.006	mjo	56	SW 8260A
Toluene	<0.006	mg/kg dw	10/27/1998	0.006	mjo	56	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/27/1998	0.006	mjo	56	SW 8260A
Dibromofluoromethane (Surr)	84.8	%	10/27/1998	81-129	mjo	56	SW 8260A
Toluene-d8 (Surr)	76.6	%	10/27/1998	74-129	mjo	56	SW 8260A
4-Bromofluoromethane (Surr)	60.4	R %	10/27/1998	70-130	mjo	56	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/21/1998		mmv	755	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<2.3	mg/kg dw	10/27/1998	0.023	kdw	755 1818	SW 8310
Acenaphthylene	<2.3	mg/kg dw	10/27/1998	0.023	kdw	755 1818	SW 8310
Anthracene	<4.5	mg/kg dw	10/27/1998	0.045	kdw	755 1818	SW 8310
Benzo(a)anthracene	<3.6	mg/kg dw	10/27/1998	0.0029	kdw	755 1818	SW 8310
Benzo(b)fluoranthene	2.7	mg/kg dw	10/27/1998	0.0041	kdw	755 1818	SW 8310

ELV : Elevated reporting limits due to matrix interference.  
R : Surrogate recovery verified by re-analysis



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498418  
NET Job No.: 98.13402

Sample Description: B13 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:10  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	1.7	mg/kg dw	10/27/1998	0.0039	kdw	755 1818	SW 8310
Benzo (a) pyrene	3.2	mg/kg dw	10/27/1998	0.0052	kdw	755 1818	SW 8310
Benzo (ghi) perylene	<4.5	mg/kg dw	10/27/1998	0.045	kdw	755 1818	SW 8310
Chrysene	<3	mg/kg dw	10/27/1998	0.03	kdw	755 1818	SW 8310
Dibenzo (a, h) anthracene	<0.7	mg/kg dw	10/27/1998	0.007	kdw	755 1818	SW 8310
Fluoranthene	5.8	mg/kg dw	10/27/1998	0.023	kdw	755 1818	SW 8310
Fluorene	<2.3	mg/kg dw	10/27/1998	0.023	kdw	755 1818	SW 8310
Indeno (1, 2, 3-cd) pyrene	1.7	mg/kg dw	10/27/1998	0.0098	kdw	755 1818	SW 8310
Naphthalene	<2.8	mg/kg dw	10/27/1998	0.028	kdw	755 1818	SW 8310
Phenanthrene	<4.5	mg/kg dw	10/27/1998	0.045	kdw	755 1818	SW 8310
Pyrene	4.9	mg/kg dw	10/27/1998	0.023	kdw	755 1818	SW 8310
Surr: p-Terphenyl	Diluted out		10/27/1998	43-125	kdw	755 1818	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1221	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1232	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1242	0.192	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1248	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1254	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1260	0.212	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	77.1	%	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	79.8	%	11/03/1998	NA	greg	374 49	SW 8082



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ANALYTICAL REPORT

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Westmont, IL 60559

11/05/1998  
Sample No. : 498419  
NET Job No.: 98.13402

Sample Description: B14 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:23  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.22	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	91.3	%	11/02/1998	0.1	efw	2512	SM 2540
Arsenic, GFAA	1.3	mg/kg dw	11/03/1998	0.55	mhp	229 669	SW 7060
Barium, ICP	69	mg/kg dw	10/28/1998	1.1	jtt	1159 2162	SW 6010B
Cadmium, ICP	<0.55	mg/kg dw	10/28/1998	0.55	jtt	1159 2147	SW 6010B
Chromium, ICP	4.8	mg/kg dw	10/28/1998	2.2	jtt	1159 2132	SW 6010B
Lead, ICP	12	mg/kg dw	10/28/1998	4.4	jtt	1159 2369	SW 6010B
Mercury, CVAA	<0.044	mg/kg dw	10/29/1998	0.044	sep	664 768	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/02/1998	0.27	mhp	229 554	SW 7740
Silver, AA	<2.2	mg/kg dw	10/30/1998	2.2	sep	487 568	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/28/1998	0.005	jap	62	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/28/1998	0.005	jap	62	SW 8260A
Toluene	<0.005	mg/kg dw	10/28/1998	0.005	jap	62	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/28/1998	0.005	jap	62	SW 8260A
Dibromofluoromethane (Surr)	99.2	%	10/28/1998	81-129	jap	62	SW 8260A
Toluene-d8 (Surr)	90.2	%	10/28/1998	74-129	jap	62	SW 8260A
4-Bromofluoromethane (Surr)	97.8	%	10/28/1998	70-130	jap	62	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.66	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Acenaphthylene	<0.66	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Anthracene	<1.3	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Benzo(a)anthracene	0.90	mg/kg dw	11/02/1998	0.0028	kdw	764 1824	SW 8310
Benzo(b)fluoranthene	0.68	mg/kg dw	11/02/1998	0.0039	kdw	764 1824	SW 8310

ELV : Elevated reporting limits due to matrix interference.





**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498419  
NET Job No.: 98.13402

Sample Description: B14 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:23  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.43	mg/kg dw	11/02/1998	0.0037	kdw	764 1824	SW 8310
Benzo (a) pyrene	0.68	mg/kg dw	11/02/1998	0.0050	kdw	764 1824	SW 8310
Benzo (ghi) perylene	<1.3	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Chrysene	<0.9	mg/kg dw	11/02/1998	0.03	kdw	764 1824	SW 8310
Dibenzo (a, h) anthracene	<0.2	mg/kg dw	11/02/1998	0.007	kdw	764 1824	SW 8310
Fluoranthene	1.5	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Fluorene	<0.66	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Indeno (1, 2, 3-cd) pyrene	0.64	mg/kg dw	11/02/1998	0.0094	kdw	764 1824	SW 8310
Naphthalene	<0.81	mg/kg dw	11/02/1998	0.027	kdw	764 1824	SW 8310
Phenanthrene	<1.3	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Pyrene	1.3	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Surr: p-Terphenyl	Diluted out		11/02/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1221	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1232	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1242	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1248	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1254	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1260	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	85.4	‡	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	86.4	‡	11/03/1998	NA	greg	374 49	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498420  
NET Job No.: 98.13402

Sample Description: B15 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:41  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.20	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	91.9	%	11/02/1998	0.1	efw	2512	SM 2540
Arsenic, GFAA	2.5	mg/kg dw	11/03/1998	0.54	mhp	229 669	SW 7060
Barium, ICP	163	mg/kg dw	10/28/1998	1.1	jtt	1159 2162	SW 6010B
Cadmium, ICP	<0.54	mg/kg dw	10/28/1998	0.54	jtt	1159 2147	SW 6010B
Chromium, ICP	9.7	mg/kg dw	10/28/1998	2.2	jtt	1159 2132	SW 6010B
Lead, ICP	36	mg/kg dw	10/28/1998	4.4	jtt	1159 2369	SW 6010B
Mercury, CVAA	0.096	mg/kg dw	10/29/1998	0.044	jtt	664 768	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/02/1998	0.27	mhp	229 554	SW 7740
Silver, AA	2.8	mg/kg dw	10/30/1998	2.2	sep	487 568	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/28/1998	0.005	jap	62	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/28/1998	0.005	jap	62	SW 8260A
Toluene	<0.005	mg/kg dw	10/28/1998	0.005	jap	62	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/28/1998	0.005	jap	62	SW 8260A
Dibromofluoromethane (Surr)	84.6	%	10/28/1998	81-129	jap	62	SW 8260A
Toluene-d8 (Surr)	84.0	%	10/28/1998	74-129	jap	62	SW 8260A
4-Bromofluoromethane (Surr)	90.0	%	10/28/1998	70-130	jap	62	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.727	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Acenaphthylene	<0.22	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Anthracene	0.71	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Benzo(a)anthracene	2.4	mg/kg dw	11/02/1998	0.0028	kdw	764 1824	SW 8310
Benzo(b)fluoranthene	2.1	mg/kg dw	11/02/1998	0.0039	kdw	764 1824	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498420  
NET Job No.: 98.13402

Sample Description: B15 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:41  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	1.2	mg/kg dw	11/02/1998	0.0037	kdw	764 1824	SW 8310
Benzo(a)pyrene	2.5	mg/kg dw	11/02/1998	0.0050	kdw	764 1824	SW 8310
Benzo(ghi)perylene	2.0	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Chrysene	2.0	mg/kg dw	11/02/1998	0.03	kdw	764 1824	SW 8310
Dibenzo(a,h)anthracene	<0.21	MX	11/02/1998	0.007	kdw	764 1824	SW 8310
Fluoranthene	6.4	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Fluorene	0.58	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Indeno(1,2,3-cd)pyrene	1.6	mg/kg dw	11/02/1998	0.0094	kdw	764 1824	SW 8310
Naphthalene	<0.27	mg/kg dw	11/02/1998	0.027	kdw	764 1824	SW 8310
Phenanthrene	3.9	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Pyrene	4.9	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Surr: p-Terphenyl	Diluted out		11/02/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1221	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1232	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1242	0.07	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1248	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1254	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1260	0.22	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	78.4	%	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	78.5	%	11/03/1998	NA	greg	374 49	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498421  
NET Job No.: 98.13402

Sample Description: B16 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:30  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.42	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	90.7	%	11/02/1998	0.1	efw	2512	SM 2540
Arsenic, GFAA	3.2	mg/kg dw	11/03/1998	0.55	mhp	229 669	SW 7060
Barium, ICP	1,980	mg/kg dw	10/28/1998	1.1	jtt	1159 2162	SW 6010B
Cadmium, ICP	0.66	mg/kg dw	10/28/1998	0.55	jtt	1159 2147	SW 6010B
Chromium, ICP	20	mg/kg dw	10/28/1998	2.2	jtt	1159 2132	SW 6010B
Lead, ICP	37	mg/kg dw	10/28/1998	4.4	jtt	1159 2369	SW 6010B
Mercury, CVAA	0.73	mg/kg dw	10/29/1998	0.044	sep	664 768	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/02/1998	0.28	mhp	229 554	SW 7740
Silver, AA	3.2	mg/kg dw	10/30/1998	2.2	sep	487 568	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/28/1998	0.006	jap	62	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/28/1998	0.006	jap	62	SW 8260A
Toluene	<0.006	mg/kg dw	10/28/1998	0.006	jap	62	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/28/1998	0.006	jap	62	SW 8260A
Dibromofluoromethane (Surr)	89.6	%	10/28/1998	81-129	jap	62	SW 8260A
Toluene-d8 (Surr)	88.6	%	10/28/1998	74-129	jap	62	SW 8260A
4-Bromofluoromethane (Surr)	98.6	%	10/28/1998	70-130	jap	62	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.66	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Acenaphthylene	<0.66	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Anthracene	<1.3	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Benzo (a) anthracene	<3.3	mg/kg dw	11/02/1998	0.0029	kdw	764 1824	SW 8310
Benzo (b) fluoranthene	2.6	mg/kg dw	11/02/1998	0.0040	kdw	764 1824	SW 8310

ELV : Elevated reporting limits due to matrix interference



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498421  
NET Job No.: 98.13402

Sample Description: B16 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:30  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k) fluoranthene	1.9	mg/kg dw	11/02/1998	0.0037	kdw	764 1824	SW 8310
Benzo(a) pyrene	3.3	mg/kg dw	11/02/1998	0.0051	kdw	764 1824	SW 8310
Benzo(ghi) perylene	2.5	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Chrysene	2.8	mg/kg dw	11/02/1998	0.03	kdw	764 1824	SW 8310
Dibenzo(a,h) anthracene	0.29	mg/kg dw	11/02/1998	0.007	kdw	764 1824	SW 8310
Fluoranthene	7.7	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Fluorene	<0.66	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Indeno(1,2,3-cd) pyrene	2.3	mg/kg dw	11/02/1998	0.0095	kdw	764 1824	SW 8310
Naphthalene	<0.84	mg/kg dw	11/02/1998	0.028	kdw	764 1824	SW 8310
Phenanthrene	4.6	mg/kg dw	11/02/1998	0.044	kdw	764 1824	SW 8310
Pyrene	6.4	mg/kg dw	11/02/1998	0.022	kdw	764 1824	SW 8310
Surr: p-Terphenyl	Diluted out		11/02/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wma	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1221	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1232	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1242	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1248	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1254	<0.044	mg/kg dw	11/03/1998	0.044	greg	374 49	SW 8082
PCB-1260	41.3	mg/kg dw	11/04/1998	0.044	greg	374 50	SW 8082
Decachlorobiphenyl (Surr)	89.7	‡	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	84.9	‡	11/03/1998	NA	greg	374 49	SW 8082



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ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR.  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498422  
NET Job No.: 98.13402

Sample Description: B17 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:58  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.09	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	60.2	%	11/02/1998	0.1	efw	2512	SM 2540
Arsenic, GFAA	11	mg/kg dw	11/03/1998	0.83	mhp	230 669	SW 7060
Barium, ICP	2,660	mg/kg dw	10/28/1998	1.7	jtt	1159 2162	SW 6010B
Cadmium, ICP	2.2	mg/kg dw	10/28/1998	0.83	jtt	1159 2147	SW 6010B
Chromium, ICP	33	mg/kg dw	10/28/1998	3.3	jtt	1159 2132	SW 6010B
Lead, ICP	56	mg/kg dw	10/28/1998	6.6	jtt	1159 2369	SW 6010B
Mercury, CVA	0.33	mg/kg dw	10/29/1998	0.066	sep	664 768	SW 7471A
Selenium, GFAA	0.50	mg/kg dw	11/03/1998	0.42	mhp	230 556	SW 7740
Silver, AA	<3.3	mg/kg dw	10/30/1998	3.3	sep	487 568	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.008	mg/kg dw	10/29/1998	0.008	pll	66	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	10/29/1998	0.008	pll	66	SW 8260A
Toluene	<0.008	mg/kg dw	10/29/1998	0.008	pll	66	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	10/29/1998	0.008	pll	66	SW 8260A
Dibromofluoromethane (Surr)	84.0	%	10/29/1998	81-129	pll	66	SW 8260A
Toluene-d8 (Surr)	86.0	%	10/29/1998	74-129	pll	66	SW 8260A
4-Bromofluoromethane (Surr)	88.0	%	10/29/1998	70-130	pll	66	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.1	mg/kg dw	11/02/1998	0.033	kdw	764 1824	SW 8310
Acenaphthylene	<0.1	mg/kg dw	11/02/1998	0.033	kdw	764 1824	SW 8310
Anthracene	0.43	mg/kg dw	11/02/1998	0.066	kdw	764 1824	SW 8310
Benzo(a)anthracene	<0.91	mg/kg dw	11/02/1998	0.0043	kdw	764 1824	SW 8310
Benzo(b)fluoranthene	0.68	mg/kg dw	11/02/1998	0.0060	kdw	764 1824	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498422  
NET Job No. : 98.13402

Sample Description: B17 (0-1)  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 13:58  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.47	mg/kg dw	11/02/1998	0.0056	kdw	764 1824	SW 8310
Benzo (a) pyrene	1.3	mg/kg dw	11/02/1998	0.0076	kdw	764 1824	SW 8310
Benzo (ghi) perylene	0.71	mg/kg dw	11/02/1998	0.066	kdw	764 1824	SW 8310
Chrysene	0.73	mg/kg dw	11/02/1998	0.05	kdw	764 1824	SW 8310
Dibenzo (a, h) anthracene	0.076	mg/kg dw	11/02/1998	0.01	kdw	764 1824	SW 8310
Fluoranthene	2.2	mg/kg dw	11/02/1998	0.033	kdw	764 1824	SW 8310
Fluorene	0.17	mg/kg dw	11/02/1998	0.033	kdw	764 1824	SW 8310
Indeno (1, 2, 3-cd) pyrene	0.75	mg/kg dw	11/02/1998	0.014	kdw	764 1824	SW 8310
Naphthalene	0.15	mg/kg dw	11/02/1998	0.042	kdw	764 1824	SW 8310
Phenanthrene	1.2	mg/kg dw	11/02/1998	0.066	kdw	764 1824	SW 8310
Pyrene	1.7	mg/kg dw	11/02/1998	0.033	kdw	764 1824	SW 8310
Surr: p-Terphenyl	Diluted out		11/02/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.066	mg/kg dw	11/03/1998	0.066	greg	374 49	SW 8082
PCB-1221	<0.066	mg/kg dw	11/03/1998	0.066	greg	374 49	SW 8082
PCB-1232	<0.066	mg/kg dw	11/03/1998	0.066	greg	374 49	SW 8082
PCB-1242	0.1	mg/kg dw	11/03/1998	0.066	greg	374 49	SW 8082
PCB-1248	<0.066	mg/kg dw	11/03/1998	0.066	greg	374 49	SW 8082
PCB-1254	<0.066	mg/kg dw	11/03/1998	0.066	greg	374 49	SW 8082
PCB-1260	0.76	mg/kg dw	11/04/1998	0.066	greg	374 50	SW 8082
Decachlorobiphenyl (Surr)	82.5	‡	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	78.8	‡	11/03/1998	NA	greg	374 49	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498423  
NET Job No.: 98.13402

Sample Description: B18  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 14:10  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.32	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	88.2	%	11/02/1998	0.1	efw	2512	SM 2540
Arsenic, GFAA	7.6	mg/kg dw	11/03/1998	0.57	mhp	230 669	SW 7060
Barium, ICP	420	mg/kg dw	10/31/1998	1.1	jtt	1160 2175	SW 6010B
Cadmium, ICP	0.74	mg/kg dw	10/31/1998	0.57	jtt	1160 2161	SW 6010B
Chromium, ICP	15	mg/kg dw	10/31/1998	2.3	jtt	1160 2146	SW 6010B
Lead, ICP	22	mg/kg dw	11/03/1998	4.5	jtt	1160 2385	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	10/29/1998	0.045	sep	664 768	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/03/1998	0.28	mhp	230 556	SW 7740
Silver, AA	<2.3	mg/kg dw	10/30/1998	2.3	sep	487 568	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/28/1998	0.006	jap	63	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/28/1998	0.006	jap	63	SW 8260A
Toluene	<0.006	mg/kg dw	10/28/1998	0.006	jap	63	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/28/1998	0.006	jap	63	SW 8260A
Dibromofluoromethane (Surr)	100.0	%	10/28/1998	81-129	jap	63	SW 8260A
Toluene-d8 (Surr)	89.6	%	10/28/1998	74-129	jap	63	SW 8260A
4-Bromofluoromethane (Surr)	95.0	%	10/28/1998	70-130	jap	63	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	0.036	mg/kg dw	11/02/1998	0.023	kdw	764 1824	SW 8310
Acenaphthylene	<0.023	mg/kg dw	11/02/1998	0.023	kdw	764 1824	SW 8310
Anthracene	0.091	mg/kg dw	11/02/1998	0.045	kdw	764 1824	SW 8310
Benzo(a)anthracene	0.090	mg/kg dw	11/02/1998	0.0029	kdw	764 1824	SW 8310
Benzo(b)fluoranthene	0.051	mg/kg dw	11/02/1998	0.0041	kdw	764 1824	SW 8310





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 498423  
NET Job No.: 98.13402

Sample Description: B18  
ComEd-Will County; 1801-023-610

Date Taken: 10/15/1998  
Time Taken: 14:10  
IEPA Cert. No. 100221

Date Received: 10/15/1998  
Time Received: 17:05  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.033	mg/kg dw	11/02/1998	0.0039	kdw	764 1824	SW 8310
Benzo (a) pyrene	0.080	mg/kg dw	11/02/1998	0.0052	kdw	764 1824	SW 8310
Benzo (ghi) perylene	<0.045	mg/kg dw	11/02/1998	0.045	kdw	764 1824	SW 8310
Chrysene	0.061	mg/kg dw	11/02/1998	0.03	kdw	764 1824	SW 8310
Dibenzo (a,h) anthracene	<0.018	MX mg/kg dw	11/02/1998	0.007	kdw	764 1824	SW 8310
Fluoranthene	0.205	mg/kg dw	11/02/1998	0.023	kdw	764 1824	SW 8310
Fluorene	0.052	mg/kg dw	11/02/1998	0.023	kdw	764 1824	SW 8310
Indeno (1,2,3-cd) pyrene	0.040	mg/kg dw	11/02/1998	0.0098	kdw	764 1824	SW 8310
Naphthalene	<0.028	mg/kg dw	11/02/1998	0.028	kdw	764 1824	SW 8310
Phenanthrene	0.22	mg/kg dw	11/02/1998	0.045	kdw	764 1824	SW 8310
Pyrene	0.16	mg/kg dw	11/02/1998	0.023	kdw	764 1824	SW 8310
Surr: p-Terphenyl	119.2	%	11/02/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1221	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1232	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1242	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1248	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1254	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
PCB-1260	<0.045	mg/kg dw	11/03/1998	0.045	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	78.8	%	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	79.5	%	11/03/1998	NA	greg	374 49	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
pH, Non-Aqueous	179	7.00	7.00	100.0
pH, Non-Aqueous	180	7.00	7.00	100.0
Arsenic, GFAA	668	0.0250	0.0262	104.8
Arsenic, GFAA	669	0.0250	0.0250	100.0
Barium, ICP	2162	2.00	2.10	105.0
Barium, ICP	2162	2.00	2.08	104.0
Barium, ICP	2169	2.00	2.05	102.5
Barium, ICP	2175	2.00	2.13	106.5
Barium, ICP	2176	2.00	2.15	107.5
Cadmium, ICP	2147	1.00	1.05	105.0
Cadmium, ICP	2161	1.00	1.03	103.0
Cadmium, ICP	2162	1.00	1.07	107.0
Cadmium, ICP	2169	1.00	0.952	95.2
Chromium, ICP	2132	2.00	2.12	106.0
Chromium, ICP	2146	2.00	2.10	105.0
Lead, ICP	2369	2.00	2.09	104.5
Lead, ICP	2382	2.00	2.04	102.0
Lead, ICP	2385	2.00	1.92	96.0
Mercury, CVAA	768	0.0025	0.00253	101.2
Selenium, GFAA	554	0.0500	0.0508	101.6
Selenium, GFAA	555	0.0500	0.0497	99.4
Selenium, GFAA	556	0.0500	0.0516	103.2
Silver, AA	567	0.50	0.533	106.6
Silver, AA	568	0.500	0.489	97.8
UST VOLATILES NON-AQUEOUS				
Benzene	55	50.0	54.2	108.4
Ethylbenzene	55	50.0	53.2	106.4
Toluene	55	50.0	56.7	113.4
Xylenes, Total	55	150	153	102.0
UST VOLATILES NON-AQUEOUS				
Benzene	56	50.0	55.9	111.8
Ethylbenzene	56	50.0	21.8	43.6
Toluene	56	50.0	54.7	109.4
Xylenes, Total	56	150	151	100.7

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
UST VOLATILES NON-AQUEOUS				
Benzene	59	50.0	51.5	103.0
Ethylbenzene	59	50.0	53.1	106.2
Toluene	59	50.0	48.9	97.8
Xylenes, Total	59	150	161	107.3
UST VOLATILES NON-AQUEOUS				
Benzene	59	50.0	54.0	108.0
Ethylbenzene	59	50.0	56.0	112.0
Toluene	59	50.0	58.0	116.0
Xylenes, Total	59	150	160	106.7
UST VOLATILES NON-AQUEOUS				
Benzene	62	50.0	51.8	103.6
Ethylbenzene	62	50.0	52.0	104.0
Toluene	62	50.0	50.3	100.6
Xylenes, Total	62	150	155	103.3
UST VOLATILES NON-AQUEOUS				
Benzene	63	50.0	49.6	99.2
Ethylbenzene	63	50.0	49.5	99.0
Toluene	63	50.0	48.7	97.4
Xylenes, Total	63	150	147	98.0
UST VOLATILES NON-AQUEOUS				
Benzene	66	50.0	52.0	104.0
Ethylbenzene	66	50.0	52.0	104.0
Toluene	66	50.0	50.0	100.0
Xylenes, Total	66	150	154	102.7
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1810	5000	4,761	95.2
Acenaphthylene	1810	5000	5,073	101.5
Anthracene	1810	5000	5,204	104.1
Benzo(a)anthracene	1810	5000	5,129	102.6
Benzo(b)fluoranthene	1810	5000	4,873	97.5
Benzo(k)fluoranthene	1810	5000	4,954	99.1
Benzo(a)pyrene	1810	5000	4,899	98.0
Benzo(ghi)perylene	1810	5000	5,103	102.1

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Chrysene	1810	5000	5,072	101.4
Dibenzo(a,h)anthracene	1810	5000	4,988	99.8
Fluoranthene	1810	5000	5,038	100.8
Fluorene	1810	5000	4,939	98.8
Indeno(1,2,3-cd)pyrene	1810	5000	5,095	101.9
Naphthalene	1810	5000	4,845	96.9
Phenanthrene	1810	5000	5,062	101.2
Pyrene	1810	5000	4,954	99.1
Surr: p-Terphenyl	1810	5000	4,954	99.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1810	5000	4,766	95.3
Acenaphthylene	1810	5000	5,082	101.6
Anthracene	1810	5000	5,216	104.3
Benzo(a)anthracene	1810	5000	5,159	103.2
Benzo(b)fluoranthene	1810	5000	4,853	97.1
Benzo(k)fluoranthene	1810	5000	5,004	100.1
Benzo(a)pyrene	1810	5000	4,888	97.8
Benzo(ghi)perylene	1810	5000	5,074	101.5
Chrysene	1810	5000	5,085	101.7
Dibenzo(a,h)anthracene	1810	5000	5,028	100.6
Fluoranthene	1810	5000	5,068	101.4
Fluorene	1810	5000	5,006	100.1
Indeno(1,2,3-cd)pyrene	1810	5000	5,082	101.6
Naphthalene	1810	5000	4,725	94.5
Phenanthrene	1810	5000	5,116	102.3
Pyrene	1810	5000	5,030	100.6
Surr: p-Terphenyl	1810	5000	4,964	99.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1818	5000	4,771	95.4
Acenaphthylene	1818	5000	5,103	102.1
Anthracene	1818	5000	5,116	102.3
Benzo(a)anthracene	1818	5000	5,089	101.8
Benzo(b)fluoranthene	1818	5000	4,790	95.8
Benzo(k)fluoranthene	1818	5000	5,268	105.4

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
Benzo (a) pyrene	1818	5000	4,574	91.5
Benzo (ghi) perylene	1818	5000	4,979	99.6
Chrysene	1818	5000	5,042	100.8
Dibenzo (a, h) anthracene	1818	5000	4,907	98.1
Fluoranthene	1818	5000	4,950	99.0
Fluorene	1818	5000	4,821	96.4
Indeno (1, 2, 3-cd) pyrene	1818	5000	5,023	100.5
Naphthalene	1818	5000	4,825	96.5
Phenanthrene	1818	5000	5,034	100.7
Pyrene	1818	5000	4,877	97.5
Surr: p-Terphenyl	1818	5000	4,888	97.8
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1824	5000	4,629	92.6
Acenaphthylene	1824	5000	5,127	102.5
Anthracene	1824	5000	5,201	104.0
Benzo (a) anthracene	1824	5000	4,952	99.0
Benzo (b) fluoranthene	1824	5000	4,900	98.0
Benzo (k) fluoranthene	1824	5000	4,887	97.7
Benzo (a) pyrene	1824	5000	5,066	101.3
Benzo (ghi) perylene	1824	5000	5,018	100.4
Chrysene	1824	5000	4,989	99.8
Dibenzo (a, h) anthracene	1824	5000	5,011	100.2
Fluoranthene	1824	5000	5,039	100.8
Fluorene	1824	5000	4,902	98.0
Indeno (1, 2, 3-cd) pyrene	1824	5000	4,814	96.3
Naphthalene	1824	5000	4,941	98.8
Phenanthrene	1824	5000	4,821	96.4
Pyrene	1824	5000	5,190	103.8
Surr: p-Terphenyl	1824	5000	4,887	97.7
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1825	5000	5,049	101.0
Acenaphthylene	1825	5000	5,067	101.3
Anthracene	1825	5000	5,073	101.5
Benzo (a) anthracene	1825	5000	4,988	99.8

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo(b) fluoranthene	1825	5000	4,862	97.2
Benzo(k) fluoranthene	1825	5000	4,928	98.6
Benzo(a) pyrene	1825	5000	4,915	98.3
Benzo(ghi) perylene	1825	5000	4,843	96.9
Chrysene	1825	5000	5,098	102.0
Dibenzo(a,h)anthracene	1825	5000	4,946	98.9
Fluoranthene	1825	5000	4,977	99.5
Fluorene	1825	5000	4,851	97.0
Indeno(1,2,3-cd)pyrene	1825	5000	4,742	94.8
Naphthalene	1825	5000	5,027	100.5
Phenanthrene	1825	5000	4,898	98.0
Pyrene	1825	5000	5,044	100.9
Surr: p-Terphenyl	1825	5000	4,922	98.4
PCB'S NON-AQUEOUS				
PCB-1016	47	500	491	98.2
PCB-1260	47	500	502	100.4
PCB'S NON-AQUEOUS				
PCB-1016	47	500	464	92.8
PCB-1260	47	500	479	95.8
PCB'S NON-AQUEOUS				
PCB-1016	47	500	474	94.8
PCB-1260	47	500	470	94.0
PCB'S NON-AQUEOUS				
PCB-1016	47	500	464	92.8
PCB-1260	47	500	470	94.0
PCB'S NON-AQUEOUS				
PCB-1016	47	500	475	95.0
PCB-1260	47	500	494	98.8
PCB'S NON-AQUEOUS				
PCB-1016	49	500	464.	92.8
PCB-1260	49	500	448.	89.6
PCB'S NON-AQUEOUS				
PCB-1016	49	500	551.	110.2
PCB-1260	49	500	534.	106.8

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc.	Percent
	Batch	True		
	Number	Conc.	Found	
PCB'S NON-AQUEOUS				
PCB-1016	49	500	549.	109.8
PCB-1260	49	500	553.	110.6
PCB'S NON-AQUEOUS				
PCB-1260	50	500	529.	105.8
PCB'S NON-AQUEOUS				
PCB-1260	50	500	531.	106.2
PCB'S NON-AQUEOUS				
PCB-1016	51	500	477	95.4
PCB-1260	51	500	473	94.6
PCB'S NON-AQUEOUS				
PCB-1016	51	500	501	100.2
PCB-1260	51	500	505	101.0
PCB'S NON-AQUEOUS				
PCB-1016	51	500	496	99.2
PCB-1260	51	500	485	97.0
PCB'S NON-AQUEOUS				
PCB-1260	52	500	483	96.6
PCB'S NON-AQUEOUS				
PCB-1260	52	500	462	92.4

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	226	668	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	229	669	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	230	669	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1159	2161	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1153	2169	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1158	2169	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1160	2175	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1159	2147	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1153	2155	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1158	2155	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1160	2161	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1159	2132	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1153	2140	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1158	2140	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1160	2146	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1159	2366	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1153	2380	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1158	2385	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1160	2385	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	664	768	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	229	553	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	226	555	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	230	556	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	485	567	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	486	567	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	487	568	<2.0	mg/Kg	2.0	SW 7760
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		55	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		55	<0.005	mg/Kg	0.005	SW 8260A

**Advisory Control Limits for Blanks:**

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.







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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
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11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Toluene		55	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		55	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		55	130.6	%	74-134	SW 8260A
Toluene-d8 (Surr)		55	109.4	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		55	107.2	%	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		56	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		56	<0.005	mg/Kg	0.005	SW 8260A
Toluene		56	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		56	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		56	94.6	%	74-134	SW 8260A
Toluene-d8 (Surr)		56	107.6	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		56	91.0	%	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		59	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		59	<0.005	mg/Kg	0.005	SW 8260A
Toluene		59	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		59	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		59	99.8	%	74-134	SW 8260A
Toluene-d8 (Surr)		59	99.6	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		59	107.0	%	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		59	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		59	<0.005	mg/Kg	0.005	SW 8260A
Toluene		59	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		59	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		59	98.4	%	74-134	SW 8260A
Toluene-d8 (Surr)		59	95.4	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		59	95.2	%	64-131	SW 8260A

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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**QUALITY CONTROL REPORT**

**BLANK ANALYSIS**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
UST VOLATILES NON-AQUEOUS						
Benzene		59	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		59	<0.005	mg/Kg	0.005	SW 8260A
Toluene		59	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		59	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		59	98.0	µ	74-134	SW 8260A
Toluene-d8 (Surr)		59	96.2	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		59	92.2	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						
Benzene		62	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		62	<0.005	mg/Kg	0.005	SW 8260A
Toluene		62	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		62	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		62	96.0	µ	74-134	SW 8260A
Toluene-d8 (Surr)		62	95.6	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		62	103.0	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						
Benzene		63	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		63	<0.005	mg/Kg	0.005	SW 8260A
Toluene		63	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		63	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		63	90.8	µ	74-134	SW 8260A
Toluene-d8 (Surr)		63	93.8	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		63	97.8	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						
Benzene		66	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		66	<0.005	mg/Kg	0.005	SW 8260A
Toluene		66	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		66	<0.005	mg/Kg	0.005	SW 8260A

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Dibromofluoromethane (Surr)		66	94.0	‡	74-134	SW 8260A
Toluene-d8 (Surr)		66	96.0	‡	90-134	SW 8260A
4-Bromofluoromethane (Surr)		66	104.0	‡	64-131	SW 8260A
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	754	1806	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	754	1806	<0.020	mg/Kg	0.020	SW 8310
Anthracene	754	1806	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	754	1806	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	754	1806	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	754	1806	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	754	1806	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	754	1806	<0.040	mg/Kg	0.040	SW 8310
Chrysene	754	1806	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	754	1806	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	754	1806	<0.020	mg/Kg	0.020	SW 8310
Fluorene	754	1806	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	754	1806	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	754	1806	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	754	1806	<0.040	mg/Kg	0.040	SW 8310
Pyrene	754	1806	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	754	1806	82.0	‡	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	754	1812	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	754	1812	<0.020	mg/Kg	0.020	SW 8310
Anthracene	754	1812	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	754	1812	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	754	1812	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	754	1812	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	754	1812	<0.0046	mg/Kg	0.0046	SW 8310

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting	Analytical
	Batch	Batch	Analysis			
	Number	Number	Results		Limit	Method
Benzo(ghi)perylene	754	1812	<0.040	mg/Kg	0.040	SW 8310
Chrysene	754	1812	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	754	1812	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	754	1812	<0.020	mg/Kg	0.020	SW 8310
Fluorene	754	1812	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	754	1812	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	754	1812	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	754	1812	<0.040	mg/Kg	0.040	SW 8310
Pyrene	754	1812	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	754	1812	100.0	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						
Acenaphthene	754	1825	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	754	1825	<0.020	mg/Kg	0.020	SW 8310
Anthracene	754	1825	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	754	1825	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	754	1825	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	754	1825	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	754	1825	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	754	1825	<0.040	mg/Kg	0.040	SW 8310
Chrysene	754	1825	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	754	1825	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	754	1825	<0.020	mg/Kg	0.020	SW 8310
Fluorene	754	1825	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	754	1825	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	754	1825	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	754	1825	<0.040	mg/Kg	0.040	SW 8310
Pyrene	754	1825	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	754	1825	90.8	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
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11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Acenaphthene	755	1812	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	755	1812	<0.020	mg/Kg	0.020	SW 8310
Anthracene	755	1812	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	755	1812	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	755	1812	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	755	1812	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	755	1812	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	755	1812	<0.040	mg/Kg	0.040	SW 8310
Chrysene	755	1812	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	755	1812	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	755	1812	<0.020	mg/Kg	0.020	SW 8310
Fluorene	755	1812	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	755	1812	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	755	1812	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	755	1812	<0.040	mg/Kg	0.040	SW 8310
Pyrene	755	1812	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	755	1812	c	ug/L	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	755	1825	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	755	1825	<0.020	mg/Kg	0.020	SW 8310
Anthracene	755	1825	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	755	1825	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	755	1825	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	755	1825	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	755	1825	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	755	1825	<0.040	mg/Kg	0.040	SW 8310
Chrysene	755	1825	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	755	1825	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	755	1825	<0.020	mg/Kg	0.020	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
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11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting Limit	Analytical Method
	Batch Number	Batch Number	Analysis Results			
Fluorene	755	1825	<0.020	mg/Kg	0.020	SW 8310
Indeno (1,2,3-cd) pyrene	755	1825	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	755	1825	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	755	1825	<0.040	mg/Kg	0.040	SW 8310
Pyrene	755	1825	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	755	1825	84.0	µ	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						
Acenaphthene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Anthracene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Benzo (a) anthracene	764	1824	<0.0026	mg/Kg	0.0026	SW 8310
Benzo (b) fluoranthene	764	1824	<0.0036	mg/Kg	0.0036	SW 8310
Benzo (k) fluoranthene	764	1824	<0.0034	mg/Kg	0.0034	SW 8310
Benzo (a) pyrene	764	1824	<0.0046	mg/Kg	0.0046	SW 8310
Benzo (ghi) perylene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Chrysene	764	1824	<0.03	mg/Kg	0.03	SW 8310
Dibenzo (a,h) anthracene	764	1824	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Fluorene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Indeno (1,2,3-cd) pyrene	764	1824	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	764	1824	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Pyrene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	764	1824	80.9	µ	43-125	SW 8310
PCB'S NON-AQUEOUS						
PCB-1016	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	373	46	<0.040	mg/Kg	0.040	SW 8082

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
PCB-1248	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	373	46	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	373	46	91.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	373	46	72.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	374	51	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	374	51	75.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	374	51	65.0	%	NA	SW 8082

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.





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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	226	668	0.0100	0.0110	110.0
Arsenic, GFAA	229	669	0.0100	0.0092	92.0
Arsenic, GFAA	230	669	0.0100	0.0092	92.0
Barium, ICP	1159	2161	5.00	4.90	98.0
Barium, ICP	1153	2169	5.00	5.06	101.2
Barium, ICP	1158	2169	5.00	4.63	92.6
Barium, ICP	1160	2175	5.00	4.91	98.2
Cadmium, ICP	1159	2147	2.50	2.37	94.8
Cadmium, ICP	1153	2155	2.50	2.52	100.8
Cadmium, ICP	1158	2155	2.50	2.22	88.8
Cadmium, ICP	1160	2161	2.50	2.68	107.2
Chromium, ICP	1159	2132	5.00	4.45	89.0
Chromium, ICP	1153	2140	5.00	5.22	104.4
Chromium, ICP	1158	2140	5.00	4.62	92.4
Chromium, ICP	1160	2146	5.00	4.92	98.4
Lead, ICP	1159	2366	50.0	51.4	102.8
Lead, ICP	1153	2380	50.0	52.4	104.8
Lead, ICP	1158	2385	5.00	4.15	83.0
Lead, ICP	1160	2385	5.00	5.00	100.0
Mercury, CVAA	664	768	0.0025	0.00270	108.0
Mercury, CVAA		768	0.0020	0.00224	112.0
Selenium, GFAA	229	553	0.0100	0.0096	96.0
Selenium, GFAA	226	555	0.0100	0.0105	105.0
Selenium, GFAA	230	556	0.0100	0.0105	105.0
Silver, AA	485	567	0.1	0.098	98.0
Silver, AA		567	1.0	0.922	92.2
Silver, AA	486	567	0.1	0.091	91.0
Silver, AA	487	568	0.1	0.110	110.0
UST VOLATILES NON-AQUEOUS					
Benzene		55	20.0	23.7	118.5
Ethylbenzene		55	20.0	24.7	123.5



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Toluene		55	20.0	24.9	124.5
Xylenes, Total		55	60.0	70.6	117.7
Dibromofluoromethane (Surr)		55	50.0	62.3	124.6
Toluene-d8 (Surr)		55	50.0	52.9	105.8
4-Bromofluoromethane (Surr)		55	50.0	50.8	101.6
UST VOLATILES NON-AQUEOUS					
Benzene		56	20.0	21.8	109.0
Ethylbenzene		56	20.0	21.5	107.5
Toluene		56	20.0	23.0	115.0
Xylenes, Total		56	60.0	62.4	104.0
Dibromofluoromethane (Surr)		56	50.0	51.4	102.8
Toluene-d8 (Surr)		56	50.0	55.8	111.6
4-Bromofluoromethane (Surr)		56	50.0	47.2	94.4
UST VOLATILES NON-AQUEOUS					
Benzene		59	20.0	21.1	105.5
Ethylbenzene		59	20.0	22.6	113.0
Toluene		59	20.0	20.7	103.5
Xylenes, Total		59	60.0	65.0	108.3
Dibromofluoromethane (Surr)		59	50.0	48.4	96.8
Toluene-d8 (Surr)		59	50.0	50.8	101.6
4-Bromofluoromethane (Surr)		59	50.0	53.4	106.8
UST VOLATILES NON-AQUEOUS					
Benzene		59	30.6	32.6	106.5
Ethylbenzene		59	30.6	28.7	93.8
Toluene		59	30.6	30.3	99.0
Xylenes, Total		59	91.9	91.8	99.9
Dibromofluoromethane (Surr)		59	50.0	50.5	101.0
Toluene-d8 (Surr)		59	50.0	48.3	96.6
4-Bromofluoromethane (Surr)		59	50.0	49.7	99.4
UST VOLATILES NON-AQUEOUS					
Benzene		59	2,420	3,720	153.7



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Ethylbenzene		59	2,420	4,080	168.6
Toluene		59	2,420	3,760	155.4
Xylenes, Total		59	7,260	12,300	169.4
Dibromofluoromethane (Surr)		59	50.0	49.0	98.0
Toluene-d8 (Surr)		59	50.0	48.6	97.2
4-Bromofluoromethane (Surr)		59	50.0	48.1	96.2
UST VOLATILES NON-AQUEOUS					
Benzene		62	20.0	21.5	107.5
Ethylbenzene		62	20.0	22.2	111.0
Toluene		62	20.0	21.3	106.5
Xylenes, Total		62	60.0	66.8	111.3
Dibromofluoromethane (Surr)		62	50.0	48.4	96.8
Toluene-d8 (Surr)		62	50.0	48.8	97.6
4-Bromofluoromethane (Surr)		62	50.0	50.9	101.8
UST VOLATILES NON-AQUEOUS					
Benzene		63	20.0	21.2	106.0
Ethylbenzene		63	20.0	20.8	104.0
Toluene		63	20.0	20.1	100.5
Xylenes, Total		63	60.0	61.7	102.8
Dibromofluoromethane (Surr)		63	50.0	48.7	97.4
Toluene-d8 (Surr)		63	50.0	48.9	97.8
4-Bromofluoromethane (Surr)		63	50.0	51.5	103.0
UST VOLATILES NON-AQUEOUS					
Benzene		66	20.0	21.0	105.0
Ethylbenzene		66	20.0	23.0	115.0
Toluene		66	20.0	21.0	105.0
Xylenes, Total		66	60.0	66.0	110.0
Dibromofluoromethane (Surr)		66	50.0	48.0	96.0
Toluene-d8 (Surr)		66	50.0	50.0	100.0
4-Bromofluoromethane (Surr)		66	50.0	55.0	110.0
PNA CMPDS - 8310 NONAQUEOUS					



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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Acenaphthene	754	1806	0.033	0.027	81.8
Acenaphthylene	754	1806	0.033	0.030	90.9
Anthracene	754	1806	0.033	0.029	87.9
Benzo (a) anthracene	754	1806	0.033	0.029	87.9
Benzo (b) fluoranthene	754	1806	0.033	0.028	84.8
Benzo (k) fluoranthene	754	1806	0.033	0.031	93.9
Benzo (a) pyrene	754	1806	0.033	0.027	81.8
Benzo (ghi) perylene	754	1806	0.033	0.032	97.0
Chrysene	754	1806	0.033	0.029	87.9
Dibenzo (a, h) anthracene	754	1806	0.033	0.029	87.9
Fluoranthene	754	1806	0.033	0.029	87.9
Fluorene	754	1806	0.033	0.028	84.8
Indeno (1, 2, 3-cd) pyrene	754	1806	0.033	0.030	90.9
Naphthalene	754	1806	0.033	0.025	75.8
Phenanthrene	754	1806	0.033	0.029	87.9
Pyrene	754	1806	0.033	0.028	84.8
Surr: p-Terphenyl	754	1806	2000	1,660	83.0
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	754	1812	0.033	0.031	93.9
Acenaphthylene	754	1812	0.033	0.029	87.9
Anthracene	754	1812	0.033	0.032	97.0
Benzo (a) anthracene	754	1812	0.033	0.030	90.9
Benzo (b) fluoranthene	754	1812	0.033	0.030	90.9
Benzo (k) fluoranthene	754	1812	0.033	0.030	90.9
Benzo (a) pyrene	754	1812	0.033	0.031	93.9
Benzo (ghi) perylene	754	1812	0.033	0.028	84.8
Chrysene	754	1812	0.033	0.032	97.0
Dibenzo (a, h) anthracene	754	1812	0.033	0.030	90.9
Fluoranthene	754	1812	0.033	0.025	75.8
Fluorene	754	1812	0.033	0.033	100.0
Indeno (1, 2, 3-cd) pyrene	754	1812	0.033	0.049	148.5



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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Naphthalene	754	1812	0.033	0.027	81.8
Phenanthrene	754	1812	0.033	0.029	87.9
Pyrene	754	1812	0.033	0.029	87.9
Surr: p-Terphenyl	754	1812	2000	2000	100.0
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	754	1825	0.033	0.029	87.9
Acenaphthylene	754	1825	0.033	0.031	93.9
Anthracene	754	1825	0.033	0.030	90.9
Benzo(a)anthracene	754	1825	0.033	0.032	97.0
Benzo(b)fluoranthene	754	1825	0.033	0.029	87.9
Benzo(k)fluoranthene	754	1825	0.033	0.031	93.9
Benzo(a)pyrene	754	1825	0.033	0.029	87.9
Benzo(ghi)perylene	754	1825	0.033	0.029	87.9
Chrysene	754	1825	0.033	0.032	97.0
Dibenzo(a,h)anthracene	754	1825	0.033	0.028	84.8
Fluoranthene	754	1825	0.033	0.029	87.9
Fluorene	754	1825	0.033	0.028	84.8
Indeno(1,2,3-cd)pyrene	754	1825	0.033	0.027	81.8
Naphthalene	754	1825	0.033	0.027	81.8
Phenanthrene	754	1825	0.033	0.030	90.9
Pyrene	754	1825	0.033	0.029	87.9
Surr: p-Terphenyl	754	1825	2000	1766	88.3
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	755	1812	0.033	0.030	90.9
Acenaphthylene	755	1812	0.033	0.029	87.9
Anthracene	755	1812	0.033	0.032	97.0
Benzo(a)anthracene	755	1812	0.033	0.030	90.9
Benzo(b)fluoranthene	755	1812	0.033	0.030	90.9
Benzo(k)fluoranthene	755	1812	0.033	0.031	93.9
Benzo(a)pyrene	755	1812	0.033	0.032	97.0
Benzo(ghi)perylene	755	1812	0.033	0.029	87.9



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Chrysene	755	1812	0.033	0.037	112.1
Dibenzo (a, h) anthracene	755	1812	0.033	0.030	90.9
Fluoranthene	755	1812	0.033	0.029	87.9
Fluorene	755	1812	0.033	0.041	124.2
Indeno (1, 2, 3-cd) pyrene	755	1812	0.033	0.028	84.8
Naphthalene	755	1812	0.033	0.029	87.9
Phenanthrene	755	1812	0.033	0.026	78.8
Pyrene	755	1812	0.033	0.043	130.3
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	755	1825	0.033	0.029	87.9
Acenaphthylene	755	1825	0.033	0.030	90.9
Anthracene	755	1825	0.033	0.030	90.9
Benzo (a) anthracene	755	1825	0.033	0.031	93.9
Benzo (b) fluoranthene	755	1825	0.033	0.028	84.8
Benzo (k) fluoranthene	755	1825	0.033	0.030	90.9
Benzo (a) pyrene	755	1825	0.033	0.029	87.9
Benzo (ghi) perylene	755	1825	0.033	0.026	78.8
Chrysene	755	1825	0.033	0.031	93.9
Dibenzo (a, h) anthracene	755	1825	0.033	0.028	84.8
Fluoranthene	755	1825	0.033	0.029	87.9
Fluorene	755	1825	0.033	0.030	90.9
Indeno (1, 2, 3-cd) pyrene	755	1825	0.033	0.024	72.7
Naphthalene	755	1825	0.033	0.029	87.9
Phenanthrene	755	1825	0.033	0.028	84.8
Pyrene	755	1825	0.033	0.031	93.9
Surr: p-Terphenyl	755	1825	2000	1,788	89.4
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	764	1824	0.033	0.029	87.9
Acenaphthylene	764	1824	0.033	0.028	84.8
Anthracene	764	1824	0.033	0.028	84.8



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep	Run	True Conc.	Conc. Found	LCS % Recovery
	Batch Number	Batch Number			
Benzo(a)anthracene	764	1824	0.033	0.029	87.9
Benzo(b)fluoranthene	764	1824	0.033	0.029	87.9
Benzo(k)fluoranthene	764	1824	0.033	0.029	87.9
Benzo(a)pyrene	764	1824	0.033	0.030	90.9
Benzo(ghi)perylene	764	1824	0.033	0.029	87.9
Chrysene	764	1824	0.033	0.030	90.9
Dibenzo(a,h)anthracene	764	1824	0.033	0.029	87.9
Fluoranthene	764	1824	0.033	0.029	87.9
Fluorene	764	1824	0.033	0.030	90.9
Indeno(1,2,3-cd)pyrene	764	1824	0.033	0.029	87.9
Naphthalene	764	1824	0.033	0.027	81.8
Phenanthrene	764	1824	0.033	0.029	87.9
Pyrene	764	1824	0.033	0.031	93.9
Surr: p-Terphenyl	764	1824	2000	1,767	88.3
PCB'S NON-AQUEOUS					
PCB-1016	373	46	500	443	88.6
PCB-1260	373	46	500	494	98.8
Decachlorobiphenyl (Surr)	373	46	100	92	92.0
2,4,5,6-TCMX (Surr)	373	46	100	75	75.0
PCB'S NON-AQUEOUS					
PCB-1016	374	51	500	486	97.2
PCB-1260	374	51	500	518	103.6
Decachlorobiphenyl (Surr)	374	51	100	91	91.0
2,4,5,6-TCMX (Surr)	374	51	100	81	81.0



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## QUALITY CONTROL REPORT

### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix					MSD				MS/MSD RPD
	Batch	Batch	Spike	Sample	Spike	Percent	MSD	Spike	Percent			
	Number	Number	Result	Result	Amount	Units	Recovery	Result	Amount	Units	Recovery	
UST VOLATILES NON-AQUEOUS												
Benzene		62	22.2	<0.005	20.0	mg/kg	111.0	23.6	20.0	mg/kg	118.0	6.1
Ethylbenzene		62	23.5	<0.005	20.0	mg/kg	117.5	25.3	20.0	mg/kg	126.5	7.4
Toluene		62	23.5	<0.005	20.0	mg/kg	117.5	24.4	20.0	mg/kg	122.0	3.8
Xylenes, Total		62	68.6	<0.005	60.0	mg/kg	114.3	74.7	60.0	mg/kg	124.5	8.5
UST VOLATILES NON-AQUEOUS												
Benzene		66	21.0	<0.005	20.0	mg/kg	105.0	22.0	20.0	mg/kg	110.0	4.7
Ethylbenzene		66	23.0	<0.005	20.0	mg/kg	115.0	24.0	20.0	mg/kg	120.0	4.3
Toluene		66	28.0	<0.005	20.0	mg/kg	140.0	30.0	20.0	mg/kg	150.0	6.9
Xylenes, Total		66	62.0	<0.005	60.0	mg/kg	103.3	69.0	60.0	mg/kg	115.0	10.7
PNA CMPDS - 8310 NONAQUEOUS												
Acenaphthene	754	1809	3.42	<1.7	3.56	mg/kg	96.1	3.26	3.57	mg/kg	91.3	5.1
Acenaphthylene	754	1809	3.69	<1.7	3.56	mg/kg	103.6	3.46	3.57	mg/kg	97.0	6.5
Anthracene	754	1809	3.77	<3.4	3.56	mg/kg	106.0	3.37	3.57	mg/kg	94.3	11.6
Benzo(a)anthracene	754	1809	3.90	<1.6	3.56	mg/kg	109.6	3.10	3.57	mg/kg	86.8	23.1
Benzo(b)fluoranthene	754	1809	3.41	0.44	3.56	mg/kg	83.4	2.87	3.57	mg/kg	68.2	20.1
Benzo(k)fluoranthene	754	1809	3.38	0.40	3.56	mg/kg	83.7	2.73	3.57	mg/kg	65.5	24.4
Benzo(a)pyrene	754	1809	4.28	<0.65	3.56	mg/kg	120.2	3.52	3.57	mg/kg	98.5	19.7
Benzo(ghi)perylene	754	1809	3.33	<3.4	3.56	mg/kg	93.7	2.54	3.57	mg/kg	71.2	27.3
Chrysene	754	1809	4.09	<2	3.56	mg/kg	115.1	3.43	3.57	mg/kg	96.1	17.9
Dibenzo(a,h)anthracene	754	1809	3.87	<0.5	3.56	mg/kg	108.7	3.19	3.57	mg/kg	89.5	19.3
Fluoranthene	754	1809	4.03	<1.7	3.56	mg/kg	113.3	3.10	3.57	mg/kg	86.8	26.4
Fluorene	754	1809	3.71	<1.7	3.56	mg/kg	104.2	3.37	3.57	mg/kg	94.3	9.9
Indeno(1,2,3-cd)pyrene	754	1809	3.54	<0.74	3.56	mg/kg	99.4	2.82	3.57	mg/kg	79.0	22.9

NOTE: Matrix Spike Samples may not be samples from this job.

#### Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.





**NATIONAL  
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Bartlett Division  
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Tel: (630) 289-3100  
Fax: (630) 289-5445

Rockford Division  
3548 35th Street  
Rockford, IL 61109  
Tel: (815) 874-2171  
Fax: (815) 874-5622  
(800) 807-2877

## QUALITY CONTROL REPORT

### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike						Spike	Amount		
Naphthalene	754	1809	3.93	<2.1	3.56	mg/kg	110.5	3.60	3.57	mg/kg	100.9	9.1
Phenanthrene	754	1809	4.46	<3.4	3.56	mg/kg	125.3	3.86	3.57	mg/kg	108.1	14.7
Pyrene	754	1809	4.30	<1.7	3.56	mg/kg	120.8	3.41	3.57	mg/kg	95.5	23.3

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

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## QUALITY CONTROL REPORT

### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix	Sample Result	Spike Amount	Units	Percent Recovery	MSD		Percent Recovery	MS/MSD RPD	
	Batch Number	Batch Number	Spike Result					MSD Result	Spike Amount			Units
PCB'S NON-AQUEOUS												
PCB-1016	373	46	401	<0.040	500	mg/kg	80.2	419	500	mg/kg	83.8	4.4
PCB-1260	373	46	549	<0.040	500	mg/kg	109.8	545	500	mg/kg	109.0	0.7
PCB'S NON-AQUEOUS												
PCB-1016	373	46	479	<0.040	500	mg/kg	95.8	796	500	mg/kg	159.2	49.6
PCB-1260	373	51	0.224	0.068	0.179	mg/kg	87.4	0.208	0.179	mg/kg	78.4	10.9
PCB'S NON-AQUEOUS												
PCB-1016	374	49	354	<0.045	567	mg/kg	62.4	247	567	mg/kg	43.6	35.5
PCB-1260	374	49	.37	0.212	.189	mg/kg	85.6	.32	.189	mg/kg	55.7	42.3
PCB'S NON-AQUEOUS												
PCB-1016	374	49	463	<0.045	567	mg/kg	81.6	484	567	mg/kg	85.4	4.6
PCB-1260	374	49	480	<0.045	567	mg/kg	84.6	520	567	mg/kg	91.8	8.2

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



NATIONAL ENVIRONMENTAL TESTING, INC.

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Fax: (815) 874-5622  
(800) 807-2877

QUALITY CONTROL REPORT

DUPLICATES

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13402

Mr. Wei-Lin Feng

Analyte	Prep	Run	Original	Duplicate	Units	RPD
	Batch	Batch				
	Number	Number				
pH, Non-Aqueous		179	6.61	6.67	units	0.9
pH, Non-Aqueous		180	8.29	8.30	units	0.1
pH, Non-Aqueous		180	8.44	8.44	units	0.0
Solids, Total		2511	49.4	50.3	%	1.8
Solids, Total		2511	44.6	47.6	%	6.5
Solids, Total		2511	80.4	79.6	%	1.0
Solids, Total		2512	86.2	84.4	%	2.1

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- 
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- 
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.



NET ENVIRONMENTAL TESTING, INC.  
 17111 ON...  
 COMPANY **ENVIRONMENTAL TESTING, INC.**  
 ADDRESS **748 Pasquelli, DR St 124 Westport, IL**  
 PHONE **(630) 871700** FAX **(630) 8505307**  
 PROJECT NAME/LOCATION **ComEd Will City**  
 PROJECT NUMBER **1801023 610**  
 PROJECT MANAGER **Walter Beng / Karen Dolnes**

REPORT TO: **K. Dolnes**  
 INVOICE TO: **ENSR**  
 P.O. NO. \_\_\_\_\_  
 NET QUOTE NO. \_\_\_\_\_

SAMPLED BY: **P. Buckley**  
 (PRINT NAME) \_\_\_\_\_  
 SIGNATURE **P. Buckley**

(PRINT NAME) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_

ANALYSES  
 PH 9045  
 PNA's 8310  
 BTEX 8260  
 PCBs 8081  
 RCRA Metals (Totals)

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	OTHER	# and Type of Containers	
											PH	9045
10/15	1010	B1 (0-1)	S	X							X	X
10/15	1022	B2 (0-3)	S	X							X	X
10/15	1030	B4 (0-2)	S	X							X	X
10/15	1037	B3 (0-1)	S	X							X	X
10/15	1053	B5 (0-1)	S	X							X	X
10/15	1105	B6 (0-2)	S	X							X	X
10/15	1150	B7 (0-1)	S	X							X	X
10/15	1210	B8 (0-1)	S	X							X	X
10/15	1221	B9 (0-1)	S	X							X	X
10/15	1231	B10 (0-1)	S	X							X	X
10/15	1241	B11 (0-1)	S	X							X	X
10/15	1255	B12 (0-2)	S	X							X	X
10/15	1310	B13 (0-1)	S	X							X	X
10/15	1323	B14 (0-1)	S	X							X	X
10/15	1341	B15 (0-1)	S	X							X	X

CONDITION OF SAMPLE: BOTTLES INTACT? YES/NO /NO  
 FIELD FILTERED? YES/NO /NO  
 COG SEALS PRESENT AND INTACT? YES/NO /NO  
 VOLATILES FREE OF HEADSPACE? YES/NO /NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS \_\_\_\_\_

RELINQUISHED BY: **P. Buckley** DATE: **10/15/98** TIME: **1530** RECEIVED BY: **AS** REMARKS: **CG**

METHOD OF SHIPMENT: **NET Pick up**

RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ RECEIVED FOR NET BY: **Mary Pearce**

TEMPERATURE UPON RECEIPT: **0.05°C**  
 Bottles supplied by NET? YES/NO /NO **ON ice**

DATE: \_\_\_\_\_

COMMENTS: **\* B4 - Poss. Limited Smp1**  
**\* B3 - "**  
**\* B5 - "**  
**\* B6 - "**  
**\* B7 - "**  
**\* B8 - Very Limited Smp1**

Which regulations apply: RCRA \_\_\_\_\_ NPDES Wastewater \_\_\_\_\_  
 UST \_\_\_\_\_ Drinking Water \_\_\_\_\_  
 Other \_\_\_\_\_ None \_\_\_\_\_





**NET** ENVIRONMENTAL TESTING, INC.  
 1000 ON...  
 COMPANY UNIVERSITY HEALTH  
 ADDRESS 655R Corp  
 PHONE (630) 887 1700 FAX (630) 880 5307  
 PROJECT NAME/LOCATION ComEd West City  
 PROJECT NUMBER 1801023610  
 PROJECT MANAGER Debra Perry / Karen Stovner

REPORT TO: K. Dolines  
 INVOICE TO: ENR  
 P.O. NO. \_\_\_\_\_  
 NET QUOTE NO. \_\_\_\_\_

MWG13-15\_6030

SAMPLED BY B. Buckley SIGNATURE B. Buckley

(PRINT NAME) \_\_\_\_\_ SIGNATURE \_\_\_\_\_

(PRINT NAME) \_\_\_\_\_ SIGNATURE \_\_\_\_\_

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	OTHER	ANALYSES					
											# and Type of Containers	PH	PNAS	BTEX	PCBS	RCRA Metals (total)
10/15/98	1330	B16 (0-1)	SX								X	X	X	X	X	
10/15	1350	B17 / <del>Sample</del> (0-1)	SX								X	X	X	X	X	
10/15	1410	B18	SX								X	X	X	X	X	

To assist us in selecting the proper method  
 Is this work being conducted for regulatory compliance monitoring? Yes \_\_\_ No \_\_\_  
 Is this work being conducted for regulatory enforcement action? Yes \_\_\_ No \_\_\_  
 Which regulations apply: RCRA \_\_\_ NPDES Wastewater \_\_\_  
 UST \_\_\_ Drinking Water \_\_\_  
 Other \_\_\_ None \_\_\_

COMMENTS

CONDITION OF SAMPLE:	BOTTLES INTACT? (YES/NO)	FIELD FILTERED? (YES/NO)	COC SEALS PRESENT AND INTACT? (YES/NO)	VOLATILES FREE OF HEADSPACE? (YES/NO)	TEMPERATURE UPON RECEIPT: Bottles supplied by NET? (YES/NO)
	YES/NO	YES/NO	YES/NO	YES/NO	0.05°C on ice

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS \_\_\_\_\_

RELINQUISHED BY: B. Buckley DATE: 10/15/98 TIME: 1530 RECEIVED BY: GG DATE: 10-15-98 TIME: 17:05 RECEIVED FOR NET BY: Mary Pearce

METHOD OF SHIPMENT: Big Pickup REMARKS: \_\_\_\_\_





C







**APPENDIX C**

**Monitoring Well Gauging and Survey Data**

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**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Will County Generating Station  
529 East Romeo Road  
Romeoville, Illinois**

---



Operator: BM  
 Method: IP  
 Equipment #: IP #

ComEd Will County Generating Station  
 1801-023-710  
 10/26/98

Project:  
 Project #:  
 Date:

Well ID	TOC Elevation (feet)	Total Depth of Well (feet)	Depth to Water (feet)	Depth to LPHC (feet)	LPHC Thickness (feet)	LPHC Specific Gravity	Corrective Depth to Water (feet)	Corrective Water Elevation (feet)
MW-1	97.46	10.80	7.95	NA	NA	NA	7.95	89.51
MW-2	100.79	10.35	5.40	NA	NA	NA	5.40	95.39
MW-3	96.38	10.00	3.60	NA	NA	NA	3.60	92.78
MW-4	96.75	11.00	8.95	NA	NA	NA	8.95	87.80
MW-5	96.65	11.35	4.00	NA	NA	NA	4.00	92.65

**Note:**  
 TOC elevation is based on an arbitrary 100 foot benchmark.



