

**COMMONWEALTH EDISON COMPANY**

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois**

**ENSR**

**Consulting \* Engineering \* Remediation**

**December 1998**

**File Number 1801-023-410**

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Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois

December 7, 1998

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## 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) Joliet #29 Generating Station, located at 1800 Channahon Road in Joliet, 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. Seventeen 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 6 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, benzo(a)pyrene and benzo(b)fluoranthene were detected in soil samples collected from borings at approximately 2 feet below grade.

Toluene, ethyl benzene, and total xylenes were detected above the IEPA cleanup objectives of in only one surface soil sample (S-2). This sample was collected from the storage area located to the east of the Roof and Yard Runoff Basin. In addition, sample S-2 had an elevated detection limit for benzene, and consequently, there is a possibility that the concentration is actually above the cleanup objective.

Arsenic was detected above the IEPA cleanup objective of 3 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. In addition, lead was detected above the EPA cleanup objective in the surface soil sample collected from the chimney/precipitator area, as well as the groundwater sample collected from the storage area located to the east of the Roof and Yard Runoff Basin.

PCBs were detected above the EPA cleanup objective of 1.0 milligram per kilogram (mg/kg) in one surface soil sample collected adjacent to stained transformers on the east side of the southern portion of the main building.

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 the areas other than the storage area located to the east of the Roof and Yard Runoff Basin. Construction activities in this area of concern would increase the possibility of exposure. Therefore, this pathway would need to allow for protection/prevention for the construction worker scenario.

In addition, based on the depths of the wells the City of Joliet uses to provide potable water to its residents, 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.

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. In addition, based on surface soil sampling results, the storage area located to the east of the Roof and Yard Runoff Basin has been impacted by volatile constituents of concern (benzene, toluene, ethyl benzene, and total xylenes). This area has a greater potential risk for human exposure than the remainder of the facility.

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 300 acre Joliet #29 Generating Station, located at 1800 Channahon Road in Joliet, 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 7 to October 27, 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 17 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 6 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.

### 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 Joliet #29 Generating Station, which took place between October 7 and October 27, 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.

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. **Roof and Yard Runoff Basin.** One pond, which collects surface water runoff, is located on the eastern portion of the facility. One sediment sample (X-1) was collected.
2. **Gasoline Underground Storage Tank.** One 1,500 gallon underground storage tank (UST) is located at the northwest corner of the Roof and Yard Runoff Basin. This UST is used for the storage of gasoline. One soil boring (B-1) was advanced.
3. **Materials Storage Areas.** There are three materials storage areas located at the facility. One storage area is located to the east of the Roof and Yard Runoff Basin. The concern at this storage area was used equipment and parts. One surface soil sample (S-2) was collected and one monitoring well (MW-1) was installed. The second storage area is located to the west of the Roof and Yard Runoff Basin. The primary concern at this storage area was drum storage. One surface soil sample (S-5) was collected. The third storage area is located to the west of the chimneys and precipitators. The primary concern at this storage area was drum storage. One surface soil sample (S-19) was collected.
4. **Ash Disposal Silos.** Two ash disposal silos are located to the north of the Roof and Yard Runoff Basin. These silos are used to store ash prior to having it transported off-site. One surface soil sample (S-1) was collected.
5. **Former Wastewater Treatment Plant.** A former Wastewater Treatment Plant is located on the eastern portion of the facility. Two surface soil samples (S-3 and S-23) were collected.
6. **Ash Settling Ponds.** Three ash settling ponds are located on the northwestern portion of the facility. Two of these ponds are located to the west of the former Wastewater Treatment Plant. One sediment sample (X-2) was collected from the eastern pond and one sediment sample (X-3) was collected from the western pond. In addition, one soil boring (B-3) was advanced and one monitoring well (MW-2) was installed between these two ponds. The third pond is located to the east of the former Wastewater Treatment Plant. One sediment sample (X-4) was collected.

## 2.0 INVESTIGATION METHODS

- 7. Transformers.** Transformers with oil staining were observed throughout the facility. Soil samples were collected in 6 locations with the most significant staining. The first location contains the transformers on the east side of the former Wastewater Treatment Plant. One soil boring (B-4) was advanced and one surface soil sample (S-4) was collected. The second location contains the transformers on the east side of the southern portion of the main building. One surface soil sample (S-6) was collected. The third location contains the transformers on the south side of the eastern portion of the main building. One soil boring (B-6) was advanced and one surface soil sample (S-7) was collected. The fourth location contains the transformers on the south side of the western portion of the main building. One surface soil sample (S-8) was collected. The fifth location contains the transformers on the west side of the main building. One soil boring (B-20) was advanced and two surface soil samples (S-20 and S-21) were collected. The sixth location contains the transformers adjacent to the Ash Disposal Silos. One surface soil sample (S-22) was collected.
- 8. Chimneys/Precipitators.** Two chimney units are located to the north of the main building. Surface staining from the precipitator equipment was observed. Two soil borings (B-9 and B-10) were advanced and five surface soil samples (S-10 through S-14) were collected.
- 9. Switch Yard.** The Switch Yard is located to the north of the main building. One soil boring (B-11) was advanced to the south of the Switch Yard.
- 10. Coal Handling Area.** Coal is received at the facility via overhead conveyors from the Joliet #9 facility located south of the DesPlaines River. The coal is stored at the coal pile at the west end of the facility. Two soil borings were advanced and two monitoring wells were installed adjacent to the coal pile. Soil boring B-17 was advanced and monitoring well MW-3 was installed at the eastern end of the southern side of the coal pile. Soil boring B-18 was advanced and monitoring well MW-4 was installed at the western end of the southern side of the coal pile. Two coal pile runoff ponds are located adjacent to the coal pile. One coal pile runoff pond is located to the southeast of the coal pile and the other coal pile runoff pond is located to the northeast of the coal pile. Sediment sample X-6 was collected at the southeastern pond and sediment sample X-5 was collected at the northeastern pond. In addition, one surface soil sample (S-15) was collected adjacent to the northeastern pond.
- 11. Coal Handling Area Buildings.** These buildings are associated with the transporting of coal and are located to the east of the coal pile. These buildings are located at the southeast end of the coal pile. One soil boring (B-16) was advanced to the south of the southern Drive Tower, and one soil boring (B-15) was advanced to the south of the Breaker House. One surface soil sample (S-17) was collected to the south of the Conveyor House.

12. **Coal Handling Tractor Building.** This building houses and maintains the coal handling tractors, and are used for the storage of various oils and lubricants. This building is located to the west of the Breaker House. One soil boring (B-14) was advanced.

13. **Diesel Aboveground Storage Tanks.** There are three diesel aboveground storage tanks (ASTs) located at the facility. One AST is located adjacent to the east side of the coal pile. This AST is 950,000 gallons in capacity, however, is no longer in use. One soil boring (B-12) was advanced. The second diesel AST is located in the coal handling area and south of the abandoned 950,000 gallon AST. One soil boring (B-13) was advanced and one monitoring well (MW-5) was installed by the western dispenser station and one surface sample (S-16) was collected adjacent to the AST. The third diesel AST is located to the south of the main building. One surface soil sample (S-9) was collected.

14. **Oil/Water Separator.** One oil/water separator is located to the west of the Crib House, which is located to the south of the main building. One soil boring (B-8) was advanced.

15. **Natural Gas Regulator House/Piping.** Natural gas is used at the facility as a supplemental fuel source for the boilers. The natural gas regulator house and natural gas pipes (which are located aboveground) are located to the west of the main building. One soil boring (B-19) was advanced at the natural gas regulator house and one surface soil sample (S-18) was collected adjacent to the piping.

It should be noted that due to heavy concentrations of buried utility lines or other underground obstructions, three planned soil borings (B-2, B-5, and B-7) were not advanced. Surface soil samples were not collected at these locations due to the areas being covered with concrete/asphalt.

## 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**

Six sediment samples (X-1 through X-6) 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-23) 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**

Seventeen soil borings (B-1, B-3, B-4, B-6, and B-8 through B-20) were advanced at the facility. It should be noted that due to heavy concentrations of buried utility lines or other underground obstructions, three planned soil borings (B-2, B-5, and B-7) were not advanced. 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 4 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 37 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. It should be noted that due to the lack of sufficient water within the monitoring wells, groundwater samples could not be collected from MW-4. 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.

### 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 oil was detected at concentrations ranging from 112 milligrams per kilogram (mg/kg) in sample X-4 to 193,000 mg/kg in sample X-1. However, cleanup objectives for TPH have not been established by the IEPA. TPH as gasoline or diesel was not detected above the laboratory method detection limits.

**PNAs.** The analytical results indicated that PNA constituents were detected in the sediment samples collected. However, these concentrations were not above the IEPA cleanup objectives. It should be noted that samples X-1, X-5, and X-6 had elevated detection limits due to matrix interference for benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene. These elevated detection limits are above the cleanup objectives, 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 arsenic was detected at concentrations above the IEPA cleanup objective of 3 mg/kg. Arsenic was detected at concentrations ranging from 3.5 mg/kg in sample X-6 to 12 mg/kg in sample X-3. In addition, sample X-1 had an elevated detection limit due to matrix interference. This elevated detection limit is above the cleanup objective, and consequently, there is a possibility that the concentration is actually above the cleanup objective of 3 mg/kg. 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 7.66 in sample X-1 to 10.47 in sample X-3.

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 toluene, ethyl benzene, and total xylenes were detected in sample S-2 at concentrations above the IEPA cleanup objectives. It should be noted that sample S-2 had an elevated detection limit due to matrix interference. This elevated detection limit is above the cleanup objective for benzene, and consequently, there is a possibility that the concentration is actually above the cleanup objective of 0.03 mg/kg.

**TPH.** The analytical results indicated that TPH as gasoline was detected at a concentration of 136,000 mg/kg in sample S-2, and TPH as diesel was detected at concentrations ranging from 1,170 mg/kg in sample S-9 to 40,500 mg/kg in sample S-16. TPH as oil was detected at concentrations ranging from 489 mg/kg in sample S-5 to 135,000 mg/kg in sample S-14. 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, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, ideno(1,2,3-c,d)pyrene, and naphthalene were detected in samples S-2 and S-5 through S-8 at concentrations above the IEPA cleanup objectives. It should be noted that samples S-2 and S-8 through S-22 had elevated detection limits due to matrix interference. These elevated detection limits are above the cleanup objectives for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, 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 a concentration of 1.3 mg/kg in sample S-6, which is above the IEPA cleanup objective of 1.0 mg/kg.

**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 3.3 mg/kg in sample S-5 and S-21 to 8.9 mg/kg in sample S-10. 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 a concentration of 721 mg/kg in sample S-10.

**pH.** pH values ranged from 6.71 in sample S-12 to 10.09 in sample S-17.

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 4 feet below grade. Fill material, consisting of clay, sand, and gravel, was the primary material encountered above the bedrock. Soil boring logs are included in **Appendix A**.

The PID readings obtained from the soil samples collected ranged from 1.5 ppmv in B-3 (0 to 4 feet below grade) and B-17 (0 to 2 feet below grade) to 120 ppmv in B-13 (0 to 4 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 EPA cleanup objectives.

**PNAs**. The analytical results indicated that benzo(a)pyrene and benzo(b)fluoranthene were detected at concentrations above the EPA cleanup objectives of 0.8 mg/kg and 5 mg/kg, respectively, in B-6. Benzo(a)pyrene was detected at a concentration of 6.8 mg/kg and benzo(b)fluoranthene was detected at a concentration of 6.4 mg/kg. It should be noted that B-6, B-10, B-11, B-13, B-14, and B-16 through B-20 had elevated detection limits due to matrix interference. These elevated detection limits are above the cleanup objectives for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene, and consequently, there is a possibility that the concentrations are actually above the cleanup objectives.

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

**Metals**. The analytical results indicated that arsenic was detected at concentrations above the EPA cleanup objective of 3 mg/kg. Arsenic was detected at concentrations ranging from 3.1 mg/kg in B-13 to 11 mg/kg in B-35. 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 7.20 in B-17 to 9.62 in B-12.

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 10.40 feet in MW-3 to 29.68 feet in MW-2. Groundwater was not detected in monitoring well MW-4. LPHC was not detected in any of the monitoring wells. Based on the gauging data, the apparent groundwater flow direction beneath

the facility has been calculated to be to the south (**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 BTEX constituents were detected in the groundwater samples collected. However, these concentrations were not above the IEPA cleanup objectives.

**PNAs.** The analytical results indicated that PNA constituents were detected in the groundwater samples collected. However, these concentrations were not above the IEPA 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 0.0124 mg/l in MW-1. 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 EPA 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 was the only constituent of concern detected at concentrations above the EPA cleanup objective of 3 mg/kg, at a maximum concentration of 12 mg/kg. In addition, arsenic was detected above the EPA cleanup objective in five out of six sediment samples collected.

Due to matrix interference in sample X-1, X-5, and X-6, benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene had elevated detection limits, which are above the cleanup objectives. Consequently, there is a possibility that the concentrations are actually above the cleanup objectives.

#### 4.1.2 Surface Soil

Arsenic, lead, PCBs, BTEX constituents (toluene, ethyl benzene, and total xylenes) and PNA constituents listed as benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and naphthalene, were the constituents of concern detected at concentrations above the EPA cleanup objectives.

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

- **Materials Storage Buildings.** Storage area located to the east of the Roof and Yard Runoff Basin (S-2) and the storage area located to the west of the Roof and Yard Runoff Basin (S-5).
- **Transformers.** Transformers on the east side of the southern portion of the main building (S-6), transformers on the south side of the eastern portion of the main building (S-7), and transformers on the south side of the western portion of the main building (S-8).

It should be noted that due to matrix interference in samples S-2 and S-8 through S-22, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, 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 storage area located to the east of the Roof and Yard Runoff Basin (S-2), transformers on the south side of the western portion of the main building (S-8), diesel AST located to the south of the main building (S-9), chimneys/precipitators (S-10 through S-14), northeastern coal pile runoff pond (S-15), diesel AST located in the coal handling area (S-16), Conveyor House (S-17), natural gas aboveground piping (S-18), storage area located to the west of the chimney/ precipitators (S-19), transformers on the west side of the main building (S-20 and S-21), and transformers adjacent to the Ash Disposal Silos (S-22).

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

- **Materials Storage Buildings.** Storage area located to the east of the Roof and Yard Runoff Basin (S-2).

It should be noted that due to matrix interference in sample S-2, benzene had an elevated detection limit. Consequently, there is a possibility that the concentration is actually above the cleanup objective. This sample was collected from the storage area located to the east of the Roof and Yard Runoff Basin (S-2).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 8.9 mg/kg in the following locations:

- **Ash Disposal Silos.** The Ash Disposal Silos are located to the north of the Roof and Yard Runoff Basin (S-1).
- **Transformers.** Transformers on the east side of the former Wastewater Treatment Plant (S-4), transformers on the east side of the southern portion of the main building (S-6), transformers on the south side of the eastern portion of the main building (S-7), transformers on the west side of the main building (S-20 and S-21), and transformers adjacent to the Ash Disposal Silos (S-22).
- **Materials Storage Buildings.** Storage area is located to the west of the Roof and Yard Runoff Basin (S-5).
- **Chimneys/Precipitators.** The chimneys and precipitators are located to the north of the main building (S-10 through S-14). It should be noted that lead was also detected above the IEPA cleanup objective of 400 mg/kg in this area (S-10) at a maximum concentration of 721 mg/kg.
- **Coal Handling Area.** The northeastern coal pile runoff pond (S-15).
- **Former Wastewater Treatment Plant.** The former Wastewater Treatment Plant (S-23).

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

- **Transformers.** Transformers east side of the southern portion of the main building (S-6).

#### 4.1.3 Subsurface Soil

Arsenic and PNA constituents listed as 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:

- **Transformers.** Transformers on the south side of the eastern portion of the main building (B-6).

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

- **Gasoline UST.** The gasoline UST system located at the northwest corner of the Roof and Yard Runoff Basin (B-1).
- **Ash Settling Ponds.** The ash settling ponds located to the west of the former Wastewater Treatment Plant (B-3).
- **Transformers.** Transformers on the east side of the former Wastewater Treatment Plant (B-4) and transformers on the south side of the eastern portion of the main building (B-6).
- **Chimneys/Precipitators.** The chimneys and precipitators are located to the north of the main building (B-9 and B-10).
- **Switch Yard.** The Switch Yard located to the north of the main building (B-11).
- **Diesel ASTs.** The diesel AST located in the coal handling area (B-13).
- **Coal Handling Area Buildings.** The southern Drive Tower (B-16).
- **Coal Handling Area.** The eastern end of the southern side of the coal pile (B-17).
- **Natural Gas Regulator House/Piping.** The natural gas regulator house located to the west of the main building (B-19).

#### 4.1.4 Groundwater

Lead was the constituent of concern detected at concentrations above the IEPA cleanup objectives. Lead was detected above the IEPA cleanup objective, at a maximum concentration of 0.0124 mg/l in the following locations:

- **Materials Storage Buildings.** Storage area is located to the east of the Roof and Yard Runoff Basin (MW-1).

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.

## **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. The constituents that were detected at concentrations above the IEPA cleanup objectives (i.e., metals, semi-volatiles, PCBs), are not considered highly volatile. However, the highly volatile constituents (i.e., BTEX, TPH as gasoline), were only detected at concentrations above the IEPA cleanup objectives at the storage area located to the east of the Roof and Yard Runoff Basin.

Based on the relatively low volatility of the detected constituents of concern, this pathway would not likely be an effective exposure pathway in the areas other than the storage area located to the east of the Roof and Yard Runoff Basin. Construction activities in this area of concern would increase the possibility of exposure. Therefore, this pathway would need to allow for protection/prevention for the construction worker scenario.

### **4.2.3 Groundwater Ingestion**

The groundwater ingestion pathway includes groundwater being used as a potable source of water. The City of Joliet receives its potable water via 16 municipal potable water supply wells. These wells were drilled to approximately 1,600 feet below grade, and are cased to

approximately 300 feet below grade. Based on the depths of these wells, 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.

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 or soil inhalation 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).

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



**TABLES**

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

**Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois**

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**MWG13-15\_23325**

Sampling Locations and Analyses Summary

Commonwealth Edison Company  
 Joliet #29 Generating Station  
 1800 Channahon Road  
 Joliet, Illinois

Table 1

Sampling Locations <sup>m</sup>	Sampling Parameters	Sampling Depth (in feet)	Date Collected
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X-1	Roof & Yard Runoff Basin	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
X-2	Ash Settling Ponds	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
X-3	Ash Settling Ponds	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
X-4	Ash Settling Ponds	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
X-5	Coal Handling Area	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
X-6	Coal Handling Area	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98

**Surface Soil Sample Identification**

S-1	Ash Disposal Silos	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-2	Materials Storage Areas	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-3	Former Wastewater Treatment Plant	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-4	Transformers	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-5	Materials Storage Areas	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-6	Transformers	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-7	Transformers	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-8	Transformers	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-9	Diesel ASTs	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-10	Chimneys/Receptacles	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-11	Chimneys/Receptacles	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-12	Chimneys/Receptacles	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-13	Chimneys/Receptacles	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-14	Chimneys/Receptacles	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-15	Coal Handling Area	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-16	Diesel ASTs	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-17	Coal Handling Area Building	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-18	Natural Gas Regulator House/Piping	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-19	Materials Storage Areas	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-20	Transformers	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-21	Transformers	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-22	Transformers	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/07/98
S-23	Former Wastewater Treatment Plant	TPH, BTEX, PNAS, PCBs, RCRA metals, pH	10/08/98

Table 1

## Sampling Locations and Analyses Summary

Commonwealth Edison Company  
Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois

Page 1 of 2

	Sampling Locations	Sampling Parameters	Sampling Depth (in feet)	Date Collected
<b><u>Boring Identification</u></b>				
B-1	Gasoline UST	BTEX, PNAs, PCBs, RCRA metals, pH	0-3	10/08/98
B-3	Ash Settling Ponds	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/08/98
B-4	Transformers	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/08/98
B-6	Transformers	BTEX, PNAs, PCBs, RCRA metals, pH	0-2	10/08/98
B-8	Oil/Water Separator	BTEX, PNAs, PCBs, RCRA metals, pH	0-3	10/08/98
B-9	Chimneys/Precipitators	BTEX, PNAs, PCBs, RCRA metals, pH	0-3	10/09/98
B-10	Chimneys/Precipitators	BTEX, PNAs, PCBs, RCRA metals, pH	0-2	10/09/98
B-11	Switch Yard	BTEX, PNAs, PCBs, RCRA metals, pH	0-2	10/09/98
B-12	Diesel ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-1	10/09/98
B-13	Diesel ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-3	10/08/98
B-14	Coal Handling Tractor Buildin	BTEX, PNAs, PCBs, RCRA metals, pH	0-2	10/08/98
B-15	Coal Handling Area Building	BTEX, PNAs, PCBs, RCRA metals, pH	0-2	10/08/98
B-16	Coal Handling Area Building	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/08/98
B-17	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-2	10/08/98
B-18	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-1	10/08/98
B-19	Natural Gas Regulator House/Piping	BTEX, PNAs, PCBs, RCRA metals, pH	0-1	10/09/98
B-20	Transformers	BTEX, PNAs, PCBs, RCRA metals, pH	0-2	10/09/98
<b><u>Monitoring Well Sample Identification</u></b>				
MW-1	Materials Storage Areas	BTEX, PNAs, PCBs, RCRA metals	NA	10/27/98
MW-2 (B-3)	Ash Settling Ponds	BTEX, PNAs, PCBs, RCRA metals	NA	10/22/98
MW-3 (B-17)	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals	NA	10/22/98
MW-4 (B-18)	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals	NA	not sampled
MW-5 (B-13)	Diesel ASTs	BTEX, PNAs, PCBs, RCRA metals	NA	10/22/98

**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.

Sediment Sampling  
Soil Analytical Results in Milligrams per Kilogram (mg/kg)  
Commonwealth Edison Company - Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois

Parameters	Sample I.D. Lab I.D. Sample Date	X-1 496624 10/7/98	X-2 496628 10/7/98	X-3 496629 10/7/98	X-4 496630 10/7/98	X-5 496637 10/7/98	X-6 496641 10/7/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>								
Benzene		< 0.03	< 0.008	< 0.008	< 0.007	< 0.01	< 0.01	0.03
Toluene		< 0.03	< 0.008	< 0.008	< 0.007	< 0.01	< 0.01	12
Ethyl Benzene		< 0.03	< 0.008	< 0.008	< 0.007	< 0.01	< 0.01	13
Total Xylenes		< 0.03	< 0.008	< 0.008	< 0.007	< 0.01	< 0.01	150
<b>TPH</b>								
Gasoline		< 33,000	< 78	< 76	< 86	< 1,080	< 960	NA <sup>m</sup>
Diesel		< 33,000	< 78	< 76	< 66	< 1,080	< 960	NA
Oil		193,000	< 78	149	112	1,640	9,980	NA
<b>PNAs</b>								
Acenaphthene		< 12	< 0.031	< 0.2	< 0.40	< 0.43	< 0.38	570
Acenaphthylene		< 12	< 0.031	< 0.2	< 0.40	< 0.43	< 0.38	NA
Anthracene		< 24	< 0.063	< 0.3	< 0.80	< 0.86	< 0.77	12,000
Benzof(a)anthracene		< 8.0	0.0077	< 1.5	< 0.37	< 9.7	< 8.1	2
Benzof(a)pyrene		< 2.7	< 0.0072	< 0.15	< 0.092	< 0.30	< 0.63	0.8
Benzof(b)fluoranthene		< 2.1	< 0.0056	< 0.21	0.23	< 0.35	< 0.36	5
Benzof(g,h,i)perylene		< 24	< 0.063	< 0.3	< 0.80	< 0.86	< 0.77	NA
Benzof(k)fluoranthene		< 2.1	< 0.0053	< 0.21	< 0.16	< 0.18	< 0.98	49
Chrysene		< 20	< 0.05	< 0.3	< 0.5	< 0.6	< 0.6	160
Dibenzof(a,h)anthracene		< 3	< 0.009	< 0.05	< 0.1	< 0.1	< 0.1	0.8
Fluoranthene		< 12	< 0.031	< 0.2	< 0.40	< 0.43	< 0.67	4,300
Fluorene		< 12	< 0.031	< 0.2	< 0.40	< 0.43	< 0.38	560
Indeno(1,2,3-c,d)pyrene		< 5.1	< 0.013	< 0.08	< 0.17	< 0.19	< 1.2	8
Naphthalene		< 15	< 0.039	< 0.2	< 0.50	< 0.54	< 0.48	84
Phenanthrene		< 24	< 0.063	< 0.3	< 0.80	< 0.86	< 0.77	NA
Pyrene		< 12	< 0.031	< 0.2	< 0.40	< 0.43	0.88	4,200
<b>RCRA Metals<sup>m</sup></b>								
Arsenic		< 8.0	6.9	12	8.4	< 2.6	3.5	3
Barium		800	2,500	2,740	1,460	1,510	883	14,000
Cadmium		< 3.3	< 0.78	1.5	1.2	< 1.1	< 0.96	200
Chromium		35	19	30	24	10	14	420
Lead		45	42	40	33	9.5	31	400
Mercury		< 0.27	< 0.063	0.075	0.17	< 0.086	0.098	61
Selenium		< 1.7	< 0.39	0.86	0.37	< 0.54	< 0.48	1,000
Silver		< 13	< 3.1	< 3.0	< 2.7	< 4.3	< 3.8	1,000
Total PCBs		< 0.53	< 0.063	< 0.061	< 0.053	< 0.086	< 0.077	1
pH		7.66	10.40	10.47	9.24	8.10	7.96	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>m</sup> NA indicates not applicable, cleanup objectives have not been established for these parameters.

Surface Soil Sampling  
Soil Analytical Results in Milligrams per Kilogram (mg/kg)  
Commonwealth Edison Company - Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois

Parameters	Sample I.D. Lab I.D. Sample Date	S-1 496631 10/7/98	S-2 496625 10/7/98	S-3 496627 10/7/98	S-4 496626 10/7/98	S-5 496623 10/7/98	S-6 496633 10/7/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>								
Benzene		< 0.005	< 11	< 0.005	< 0.006	< 0.006	< 0.008	0.03
Toluene		< 0.005	57	< 0.005	< 0.006	< 0.006	< 0.008	12
Ethyl Benzene		< 0.005	37	< 0.005	< 0.006	< 0.006	< 0.008	13
Total Xylenes		< 0.005	442	< 0.005	< 0.006	< 0.006	< 0.008	150
<b>TPH</b>								
Gasoline		< 5,400	136,000	< 540	< 5,700	< 314	< 20,000	NA <sup>(1)</sup>
Diesel		< 5,400	< 5,670	1,400	< 5,700	< 314	< 20,000	NA
Oil		15,100	< 5,670	9,830	13,600	489	33,000	NA
<b>PNAs</b>								
Acenaphthene		< 0.97	< 10	< 0.76	< 2.0	< 1.8	< 2.8	570
Acenaphthylene		< 0.97	< 10	< 0.76	< 2.0	< 1.8	< 2.8	NA
Anthracene		< 1.9	< 79	< 1.5	< 4.1	< 3.5	< 5.7	12,000
Benzo(a)anthracene		1.2	< 7.6	1.5	< 0.65	7.4	16	2
Benzo(a)pyrene		< 0.23	< 2.4	0.55	< 0.46	4.3	6.3	0.8
Benzo(b)fluoranthene		0.67	< 1.8	0.57	< 0.36	5	7.2	5
Benzo(g,h,i)perylene		< 1.9	< 20	< 1.5	< 4.1	4	6.8	NA
Benzo(k)fluoranthene		< 0.16	< 1.7	0.33	< 0.35	2.5	12	49
Chrysene		< 1	< 11	< 1	< 3	5.4	8	160
Dibenzo(a,h)anthracene		< 0.3	< 3	< 0.2	< 0.8	< 0.5	< 0.8	0.8
Fluoranthene		1.1	< 87	1.2	< 2.0	11	27	4,300
Fluorene		< 0.97	< 68	< 0.76	< 2.0	< 1.8	4.7	560
Indeno(1,2,3-c,d)pyrene		< 0.42	< 4.4	< 0.32	< 0.87	3.1	5.7	8
Naphthalene		< 1.2	363	< 0.95	< 2.5	< 2.3	< 3.5	84
Phenanthrene		< 1.9	< 52	< 1.5	< 4.1	4.3	17	NA
Pyrene		1.2	< 10	1	< 2.0	9	20	4,200
<b>RCRA Metals<sup>(2)</sup></b>								
Arsenic		3.4	2	3	5.5	3.3	5.5	3
Barium		301	110	14	193	213	1,130	14,000
Cadmium		< 0.54	< 0.57	1.6	1.4	1.4	31	200
Chromium		30	5.2	7.6	12	10	68	420
Lead		22	8.7	27	55	75	251	400
Mercury		0.072	1.5	0.13	0.25	< 0.050	0.16	61
Selenium		< 0.27	0.33	0.28	< 0.28	0.35	0.58	1,000
Silver		< 2.2	< 2.3	< 2.2	< 2.3	< 2.5	< 3.1	1,000
Total PCBs		< 0.043	< 0.091	< 0.043	< 0.045	< 0.050	1.3	1
pH		8.62	8.37	8.34	8.90	8.62	7.79	NA

Surface Soil Sampling  
Soil Analytical Results in Milligrams per Kilogram (mg/kg)  
Commonwealth Edison Company - Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois

Parameters	Sample I.D. Lab I.D. Sample Date	S-7 496634 10/7/98	S-8 496635 10/7/98	S-9 496636 10/7/98	S-10 496966 10/7/98	S-11 496967 10/7/98	S-12 496968 10/7/98	IEPA Soil Cleanup Objectives
<b>BTX</b>								
Benzene		< 0.006	< 0.007	< 0.005	< 0.006	< 0.006	< 0.005	0.03
Toluene		< 0.006	< 0.007	< 0.005	< 0.006	< 0.006	< 0.005	12
Ethyl Benzene		< 0.006	< 0.007	< 0.005	< 0.006	< 0.006	< 0.005	13
Total Xylenes		< 0.006	< 0.007	< 0.005	< 0.006	< 0.006	< 0.005	150
<b>TPH</b>								
Gasoline		< 2,800	< 6,900	< 530	< 5,600	< 5,700	< 5,400	NA
Diesel		< 2,800	< 6,900	1,170	< 5,600	< 5,700	< 5,400	NA
Oil		9,090	128,000	< 530	105,000	63,400	87,100	NA
<b>PNAs</b>								
Acenaphthene		< 22	< 4.1	< 1.1	< 2.5	< 2.3	< 4.3	570
Acenaphthylene		< 22	< 4.1	< 1.1	< 2.5	< 2.3	< 4.3	NA
Anthracene		155	< 8.3	< 2.1	< 5.0	< 4.5	< 8.6	12,000
Benzol(a)anthracene		244	< 17	< 2.2	< 2.8	< 4.8	< 3.7	2
Benzol(b)pyrene		200	6.3	< 0.57	< 0.57	< 0.52	< 0.99	0.8
Benzol(b)fluoranthene		222	5.4	< 0.57	< 0.45	< 0.41	1.5	5
Benzol(g,h,i)perylene		155	< 8.3	< 2.1	< 5.0	< 4.5	< 8.6	NA
Benzol(k)fluoranthene		100	< 3.0	< 0.34	< 0.42	< 0.39	0.92	49
Chrysene		211	< 6	< 2	< 3	< 3	< 6	160
Dibenzol(a,h)anthracene		34	< 1	< 0.3	< 0.8	< 0.7	< 1	0.8
Fluoranthene		543	11	< 1.1	< 2.5	< 2.3	< 4.3	4,300
Fluorene		64	< 4.1	< 1.1	< 2.5	< 2.3	< 4.3	560
Indeno(1,2,3-c,d)pyrene		126	4.3	< 0.46	< 1.1	< 0.97	< 1.8	8
Naphthalene		34	< 5.2	< 1.3	< 3.2	< 2.8	< 5.4	84
Phenanthrene		421	< 8.3	< 2.1	< 5.0	< 4.5	< 8.6	NA
Pyrene		410	15	< 1.1	< 2.5	< 2.3	< 4.3	4,200
<b>RCRA Metals</b>								
Arsenic		3.4	2.6	3	8.9	5.5	4.7	3
Barium		110	592	181	1,350	555	892	14,000
Cadmium		1.6	5.6	< 0.53	2.1	1.6	9.9	200
Chromium		8.4	13	8	23	11	29	420
Lead		18	37	35	721	110	366	400
Mercury		0.13	< 0.055	< 0.043	0.18	0.08	0.19	61
Selenium		0.31	< 0.34	0.31	0.71	0.46	0.37	1,000
Silver		< 2.2	< 2.8	< 2.1	< 2.3	< 2.3	< 2.2	1,000
Total PCBs		0.2	0.58	< 0.043	< 0.045	0.37	< 0.043	1
pH		9.22	7.70	8.86	7.95	7.58	6.71	NA

Surface Soil Sampling  
 Soil Analytical Results in Milligrams per Kilogram (mg/kg)  
 Commonwealth Edison Company - Joliet #29 Generating Station  
 1800 Channahon Road  
 Joliet, Illinois

Parameters	Sample I.D. Lab I.D. Sample Date	S-13 496969 10/7/98	S-14 496970 10/7/98	S-15 496638 10/7/98	S-16 496639 10/7/98	S-17 496640 10/7/98	S-18 496644 10/7/98	IEPA Soil Cleanup Objectives
BTEX								
Benzene		< 0.007	< 0.006	< 0.006	< 0.006	< 0.01	< 0.006	0.03
Toluene		< 0.007	< 0.006	< 0.006	< 0.006	< 0.01	< 0.006	12
Ethyl Benzene		< 0.007	< 0.006	< 0.006	< 0.006	< 0.01	< 0.006	13
Total Xylenes		< 0.007	< 0.006	< 0.006	< 0.006	< 0.01	< 0.006	150
TPH								
Gasoline		< 6,700	< 12,000	< 61	< 6,100	< 1,200	< 560	NA
Diesel		< 6,700	< 12,000	< 61	40,500	< 1,200	< 560	NA
Oil		76,000	135,000	522	< 6,100	6,950	743	NA
PNAs								
Acenaphthene		< 2.7	< 3.0	< 0.24	< 2.5	< 1.2	< 0.23	570
Acenaphthylene		< 2.7	< 3.0	< 0.24	< 2.5	< 1.2	< 0.23	NA
Anthracene		< 5.3	< 5.9	< 0.49	< 4.9	< 2.5	< 0.45	12,000
Benzo(a)anthracene		< 6.4	< 4.3	< 2.8	< 34	< 18	< 2.6	2
Benzo(a)pyrene		< 0.61	< 0.68	< 0.30	< 0.57	< 2.4	< 0.18	0.8
Benzo(b)fluoranthene		0.92	< 0.53	< 0.41	< 1.8	< 4.0	< 0.20	5
Benzo(g,h,i)perylene		< 5.3	< 5.9	< 0.49	< 4.9	< 2.5	< 0.45	NA
Benzo(k)fluoranthene		0.69	< 0.50	< 0.27	< 0.42	< 3.0	< 0.33	49
Chrysene		< 4	< 5	0.41	< 4	2	< 0.3	160
Dibenzo(a,h)anthracene		< 0.8	< 0.9	< 0.07	< 0.7	< 2.1	< 0.087	0.8
Fluoranthene		< 2.7	< 3.0	< 0.64	< 23	< 2.7	< 0.23	4,300
Fluorene		< 2.7	< 3.0	< 0.24	5.5	< 1.2	< 0.23	560
Indeno(1,2,3-c,d)pyrene		< 1.1	< 1.2	< 0.10	< 1.1	< 7.7	< 0.54	8
Naphthalene		< 3.3	< 3.7	< 0.30	< 3.1	< 1.5	< 0.28	84
Phenanthrene		< 5.3	< 5.9	< 0.49	< 4.9	< 2.5	< 0.45	NA
Pyrene		< 2.7	< 3.0	0.49	< 23	3.2	< 0.23	4,200
RCRA Metals								
Arsenic		6.9	4.8	6.9	2.7	< 3.0	2.1	3
Barium		933	1,350	328	221	819	158	14,000
Cadmium		2.7	2.2	0.74	2	2.1	< 0.56	200
Chromium		19	20	8.6	4.4	8.9	3.4	420
Lead		187	283	23	14	82	6.9	400
Mercury		< 0.053	0.18	< 0.049	< 0.049	< 0.099	< 0.045	61
Selenium		0.4	0.71	< 0.30	0.32	< 0.62	< 0.28	1,000
Silver		< 2.7	< 2.5	< 2.4	< 2.5	< 5.0	< 2.3	1,000
Total PCBs		0.17	0.17	< 0.049	< 0.049	0.14	< 0.045	1
pH		8.13	7.27	7.88	7.85	10.09	8.42	NA

Surface Soil Sampling  
Soil Analytical Results in Milligrams per Kilogram (mg/kg)  
Commonwealth Edison Company - Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois

Parameters	Sample I.D. Lab I.D. Sample Date	S-19 496645 10/7/98	S-20 496642 10/7/98	S-21 496643 10/7/98	S-22 496632 10/7/98	S-23 496974 10/8/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>							
Benzene		< 0.006	< 0.007	< 0.005	< 0.006	< 0.01	0.03
Toluene		< 0.006	< 0.007	< 0.005	< 0.006	< 0.01	12
Ethyl Benzene		< 0.006	< 0.007	< 0.005	< 0.006	< 0.01	13
Total Xylenes		< 0.006	< 0.007	< 0.005	< 0.006	< 0.01	150
<b>TPH</b>							
Gasoline		< 6,200	< 720	< 5,500	< 5,800	< 96	NA
Diesel		< 6,200	< 720	< 5,500	< 5,800	< 96	NA
Oil		77,500	1,420	104,000	32,500	< 96	NA
<b>PNAs</b>							
Acenaphthene		< 2.7	< 0.1	< 0.66	< 10	< 0.038	570
Acenaphthylene		< 2.7	< 0.1	< 0.66	< 10	< 0.038	NA
Anthracene		< 5.4	< 0.3	< 1.3	< 21	< 0.077	12,000
Benzol(a)anthracene		< 17	< 4.1	< 2.1	< 1.4	< 0.023	2
Benzol(a)pyrene		< 0.63	< 0.099	< 0.34	< 2.4	< 0.0088	0.8
Benzol(b)fluoranthene		< 0.49	< 0.03	< 0.12	< 1.9	< 0.0069	5
Benzol(g,h,i)perylene		< 5.4	< 0.3	< 1.3	< 21	< 0.077	NA
Benzol(k)fluoranthene		< 0.46	< 0.042	< 0.11	< 1.7	0.0067	49
Chrysene		< 4	< 0.3	< 1	< 12	< 0.06	160
Dibenzol(a,h)anthracene		< 0.9	< 0.17	< 0.2	< 3	< 0.01	0.8
Fluoranthene		< 2.7	< 0.1	< 0.66	< 10	< 0.038	4,300
Fluorene		< 2.7	< 0.1	< 0.66	< 10	< 0.038	560
Indeno(1,2,3-c,d)pyrene		< 1.2	< 0.06	< 0.29	< 4.5	< 0.017	8
Naphthalene		< 3.4	< 0.1	< 0.82	< 13	< 0.048	84
Phenanthrene		< 5.4	< 0.3	< 1.3	< 21	< 0.077	NA
Pyrene		< 2.7	< 0.1	< 0.66	< 10	< 0.038	4,200
<b>RCRA Metals</b>							
Arsenic		2.6	5.4	3.3	5.5	4.2	3
Barium		517	638	186	592	110	14,000
Cadmium		0.62	1	0.72	0.74	2.3	200
Chromium		11	5.8	23	60	6.3	420
Lead		23	13	15	32	16	400
Mercury		< 0.049	0.064	< 0.044	0.063	< 0.077	61
Selenium		< 1.5	< 0.36	< 0.27	0.36	< 0.48	1,000
Silver		< 2.5	< 2.9	< 2.2	< 2.3	< 3.8	1,000
Total PCBs		< 0.049	< 0.058	< 0.44	< 0.046	< 0.077	1
pH		7.85	7.66	8.13	8.10	9.04	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>(\*)</sup> NA indicates not applicable, cleanup objectives have not been established for these parameters.



Table 4  
 Subsurface Soil Sampling  
 Soil Analytical Results in Milligrams per Kilogram (mg/kg)  
 Commonwealth Edison Company - Joliet #29 Generating Station  
 1800 Channahon Road  
 Joliet, Illinois

Parameters	Sample I.D. Lab I.D.	B-1 Sample Date Sample Depth (feet)	B-3 Sample Date Sample Depth (feet)	B-4 Sample Date Sample Depth (feet)	B-6 Sample Date Sample Depth (feet)	B-8 Sample Date Sample Depth (feet)	IEPA Soil Cleanup Objectives
<b>BTEX</b>							
Benzene	496972	10/8/98 0-3	496975	10/8/98 0-4	496977	10/8/98 0-2	0.03
Toluene		< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	12
Ethyl Benzene		< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	13
Total Xylenes		< 0.005	< 0.006	0.01	< 0.005	< 0.006	150
<b>PNAs</b>							
Acenaphthene		< 0.1	< 0.023	< 2.2	< 2.0	< 0.1	570
Acenaphthylene		< 0.1	< 0.023	< 2.2	< 2.0	< 0.1	NA
Anthracene		< 0.2	< 0.045	< 4.4	< 4.0	< 0.2	12,000
Benzo(a)anthracene		0.48	< 0.065	< 0.99	< 9.0	< 0.46	2
Benzo(a)pyrene		0.55	< 0.0052	0.73	6.8	< 0.11	0.8
Benzo(b)fluoranthene		0.45	0.021	0.5	6.4	0.14	5
Benzo(g,h,i)perylene		0.68	< 0.045	< 4.4	5.8	< 0.2	NA
Benzo(k)fluoranthene		0.29	< 0.034	< 0.37	4	< 0.088	49
Chrysene		0.44	< 0.03	< 3	7.2	< 0.2	160
Dibenzo(a,h)anthracene		0.086	< 0.007	< 0.7	0.8	< 0.03	0.8
Fluoranthene		0.55	< 0.11	< 2.2	13	0.44	4,300
Fluorene		< 0.1	< 0.060	< 2.2	< 2.0	< 0.1	560
Indeno(1,2,3-c,d)pyrene		0.45	< 0.0097	< 0.95	5.3	0.063	8
Naphthalene		< 0.1	0.29	< 2.8	< 2.4	< 0.1	84
Phenanthrene		0.23	0.18	< 4.4	5	0.32	NA
Pyrene		0.51	< 0.19	< 2.2	11	0.26	4,200
<b>RCRA Metals<sup>m</sup></b>							
Arsenic		8.8	11	8	7.1	2.9	3
Barium		242	169	132	209	237	14,000
Cadmium		8	1.7	1.4	2.7	3.9	200
Chromium		89	43	19	38	7.4	420
Lead		100	34	32	54	12	400
Mercury		0.68	< 0.045	0.068	0.13	0.16	61
Selenium		0.31	0.4	0.36	0.49	< 0.28	1,000
Silver		2.6	< 2.3	< 2.2	< 2.2	< 2.3	1,000
<b>Total PCBs</b>		0.15	< 0.045	< 0.044	0.36	< 0.045	1
pH		8.56	8.52	7.85	9.57	8.37	NA

Table 4  
Subsurface Soil Sampling  
Soil Analytical Results in Milligrams per Kilogram (mg/kg)  
Commonwealth Edison Company - Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois

Parameters	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	IEPA Soil Cleanup Objectives
	Lab I.D.	Lab I.D.	Lab I.D.	Lab I.D.	Lab I.D.	Lab I.D.	Lab I.D.	
	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	
	Sample Depth (feet)	Sample Depth (feet)	Sample Depth (feet)	Sample Depth (feet)	Sample Depth (feet)	Sample Depth (feet)	Sample Depth (feet)	
<b>BTEX</b>	B-9 497460 10/9/98 0-3	B-10 497459 10/9/98 0-2	B-11 497458 10/9/98 0-2	B-12 497456 10/9/98 0-1	B-13 496971 10/8/98 0-3	B-14 497454 10/8/98 0-2		
Benzene	< 0.005	< 0.007	< 0.006	< 0.006	< 0.005	< 0.007	0.03	
Toluene	< 0.005	< 0.007	< 0.006	< 0.006	< 0.005	< 0.007	12	
Ethyl Benzene	< 0.005	< 0.007	< 0.006	< 0.006	< 0.005	< 0.007	13	
Total Xylenes	< 0.005	< 0.007	< 0.006	< 0.006	< 0.005	< 0.007	150	
<b>PNAs</b>								
Acenaphthene	< 1.7	< 1.9	< 1.6	< 0.14	< 2.1	< 0.42	570	
Acenaphthylene	< 1.7	< 1.9	< 1.6	< 0.17	< 2.1	< 0.27	NA	
Anthracene	< 3.4	< 3.7	< 3.2	< 0.2	< 27	< 3.4	12,000	
Benzof(a)anthracene	< 1.6	< 5.3	< 2.4	< 0.78	< 7.1	< 9.3	2	
Benzof(a)pyrene	< 0.85	< 0.79	< 0.37	< 0.16	< 1.6	< 0.18	0.8	
Benzof(b)fluoranthene	0.44	< 0.52	< 0.59	< 0.17	< 3.3	< 0.16	5	
Benzof(g,h,i)perylene	< 3.4	< 3.7	< 3.2	< 0.2	< 4.3	< 0.55	NA	
Benzof(k)fluoranthene	0.4	< 0.32	< 0.27	< 0.29	< 3.6	< 0.16	49	
Chrysene	< 2	< 2.8	< 2.4	< 0.2	< 3	< 0.4	160	
Dibenzof(a,h)anthracene	< 0.5	< 0.56	< 0.48	< 0.083	< 0.6	< 0.08	0.8	
Fluoranthene	< 1.7	< 2.3	< 1.6	< 0.1	< 7.3	< 2.6	4,300	
Fluorene	< 1.7	< 1.9	< 1.6	< 0.125	3.1	< 0.27	560	
Indeno(1,2,3-c,d)pyrene	< 0.74	< 0.77	< 0.69	< 0.28	< 3.2	< 0.12	8	
Naphthalene	< 2.1	< 2.3	< 2.0	< 0.16	5.8	< 0.34	84	
Phenanthrene	< 3.4	< 3.7	< 3.2	< 0.2	< 4.3	< 0.55	NA	
Pyrene	< 1.7	< 1.9	< 1.6	0.277	< 3.6	< 0.37	4,200	
<b>RCSRA Metals</b>								
Arsenic	5.6	6	3.2	2.4	3.1	1.9	3	
Barium	332	1,080	2,070	240	321	423	14,000	
Cadmium	1.3	7.9	< 0.58	< 0.60	< 0.54	0.82	200	
Chromium	20	33	14	4.9	4.5	6.3	420	
Lead	86	373	24	9.8	9.4	7.2	400	
Mercury	0.2	0.13	< 0.046	< 0.048	< 0.043	0.084	61	
Selenium	0.44	0.56	0.31	< 0.30	< 0.27	< 0.34	1,000	
Silver	< 2.1	< 2.7	< 2.3	< 2.4	< 2.1	< 2.7	1,000	
Total PCBs	0.113	0.24	< 0.046	< 0.048	< 0.043	< 0.055	1	
pH	9.44	8.67	9.62	8.65	8.67	8.01	NA	

**Table 4**  
**Subsurface Soil Sampling**  
**Soil Analytical Results In Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Joliet #29 Generating Station**  
**1800 Channahon Road**  
**Joliet, Illinois**

Parameters	B-15 Lab I.D. Sample Date Sample Depth (feet)	B-16 497451 10/8/98 0-4	B-17 497452 10/8/98 0-2	B-18 497450 10/8/98 0-1	B-19 497457 10/9/98 0-1	B-20 497455 10/9/98 0-2	EPA Soil Cleanup Objectives
<b>BTEX</b>							
Benzene	< 0.005	< 0.006	< 0.006	< 0.007	< 0.008	< 0.006	0.03
Toluene	< 0.005	< 0.006	< 0.006	< 0.007	< 0.008	< 0.006	12
Ethyl Benzene	< 0.005	0.018	< 0.006	< 0.007	< 0.008	< 0.006	13
Total Xylenes	< 0.005		< 0.006	< 0.007	< 0.008	< 0.006	150
<b>PNAs</b>							
Acenaphthene	< 0.1	< 4.9	< 0.24	< 0.84	< 2.4	< 0.530	570
Acenaphthylene	< 0.1	< 4.9	< 0.24	< 0.84	< 2.4	< 0.333	NA
Anthracene	< 0.2	< 9.8	< 1.4	< 6.0	< 4.9	< 3.04	12,000
Benzo(a)anthracene	< 0.71	< 18	< 2.2	< 6.4	< 12	< 9.71	2
Benzo(a)pyrene	< 0.073	< 8.3	< 0.31	< 0.67	< 0.76	< 0.073	0.8
Benzo(b)fluoranthene	< 0.22	< 13	< 0.098	< 0.31	< 0.49	0.3	5
Benzo(g,h,i)perylene	< 0.2	< 9.8	< 0.47	< 1.7	< 4.9	< 0.46	NA
Benzo(k)fluoranthene	< 0.026	< 16	< 0.43	< 1.1	< 1.7	0.2	49
Chrysene	< 0.2	7.7	< 0.4	< 1	< 3.6	0.39	160
Dibenzo(a,h)anthracene	< 0.03	< 1	< 0.07	< 0.3	< 0.7	< 0.22	0.8
Fluoranthene	< 0.1	< 4.9	< 0.38	< 3.9	< 3.0	4.7	4,300
Fluorene	< 0.1	< 4.9	< 0.24	< 0.84	< 2.4	< 0.527	560
Indeno(1,2,3-c,d)pyrene	< 0.04	< 2.1	< 0.10	< 0.36	< 1.7	0.32	8
Naphthalene	< 0.1	< 6.1	< 0.30	1.5	< 3.0	< 0.43	84
Phenanthrene	< 0.2	< 9.8	0.81	2.1	< 4.9	1.4	NA
Pyrene	< 0.1	8.7	0.31	< 6.7	< 2.4	2.7	4,200
<b>RCRA Metals</b>							
Arsenic	2.5	3.7	5.2	2.2	3.2	2.8	3
Barium	100	982	449	656	912	312	14,000
Cadmium	< 0.54	0.98	< 0.59	1.8	7.1	< 0.58	200
Chromium	4.2	12	6.7	17	9	10	420
Lead	9.7	32	15	18	30	41	400
Mercury *	< 0.043	0.21	0.057	0.092	0.071	0.047	61
Selenium	< 0.27	< 0.31	< 0.30	< 0.35	< 0.38	< 0.29	1,000
Silver	< 2.2	< 2.5	< 2.4	< 2.8	< 3.0	< 2.3	1,000
<b>Total PCBs</b>	< 0.043	0.05	< 0.047	0.059	< 0.061	< 0.046	1
pH	8.60	7.37	7.20	7.91	7.64	8.25	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.

\* NA indicates not applicable, cleanup objectives have not been established for these parameters.

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

**Table 6**  
**Groundwater Sampling**  
**Groundwater Analytical Results in Milligrams per Liter (mg/l)**  
**Commonwealth Edison Company - Joliet #29 Generating Station**  
**1800 Channahon Road**  
**Joliet, Illinois**

Parameters	Sample I.D. Lab I.D. Sample Date	MW-1 500229 10/27/98	MW-2 (B-3) 499561 10/22/98	MW-3 (B-17) 499562 10/22/98	MW-5 (B-13) 499563 10/22/98	IEPA Groundwater (Class I) Cleanup Objectives
<b>BTEX</b>						
Benzene		< 0.001	< 0.001	< 0.001	< 0.001	0.005
Toluene		0.0018	< 0.001	< 0.001	< 0.001	1.0
Ethyl Benzene		< 0.001	< 0.001	< 0.001	< 0.001	0.7
Total Xylenes		0.0029	< 0.001	< 0.001	< 0.001	10.0
<b>PNAs</b>						
Acenaphthene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.42
Acenaphthylene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	NA <sup>(1)</sup>
Anthracene		< 0.0036	< 0.0005	< 0.0005	< 0.0005	2.1
Benz(a)anthracene		< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00013
Benz(a)pyrene		< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.0002
Benz(b)fluoranthene		< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00018
Benz(g,h,i)perylene		< 0.00076	< 0.00076	< 0.00076	< 0.00076	NA
Benz(k)fluoranthene		< 0.00017	< 0.00017	< 0.00017	< 0.00017	0.00017
Chrysene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0016
Dibenz(a,h)anthracene		< 0.00030	< 0.00030	< 0.00030	< 0.00030	0.0003
Fluoranthene		< 0.0028	< 0.0005	< 0.0005	< 0.0005	0.28
Fluorene		0.0012	< 0.0005	< 0.0005	< 0.0005	0.28
Indeno(1,2,3-c,d)pyrene		< 0.00043	< 0.00043	< 0.00043	< 0.00043	0.00043
Naphthalene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.025
Phenanthrene		< 0.0014	< 0.0010	< 0.0010	< 0.0010	NA
Pyrene		< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.21
<b>RCRA Metals</b>						
Arsenic		< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.05
Barium		0.139	0.057	0.102	0.062	2.0
Cadmium		< 0.010	< 0.010	< 0.010	< 0.010	0.005
Chromium		< 0.040	< 0.040	< 0.040	< 0.040	0.1
Lead		0.0124	< 0.0050	< 0.0050	< 0.0050	0.0075
Mercury		< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.002
Selenium		0.0055	< 0.0050	< 0.0050	< 0.0050	0.05
Silver		< 0.040	< 0.040	< 0.040	< 0.040	0.05
<b>Total PCBs</b>		< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005
<b>pH</b>		7.26	7.18	6.73	7.20	NA
<b>Specific Conductivity (mc)</b>		0.210	149.3	133.2	119.2	NA
<b>Temperature (C)</b>		14.0	12.6	18.4	13.7	NA

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

**FIGURES**

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

**Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois**

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**MWG13-15\_23337**



COMMONWEALTH EDISON COMPANY  
JOLIET, ILLINOIS  
JOLIET GENERATING STATION #29  
1800 CHANNAHON ROAD  
JOLIET, ILLINOIS

SITE LOCATION MAP

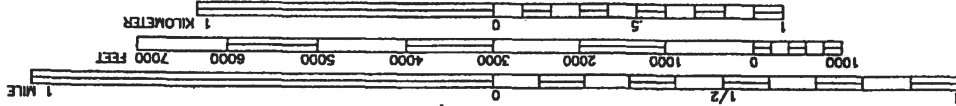
U.S.G.S.  
ELWOOD, CHANNAHON,  
PLAINFIELD & JOLIET, IL



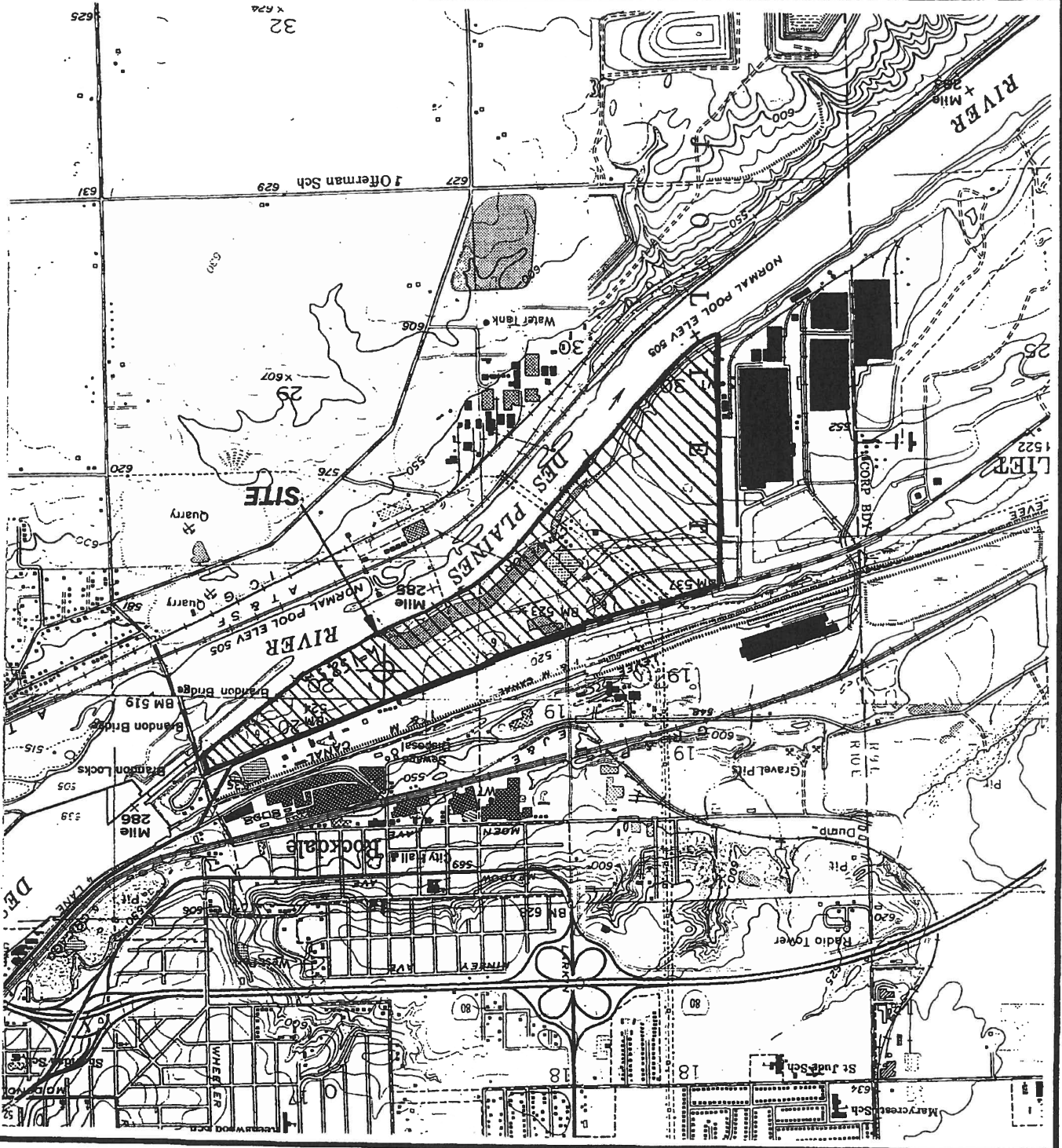
FIGURE 1

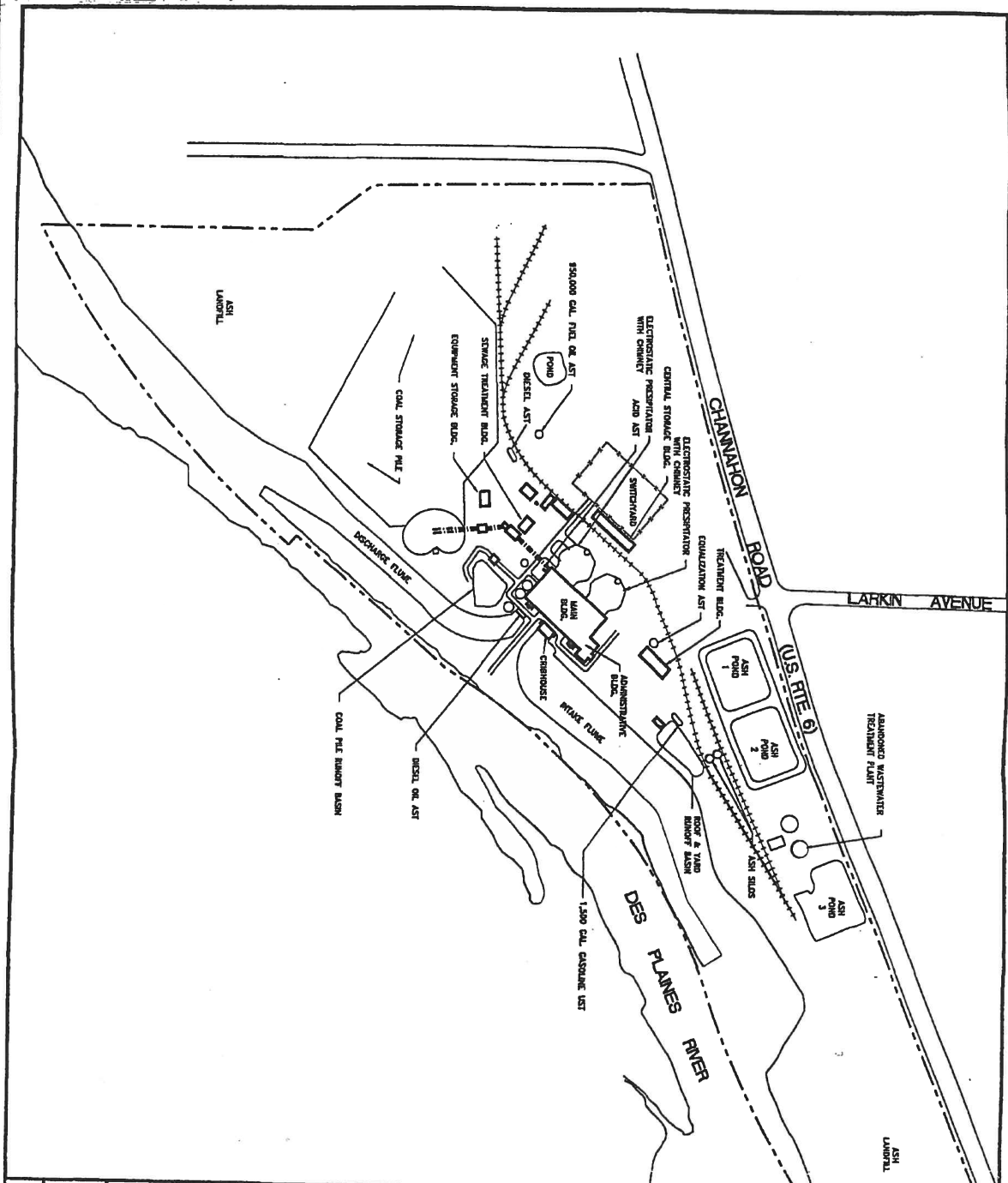
Dwg No: WAUKESANS11

Contour interval 5 feet



SCALE 1:24,000





- LEGEND,**
- PROPERTY BOUNDARY
  - +++++ RAILROAD LINE
  - - - - - FENCE
  - - - - - CONVEYOR LINE

**Note:**  
 \* All dimensions and locations are approximate.  
**Source:**  
 \* ENSR field observations.

ENR No. 00127207

**JOLIET GENERATING STATION #29**  
 1800 CHANNAHON ROAD  
 JOLIET, ILLINOIS

**COMMONWEALTH EDISON COMPANY**  
 November 1998  
 File No: 1801-023-410

**SITE PLAN**

**FIGURE 2**

**ENSR**

NOT TO SCALE

**LEGEND:**

- - - - - PROPERTY BOUNDARY
- - - - - RAILROAD LINE
- + - + - + - FENCE
- - - - - CONVEYOR LINE
- \* 3-1 - SEDIMENT SAMPLE

**Note:**  
 - All dimensions and locations are approximate.  
**Source:**  
 - ENSR field observations.

Doc. No. 44-123233

JOLIET GENERATING STATION #29  
 1800 CHANNAPHON ROAD  
 JOLIET, ILLINOIS

COMMONWEALTH EDISON COMPANY  
 November 1998 File No: 1801-023-410

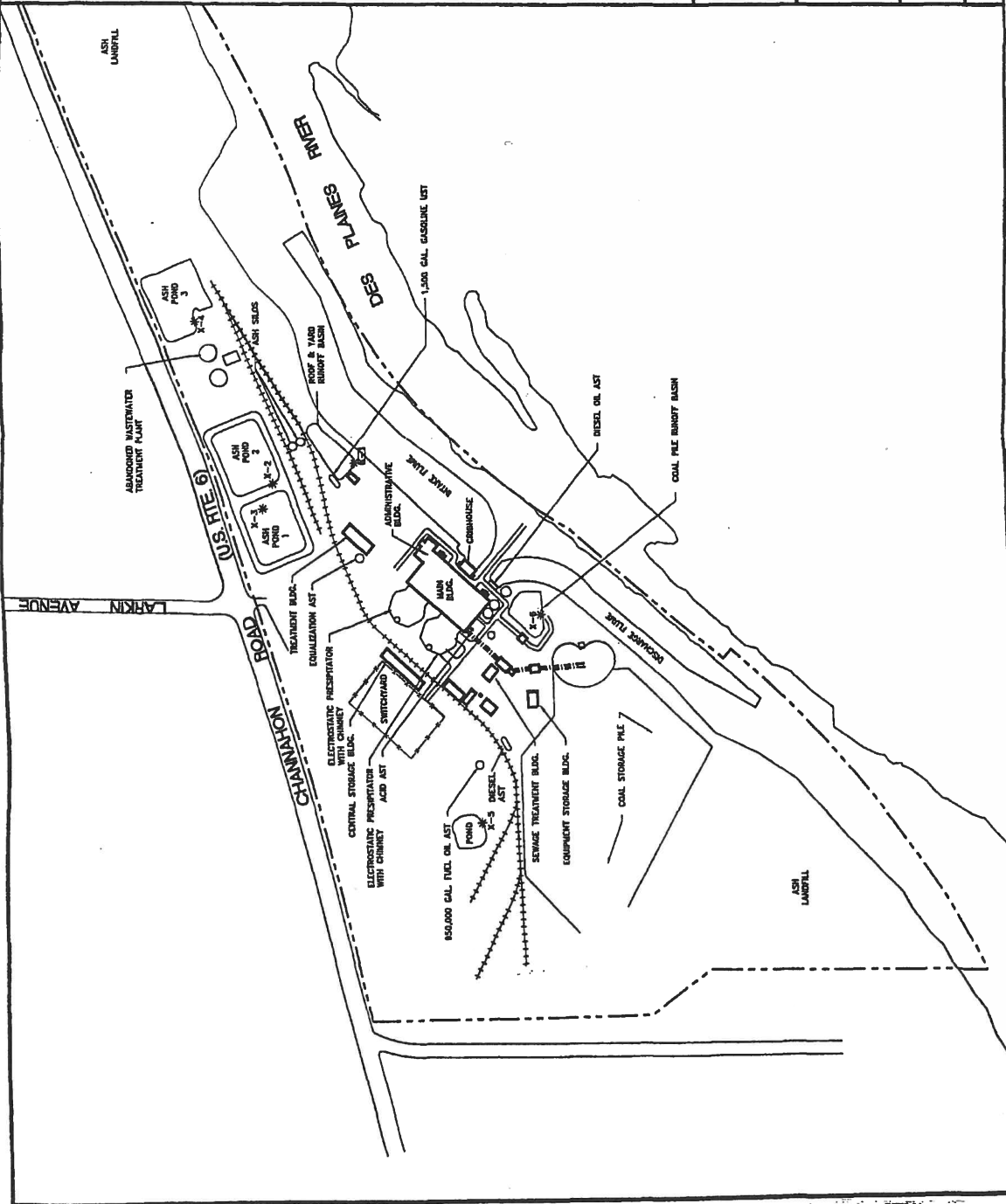
**SEDIMENT SAMPLING  
 SITE PLAN**



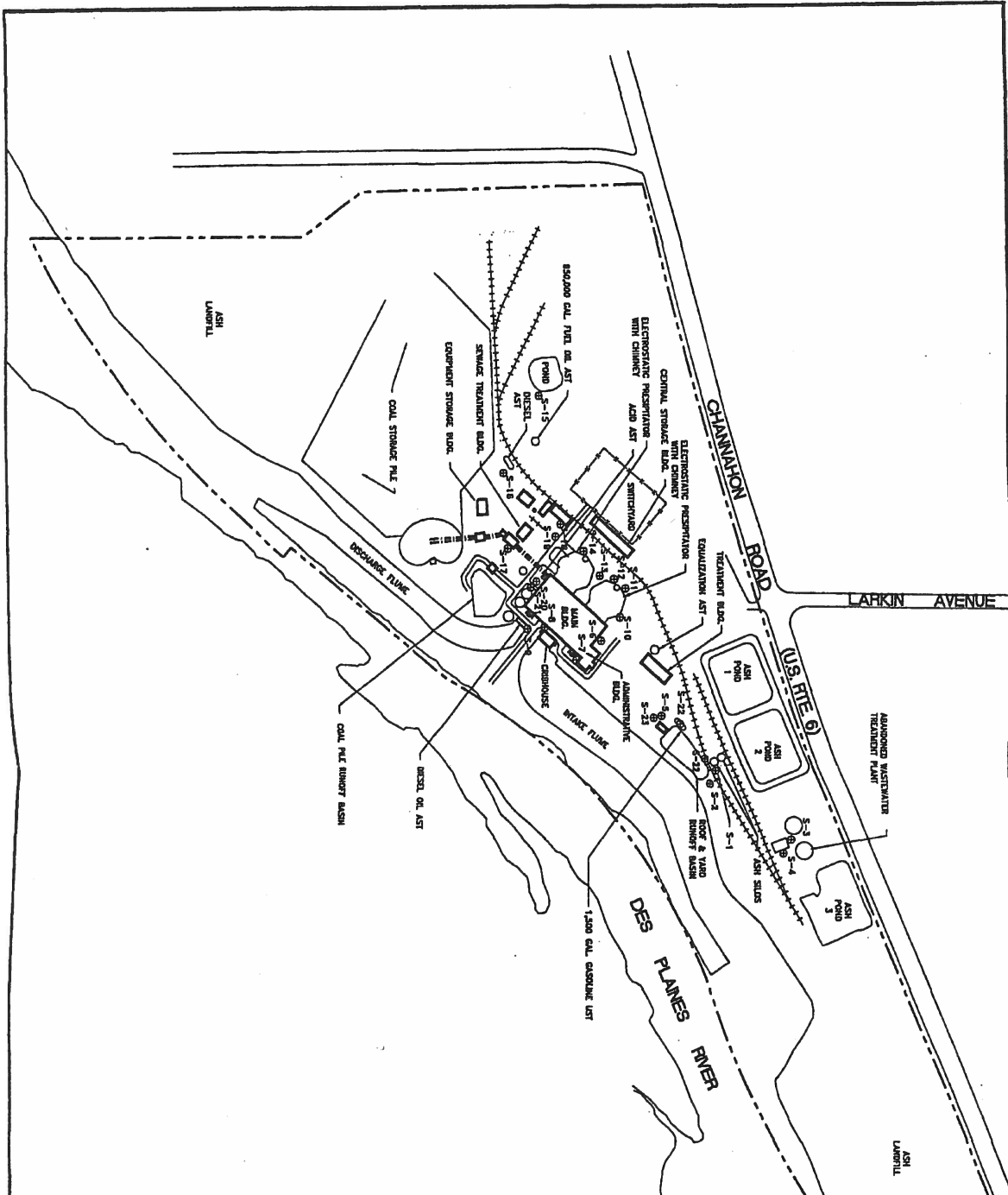
FIGURE 3

**ENSR**

NOT TO SCALE







**LEGEND.**

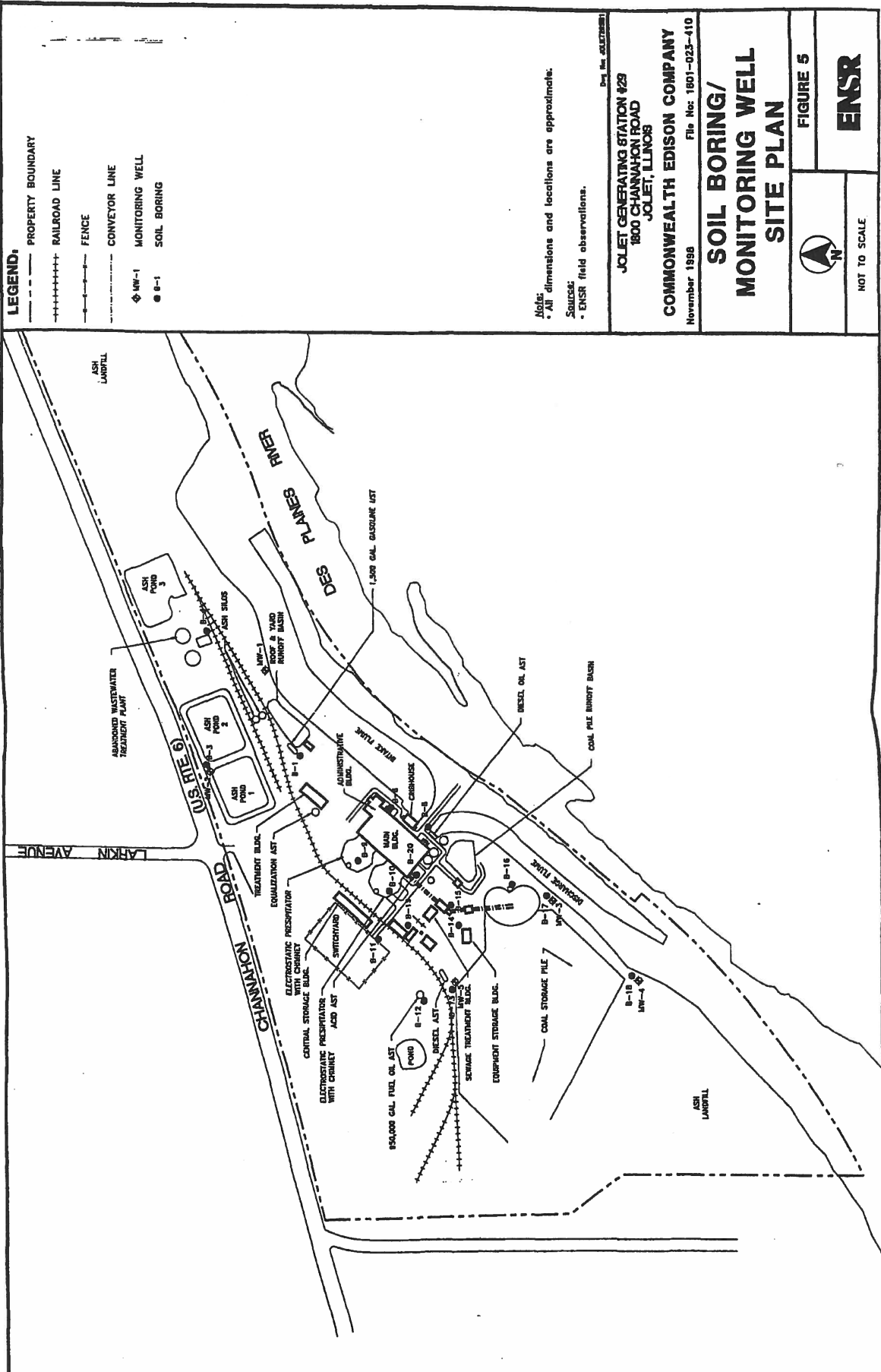
- - - - - PROPERTY BOUNDARY
- + + + + + RAILROAD LINE
- - - - - FENCE
- - - - - CONVEYOR LINE
- ⊙ S-1 SURFACE SOIL SAMPLE

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

**JOLIET GENERATING STATION #29**  
**1800 CHANNAYON ROAD**  
**JOLIET, ILLINOIS**  
**COMMONWEALTH EDISON COMPANY**  
 November 1998 File No: 1801-023-410

**SURFACE SOIL SAMPLING SITE PLAN**

FIGURE 4  
 ENSR  
 NOT TO SCALE



**LEGEND:**

- PROPERTY BOUNDARY
- ++++ RAILROAD LINE
- FENCE
- CONVEYOR LINE
- ◇ MW-1 MONITORING WELL
- B-1 SOIL BORING

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

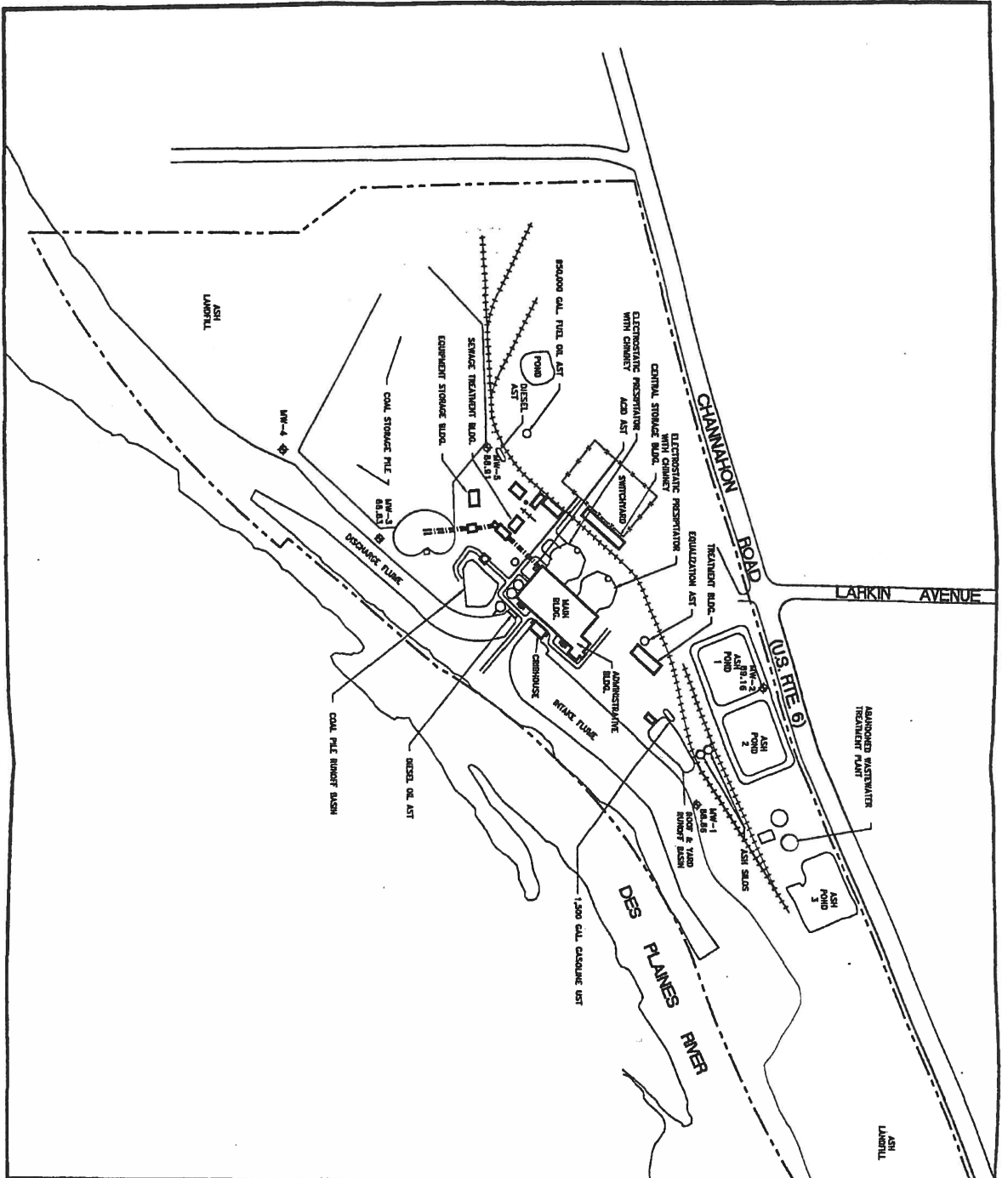
Eng. No. 1901-023-410  
 JOLETT GENERATING STATION #29  
 1800 CHANNATION ROAD  
 JOLETT, ILLINOIS  
 COMMONWEALTH EDISON COMPANY  
 November 1998

**SOIL BORING/  
 MONITORING WELL  
 SITE PLAN**

FIGURE 5

ENSR

NOT TO SCALE



**LEGEND.**

- PROPERTY BOUNDARY
- +++++ RAILROAD LINE
- - - - - FENCE
- - - - - CONVEYOR LINE
- ◆ MW-1 MONITORING WELL WITH GROUND WATER ELEVATION IN FEET.

**NOTE:**

- All dimensions and locations are approximate.
- No water was detected in MW-4.

**Sources:**

- ENSR field observations.

By: Mr. JOHNSON

**JOLET GENERATING STATION #29**  
 800 CHANNATION ROAD  
 JOLET, ILLINOIS

**COMMONWEALTH EDISON COMPANY**  
 November 1988 File No. 1801-023-410

**GROUNDWATER ELEVATION MAP**

FIGURE 6

**ENSR**

NOT TO SCALE

**APPENDIX A**

**Boring Logs and Monitoring Well Construction Diagrams**

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

**Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois**

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**MWG13-15\_23344**



Project No: 1801-023-410

Log of Borehole B-1

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Joliet#9 Power Station

Geologist: C. Howell

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1 2 3 4		3" asphalt surface on top of bedrock.	1	GP	NA	14.0	
5 6 7 8 9 10 11 12 13 14 15		End of Borehole					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/1/98

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

Sheet: 1 of 1



Project No: 1801-023-410  
 Project: Phase II Investigation  
 Client: Commonwealth Edison  
 Location: Jolie#9 Power Station  
 Geologist: C. Howell

Log of Borehole B-2

SUBSURFACE PROFILE		SAMPLE			
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)
mm					PID Reading
0		Ground Surface			
0		Fill			
0.5		Clay and gravel fill to 2.5'			
1					
2					
3					
3.5		-grades to coal and brick fragments	1	GP	71
4					
4.5		End of Borehole			
5		Bedrock at 3.5'			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

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



Project No: 1801-023-410

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Joliet#9 Power Station

Log of Borehole B-6

Geologist: C. Howell

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 2 PNAs/BETX/pH/PCBs/ RCRA Metals
0		-8" asphalt surface overlaying bed-rock, rust stained, wet	1	GP	NA	NA	
2		End of Borehole					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/1/98

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

Sheet: 1 of 1



Project No: 1801-023-410  
 Project: Phase II Investigation  
 Client: Commonwealth Edison  
 Location: Joliet#9 Power Station  
 Geologist: C. Howell

Log of Borehole B-7

SUBSURFACE PROFILE					SAMPLE		
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0		Ground Surface					
0		Fill					
0.5		6" asphalt surface. Slag and coal to 2' bedrock at 2'	1	GP	75	NA	0-2 PNA/BETX/pH/PCBS/ RCRA Metals
2		End of Borehole					

Drilled By: Fox Drilling  
 ENSR  
 740 Pasquini Drive  
 Westmont, IL 60559  
 630-887-1700  
 Drill Method: Geoprobe  
 Drill Date: 10/2/98  
 Sheet: 1 of 1





Project No: 1801-023-410

Log of Borehole B-23

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Joliet#9 Power Station

Geologist: B. Buckley

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0		<i>Gravel (GP)</i> Gravel, trace brown, clayey silt to 1' 6". Bedrock 1' 6"	1	GP	79	NA	PNA's/BETX/pH/PCBs/ RCRA Metals
2		End of Borehole					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

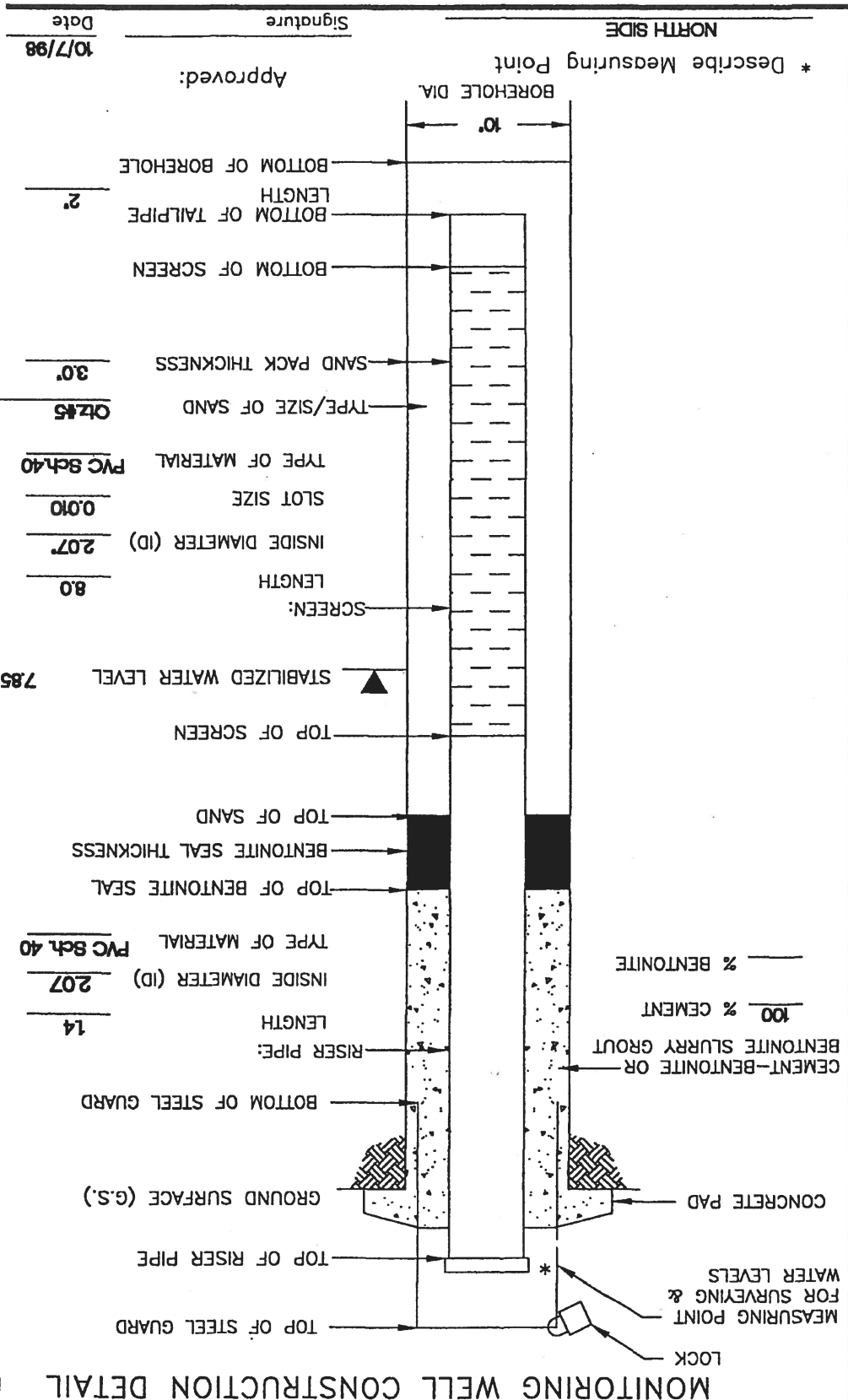
Drilled By: Fox Drilling

Drill Method: Hollow Stem Auger

Drill Date: 10/6/98

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

Sheet: 1 of 1



DEPTH FROM G.S. (feet)	ELEVATION (NGVD)
0.00	121.13
0.43	120.70
0.67	120.46
0.83	120.3
1.0	119.8
1.83	119.3
7.85 (8.28 FROM G.S.)	116.7
8.0	
2.07	
14	
0.83	
1.0	
1.83	
9.83	
9.83	
10.0	
11.3	
11.3	
11.3	

MONITORING WELL CONSTRUCTION DETAIL

Project No: 1801-023-310 Client: Commonwealth Edison Site: Jolt #9 Power Station  
 Well Location: South of Rail-Road, near N. entrance to Coal Storage Area  
 Contractor: FOX DRILLING INC. Method: HSA 4 1/4"  
 Inspector: B. Buckley Date Installed: 10/7/98  
**WELL No: MW-1**

Project No: 1801-023-310 Client: Commonwealth Edison Site: Joliet #9 Power Station

WELL No: **MW-2**

Well Location: Adjacent to B22, SE side of Coal Storage Area, N. of Peakers

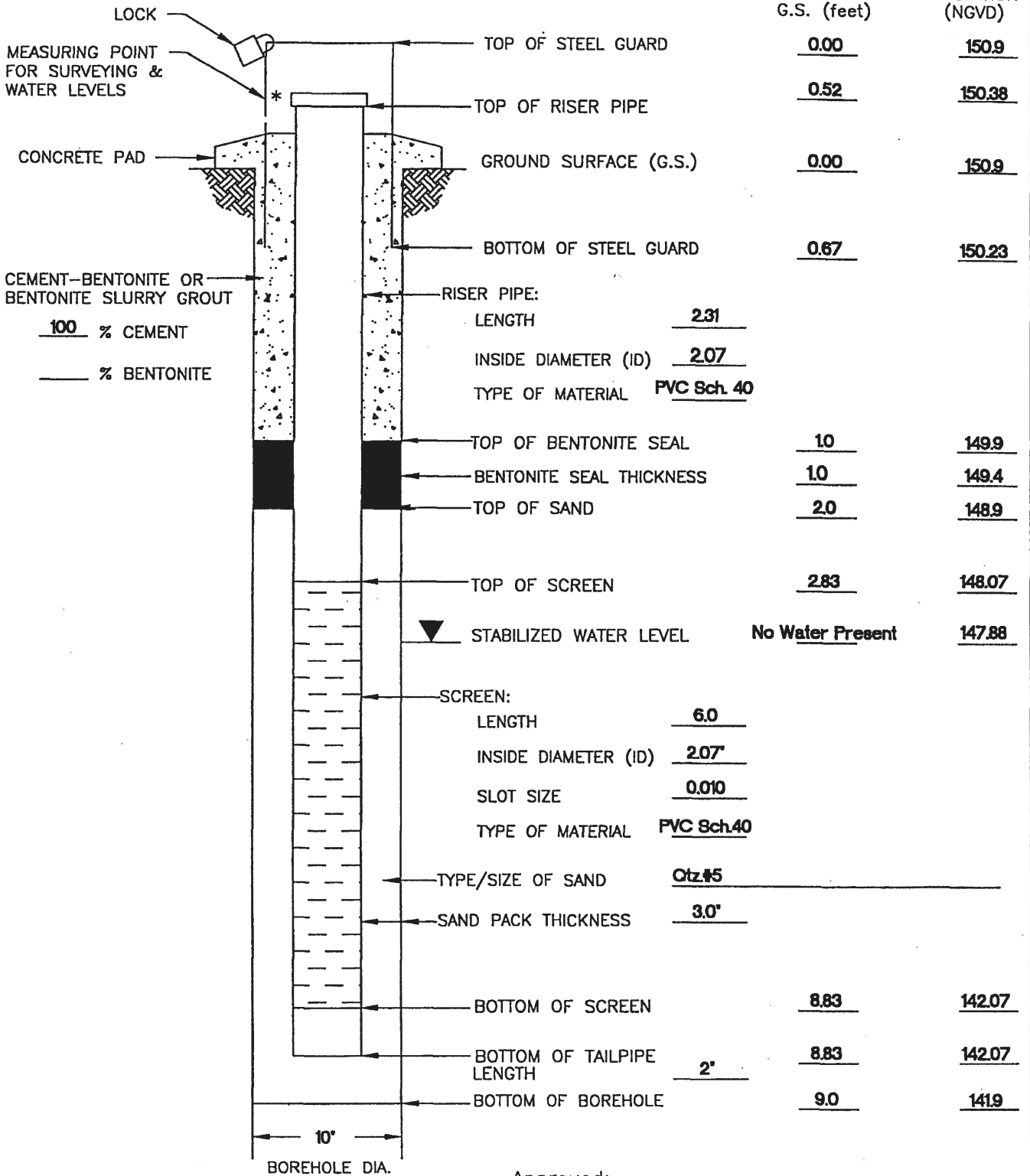
Date Installed: 10/7/98

Contractor: FOX DRILLING INC.

Method: HSA 4 1/4"

Inspector: B. Buckley

**MONITORING WELL CONSTRUCTION DETAIL**



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/7/98

Date



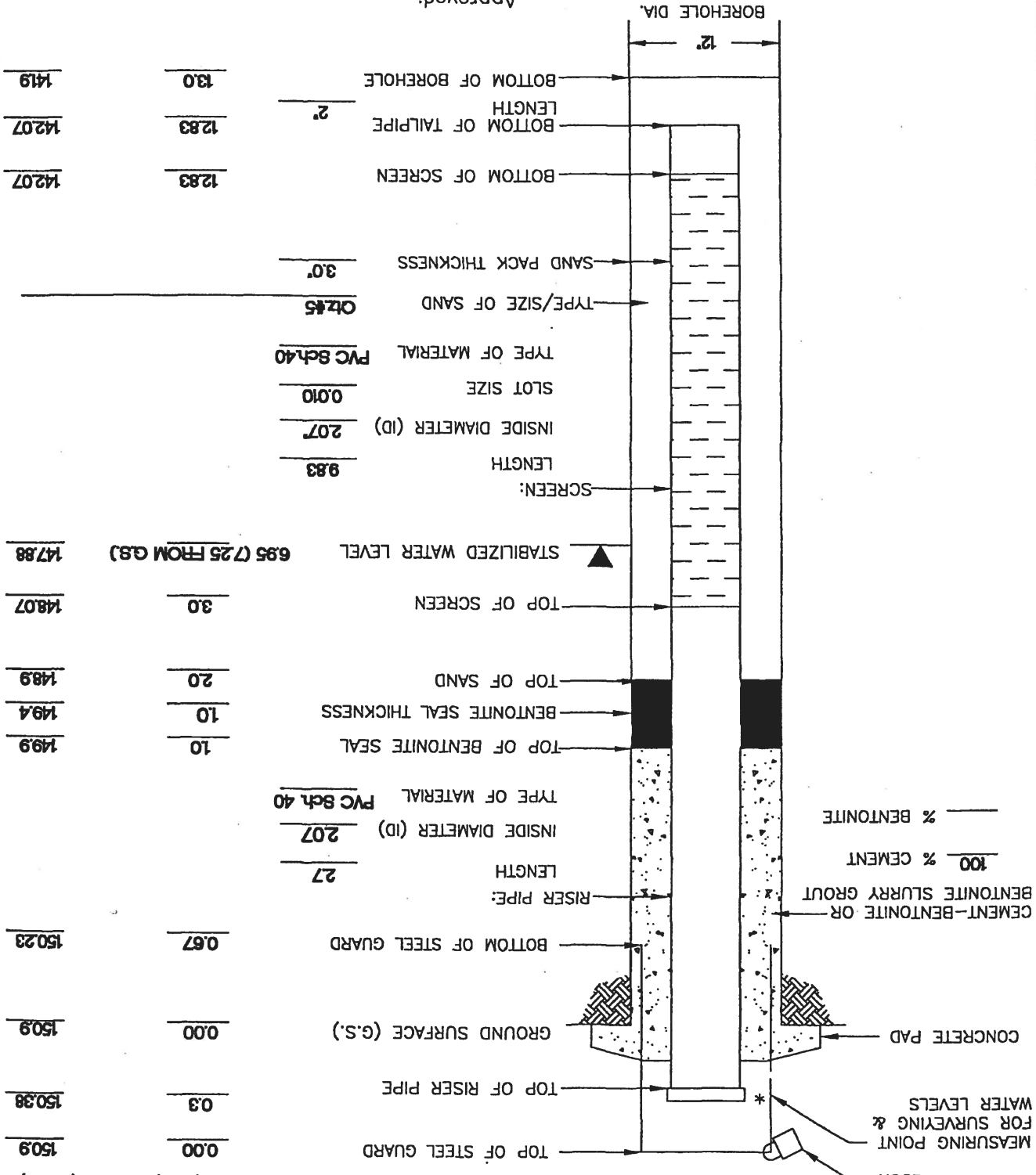


Signature \_\_\_\_\_ Date 10/5/98

NORTH SIDE

\* Describe Measuring Point

Approved:



MONITORING WELL CONSTRUCTION DETAIL

DEPTH FROM ELEVATION (NGVD) G.S. (feet)

Project No: 1801-023-310 Client: Commonwealth Edison Site: Joliet #9 Power Station

Well Location: Near B13 Contractor: FOX DRILLING INC. Method: HSA 4 1/4" Inspector: B. Buckley

Date Installed: 10/5/98

WELL No: MW-3

Project No: 1801-023-310 Client: Commonwealth Edison Site: Joliet #9 Power Station

WELL No: MW-4/B-6

Well Location: Parking lot, adjacent to B6

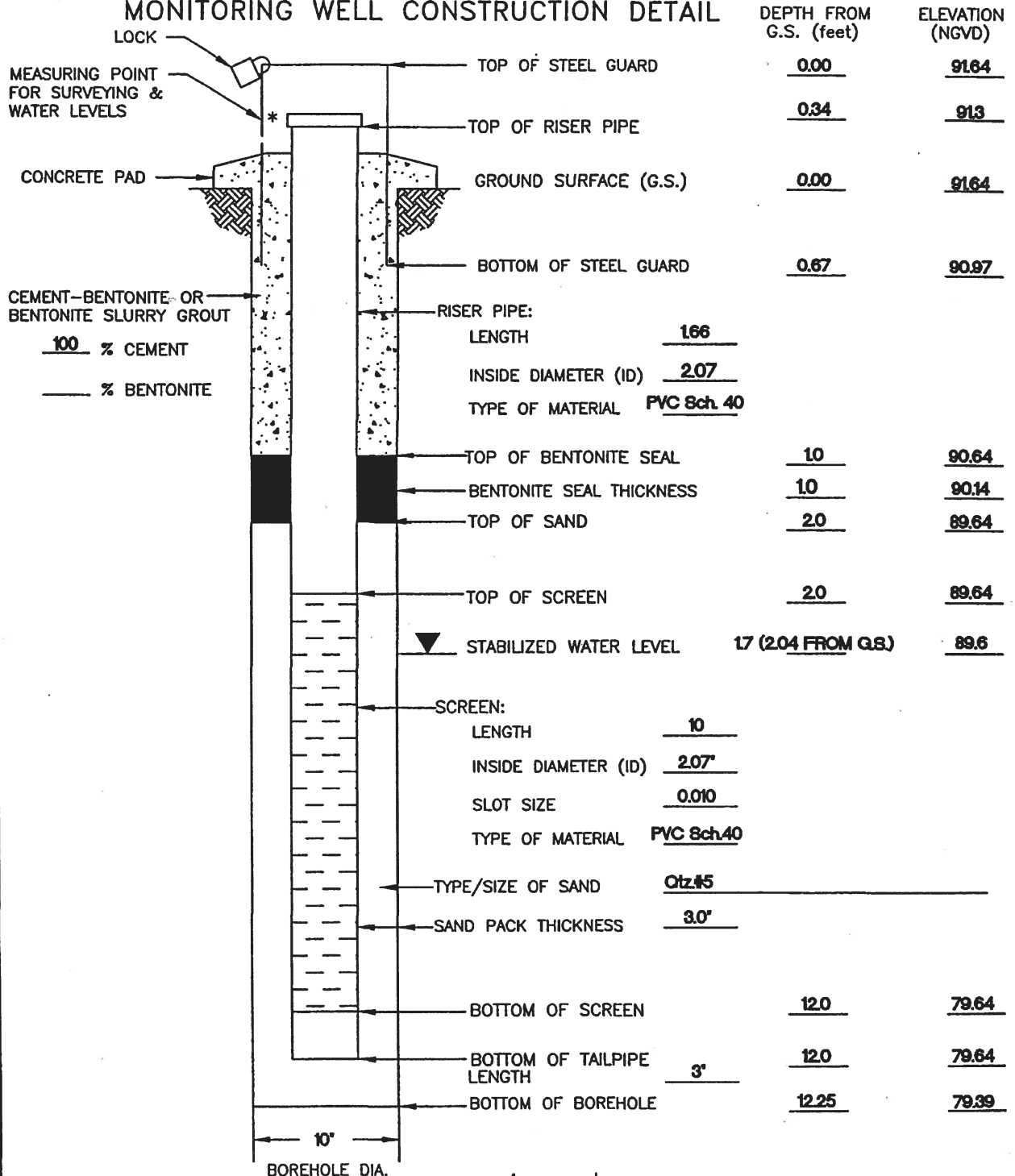
Date Installed: 10/7/98

Contractor: FOX DRILLING INC.

Method: HSA 4 1/4"

Inspector: B. Buckley

### MONITORING WELL CONSTRUCTION DETAIL



CEMENT-BENTONITE OR BENTONITE SLURRY GROUT  
100 % CEMENT  
 \_\_\_\_\_ % BENTONITE

\* Describe Measuring Point

NORTH SIDE

Approved:

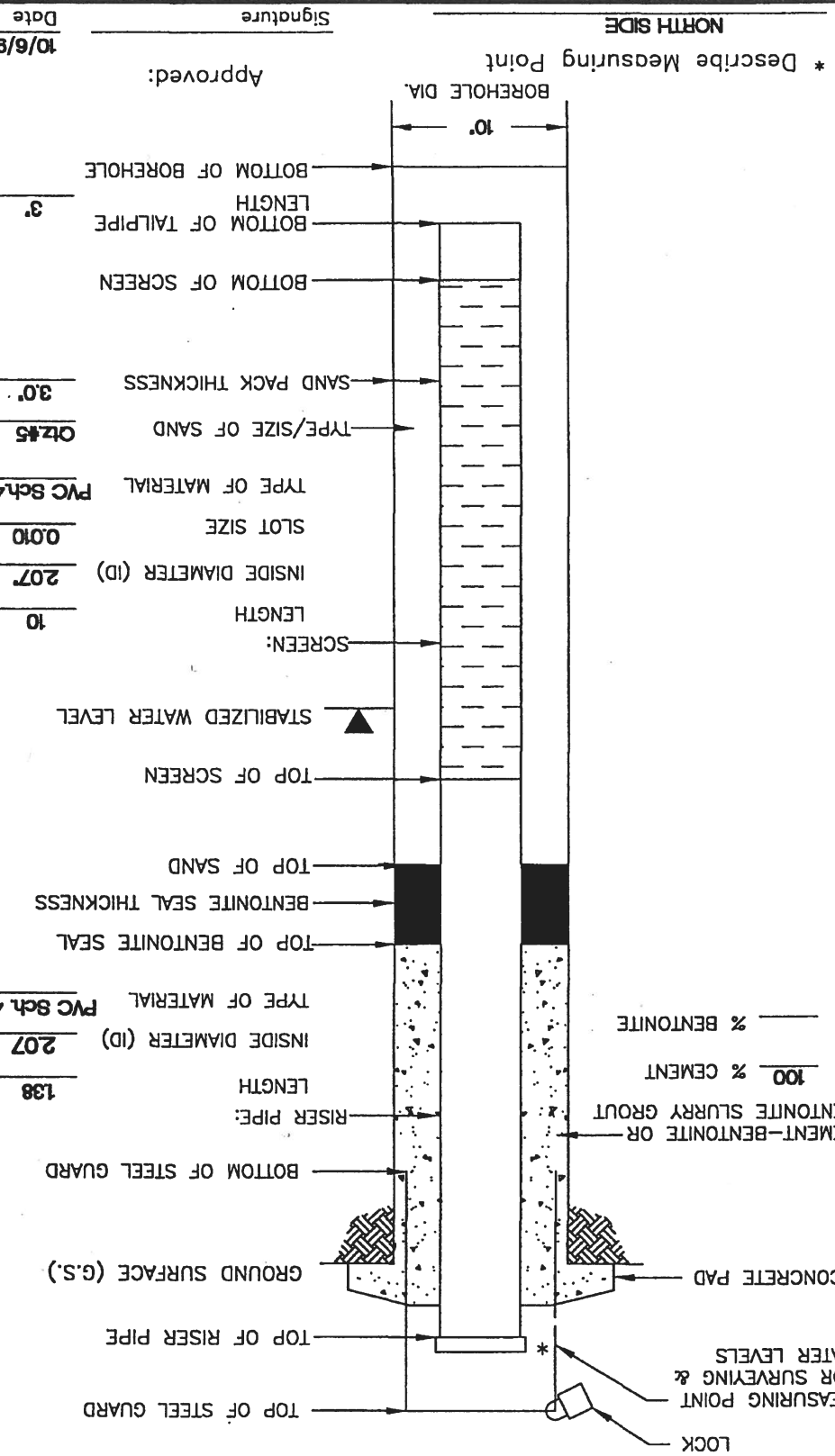
\_\_\_\_\_  
Signature

10/7/98  
Date





**MONITORING WELL CONSTRUCTION DETAIL**



DEPTH FROM G.S. (feet)	ELEVATION (NGVD)	DESCRIPTION
0.00	91.47	TOP OF STEEL GUARD
0.37	91.10	TOP OF RISER PIPE
0.00	91.47	GROUND SURFACE (G.S.)
0.67	90.80	BOTTOM OF STEEL GUARD
1.38		RISER PIPE LENGTH
2.07		INSIDE DIAMETER (ID) PVC Sch. 40
10.00	90.47	TOP OF BENTONITE SEAL
10.10	89.97	BENTONITE SEAL THICKNESS
20.00	89.47	TOP OF SAND
17.50	89.72	TOP OF SCREEN
5.08 (5.45 FROM G.S.)	86.02	STABILIZED WATER LEVEL
10.00		SCREEN LENGTH
2.07		INSIDE DIAMETER (ID) SLOT SIZE
0.010		SLOT SIZE
PVC Sch. 40		TYPE OF MATERIAL
0.245		TYPE/SIZE OF SAND
3.00		SAND PACK THICKNESS
11.75	79.72	BOTTOM OF SCREEN
11.75	79.72	BOTTOM OF TAILPIPE LENGTH
12.00	79.47	BOTTOM OF BOREHOLE

Approved: \_\_\_\_\_

Signature \_\_\_\_\_

Date 10/6/98

NORTH SIDE

\* Describe Measuring Point

BOREHOLE DIA. 10'

100% CEMENT  
 BENTONITE SLURRY GROUT  
 CEMENT-BENTONITE OR  
 BENTONITE  
 % BENTONITE

MEASURING POINT FOR SURVEYING & WATER LEVELS

LOCK

CONCRETE PAD

TOP OF STEEL GUARD

TOP OF RISER PIPE

GROUND SURFACE (G.S.)

BOTTOM OF STEEL GUARD

RISER PIPE

LENGTH

INSIDE DIAMETER (ID)

PVC Sch. 40

TOP OF BENTONITE SEAL

BENTONITE SEAL THICKNESS

TOP OF SAND

TOP OF SCREEN

STABILIZED WATER LEVEL

SCREEN

LENGTH

INSIDE DIAMETER (ID)

2.07

SLOT SIZE

0.010

TYPE OF MATERIAL

PVC Sch. 40

TYPE/SIZE OF SAND

0.245

SAND PACK THICKNESS

3.0'

BOTTOM OF SCREEN

11.75

BOTTOM OF TAILPIPE

3'

BOTTOM OF BOREHOLE

12.0

79.47

79.72

79.72

86.02

89.72

89.47

89.97

90.47

90.80

91.47

91.10

91.47

ELEVATION (NGVD)

DEPTH FROM G.S. (feet)

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

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

**Joliet #29 Generating Station  
1800 Channahon Road  
Joliet, Illinois**

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**MWG13-15\_23355**

Approved by: *Mary Pearson*  
 Mary Pearson  
 Project Manager

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.

Sample Number	Sample Description	Date Taken	Date Received
497450	B-18 (0-1)	10/08/1998	10/09/1998
497451	B-16 (0-4)	10/08/1998	10/09/1998
497452	B-17 (0-2)	10/08/1998	10/09/1998
497453	B-15 (0-2)	10/08/1998	10/09/1998
497454	B-14 (0-2)	10/08/1998	10/09/1998
497455	B-20 (0-2)	10/09/1998	10/09/1998
497456	B-12 (0-1)	10/09/1998	10/09/1998
497457	B-19 (0-1)	10/09/1998	10/09/1998
497458	B-11 (0-2)	10/09/1998	10/09/1998
497459	B-10 (0-2)	10/09/1998	10/09/1998
497460	B-9 (0-3)	10/09/1998	10/09/1998

Project Description: Comed-Joliet #29; 1801-023-410

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

IEPA Cert. No.: 100221  
 MDNR Cert. No.: 999447130  
 AZLA Cert. No.: 0453-01

NET Job Number: 98.13172

11/05/1998

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

Rockford Division  
 3548 35th Street  
 Rockford, IL 61109  
 Tel: (815) 874-2171  
 Fax: (815) 874-5622  
 (800) 807-2877

Bartlett Division  
 850 West Bartlett Rd.  
 Bartlett, IL 60103  
 Tel: (630) 289-3100  
 Fax: (630) 289-5446

NATIONAL ENVIRONMENTAL TESTING, INC.®







**NATIONAL ENVIRONMENTAL TESTING, INC.**

Bartlett Division  
850 West Bartlett Rd.  
Bartlett, IL 60103  
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

**ANALYTICAL REPORT**

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

11/05/1998  
Sample No. : 497450  
NET Job No.: 98.13172

Sample Description: B-18 (0-1)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.91	units	10/16/1998	0.10	nwg	174	SW 9045B
Solids, Total	71.6	‡	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	2.2	mg/kg dw	10/31/1998	0.70	mhp	227 666	SW 7060
Barium, ICP	656	mg/kg dw	10/28/1998	1.4	jtt	1148 2162	SW 6010B
Cadmium, ICP	1.8	mg/kg dw	10/28/1998	0.70	jtt	1148 2147	SW 6010B
Chromium, ICP	17	mg/kg dw	10/28/1998	2.8	jtt	1148 2132	SW 6010B
Lead, ICP	18	mg/kg dw	10/28/1998	5.6	jtt	1148 2369	SW 6010B
Mercury, CVAA	0.092	mg/kg dw	10/27/1998	0.056	sep	662 767	SW 7471A
Selenium, GFAA	<0.35	mg/kg dw	11/01/1998	0.35	mhp	227 552	SW 7740
Silver, AA	<2.8	mg/kg dw	10/27/1998	2.8	sep	484 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Toluene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Dibromofluoromethane (Surr)	90.0	‡	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	94.0	‡	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	84.0	‡	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.84	mg/kg dw	10/25/1998	0.028	keh	753 1809	SW 8310
Acenaphthylene	<0.84	mg/kg dw	10/25/1998	0.028	keh	753 1809	SW 8310
Anthracene	<6.0	mg/kg dw	10/25/1998	0.056	keh	753 1809	SW 8310
Benzo(a)anthracene	<6.4	mg/kg dw	10/25/1998	0.0036	keh	753 1809	SW 8310
Benzo(b)fluoranthene	<0.31	mg/kg dw	10/25/1998	0.0050	keh	753 1809	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 Pasquinielli Drive  
Westmont, IL 60559

NET Job No.: 98.13172

Sample No.: 497450

11/05/1998

Sample Description: B-18 (0-1)

Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998

Date Received: 10/09/1998

Time Taken: 15:00

Time Received: 14:15

IRPA Cert. No. 100221

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	PQL	Prep/Run	Method
Benzo (k)fluoranthene	<1.1	mg/kg dw	10/25/1998	0.0047	keh	753	1809	SM 8310
Benzo (a)pyrene	<0.67	mg/kg dw	10/25/1998	0.0064	keh	753	1809	SM 8310
Benzo (ghi)perylene	<1.7	mg/kg dw	10/25/1998	0.056	keh	753	1809	SM 8310
Chrysene	<1	mg/kg dw	10/25/1998	0.04	keh	753	1809	SM 8310
Dibenzo (a,h)anthracene	<0.3	mg/kg dw	10/25/1998	0.008	keh	753	1809	SM 8310
Fluoranthene	<3.9	mg/kg dw	10/25/1998	0.028	keh	753	1809	SM 8310
Fluorene	<0.84	mg/kg dw	10/25/1998	0.028	keh	753	1809	SM 8310
Indeno (1,2,3-cd)pyrene	<0.36	mg/kg dw	10/25/1998	0.012	keh	753	1809	SM 8310
Naphthalene	1.5	mg/kg dw	10/25/1998	0.035	keh	753	1809	SM 8310
Phenanthrene	2.1	mg/kg dw	10/25/1998	0.056	keh	753	1809	SM 8310
Pyrene	<6.7	mg/kg dw	10/25/1998	0.028	keh	753	1809	SM 8310
Surf: p-Terphenyl	Diluted out		10/25/1998	43-125	keh	753	1809	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wa	373		SM 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.056	mg/kg dw	10/27/1998	0.056	cls	373	46	SM 8082
PCB-1221	<0.056	mg/kg dw	10/27/1998	0.056	cls	373	46	SM 8082
PCB-1232	<0.056	mg/kg dw	10/27/1998	0.056	cls	373	46	SM 8082
PCB-1242	<0.056	mg/kg dw	10/27/1998	0.056	cls	373	46	SM 8082
PCB-1248	<0.056	mg/kg dw	10/27/1998	0.056	cls	373	46	SM 8082
PCB-1254	0.059	mg/kg dw	10/30/1998	0.056	cls	373	47	SM 8082
PCB-1260	<0.056	mg/kg dw	10/30/1998	0.056	cls	373	47	SM 8082
Decachlorobiphenyl (Surf)	87.0	%	10/27/1998	NA	cls	373	46	SM 8082
2,4,5,6-TCDF (Surf)	73.0	%	10/27/1998	NA	cls	373	46	SM 8082



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**ANALYTICAL REPORT**

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

11/05/1998  
Sample No. : 497451  
NET Job No.: 98.13172

Sample Description: B-16 (0-4)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 14:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.37	units	10/16/1998	0.10	nwg	174	SW 9045B
Solids, Total	81.5	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	3.7	mg/kg dw	10/31/1998	0.61	mhp	227 666	SW 7060
Barium, ICP	982	mg/kg dw	10/28/1998	1.2	jtt	1148 2162	SW 6010B
Cadmium, ICP	0.98	mg/kg dw	10/28/1998	0.61	jtt	1148 2147	SW 6010B
Chromium, ICP	12	mg/kg dw	10/28/1998	2.5	jtt	1148 2132	SW 6010B
Lead, ICP	32	mg/kg dw	10/28/1998	4.9	jtt	1148 2369	SW 6010B
Mercury, CVAA	0.21	mg/kg dw	10/27/1998	0.049	sep	662 767	SW 7471A
Selenium, GFAA	<0.31	mg/kg dw	11/01/1998	0.31	mhp	227 552	SW 7740
Silver, AA	<2.5	mg/kg dw	10/27/1998	2.5	sep	484 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Toluene	0.27	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Xylenes, Total	0.018	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Dibromofluoromethane (Surr)	89.6	%	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	90.4	%	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	85.4	%	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<4.9	mg/kg dw	10/25/1998	0.025	keh	753 1809	SW 8310
Acenaphthylene	<4.9	mg/kg dw	10/25/1998	0.025	keh	753 1809	SW 8310
Anthracene	<9.8	mg/kg dw	10/25/1998	0.049	keh	753 1809	SW 8310
Benzo(a)anthracene	<18	mg/kg dw	10/25/1998	0.0032	keh	753 1809	SW 8310
Benzo(b)fluoranthene	<13	mg/kg dw	10/25/1998	0.0044	keh	753 1809	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 Pasquinielli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 497451  
NET Job No. : 98.13172

Sample Description: B-16 (0-4) Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 14:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
Benzo (k) Fluoranthene	<16	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Benzo (a) pyrene	<8.3	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Benzo (ghi) perylene	<9.8	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Chrysenes	7.7	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Dibenzofluorene (a,h) anthracene	<1	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Fluoranthene	<4.9	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Fluorene	<4.9	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Indeno (1,2,3-cd) pyrene	<2.1	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Naphthalene	<6.1	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Phenanthrene	<9.8	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Pyrene	8.7	mg/kg dw	10/25/1998	keh	753	1809	SM 8310
Surr: p-Terphenyl	Diluted out		10/25/1998	keh	753	1809	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE vna	373		SM 3540C
PCB-S NON-AQUEOUS	<0.049	mg/kg dw	10/27/1998	cl#	373	46	SM 8082
PCB-1016	<0.049	mg/kg dw	10/27/1998	cl#	373	46	SM 8082
PCB-1221	<0.049	mg/kg dw	10/27/1998	cl#	373	46	SM 8082
PCB-1232	<0.049	mg/kg dw	10/27/1998	cl#	373	46	SM 8082
PCB-1242	<0.049	mg/kg dw	10/27/1998	cl#	373	46	SM 8082
PCB-1248	<0.049	mg/kg dw	10/27/1998	cl#	373	46	SM 8082
PCB-1254	<0.049	mg/kg dw	10/27/1998	cl#	373	46	SM 8082
PCB-1260	0.050	mg/kg dw	10/27/1998	cl#	373	46	SM 8082
Decachlorobiphenyl (Surr)	91.0	%	10/27/1998	NA	373	46	SM 8082
2,4,5,6-TCDF (Surr)	73.0	%	10/27/1998	NA	373	46	SM 8082



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**ANALYTICAL REPORT**

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

11/05/1998  
Sample No. : 497452  
NET Job No.: 98.13172

Sample Description: B-17 (0-2)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 15:20  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.20	units	10/16/1998	0.10	nwg	174	SW 9045B
Solids, Total	84.7	‡	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	5.2	mg/kg dw	10/31/1998	0.59	mhp	227 666	SW 7060
Barium, ICP	449	mg/kg dw	10/28/1998	1.2	jtt	1148 2162	SW 6010B
Cadmium, ICP	<0.59	mg/kg dw	10/28/1998	0.59	jtt	1148 2147	SW 6010B
Chromium, ICP	6.7	mg/kg dw	10/28/1998	2.4	jtt	1148 2132	SW 6010B
Lead, ICP	15	mg/kg dw	10/28/1998	4.7	jtt	1148 2369	SW 6010B
Mercury, CVAA	0.057	mg/kg dw	10/27/1998	0.047	sep	662 767	SW 7471A
Selenium, GFAA	<0.30	mg/kg dw	11/01/1998	0.30	mhp	227 552	SW 7740
Silver, AA	<2.4	mg/kg dw	10/27/1998	2.4	sep	484 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Toluene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Dibromofluoromethane (Surr)	98.2	‡	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	92.8	‡	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	84.4	‡	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.24	mg/kg dw	10/25/1998	0.024	keh	753 1809	SW 8310
Acenaphthylene	<0.24	mg/kg dw	10/25/1998	0.024	keh	753 1809	SW 8310
Anthracene	<1.4	mg/kg dw	10/25/1998	0.047	keh	753 1809	SW 8310
Benzo(a)anthracene	<2.2	mg/kg dw	10/25/1998	0.0031	keh	753 1809	SW 8310
Benzo(b)fluoranthene	<0.098	mg/kg dw	10/25/1998	0.0043	keh	753 1809	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng

ENSR

740 Pasquinielli Drive  
 Westmont, IL 60559

NET Job No.: 98.13172

Sample No.: 497452

11/05/1998

Sample Description: B-17 (0-2)

Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998

Date Received: 10/09/1998

Time Taken: 15:20

Time Received: 14:15

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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Benzo (k)fluoranthene	<0.43	mg/kg	10/25/1998	keh	753	1809	SM 8310
Benzo (a)pyrene	<0.31	mg/kg	10/25/1998	keh	753	1809	SM 8310
Benzo (ghi)perylene	<0.47	mg/kg	10/25/1998	keh	753	1809	SM 8310
Chrysene	<0.4	mg/kg	10/25/1998	keh	753	1809	SM 8310
Dibenzo (a,h)anthracene	<0.07	mg/kg	10/25/1998	keh	753	1809	SM 8310
Fluoranthene	<0.38	mg/kg	10/25/1998	keh	753	1809	SM 8310
Indeno (1,2,3-cd)pyrene	<0.24	mg/kg	10/25/1998	keh	753	1809	SM 8310
Naphthalene	<0.10	mg/kg	10/25/1998	keh	753	1809	SM 8310
Phenanthrene	<0.30	mg/kg	10/25/1998	keh	753	1809	SM 8310
Pyrene	0.61	mg/kg	10/25/1998	keh	753	1809	SM 8310
Surf: p-Terphenyl	0.31	mg/kg	10/25/1998	keh	753	1809	SM 8310
	Masked		10/25/1998	keh	753	1809	SM 8310
			43-125	keh	753	1809	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	373		SM 3540C
PCB-1016	<0.047	mg/kg	10/27/1998	cls	373	46	SM 8082
PCB-1221	<0.047	mg/kg	10/27/1998	cls	373	46	SM 8082
PCB-1232	<0.047	mg/kg	10/27/1998	cls	373	46	SM 8082
PCB-1242	<0.047	mg/kg	10/27/1998	cls	373	46	SM 8082
PCB-1248	<0.047	mg/kg	10/27/1998	cls	373	46	SM 8082
PCB-1254	<0.047	mg/kg	10/27/1998	cls	373	46	SM 8082
PCB-1260	<0.047	mg/kg	10/27/1998	cls	373	46	SM 8082
Decachlorobiphenyl (Surf)	99.0	%	10/27/1998	KA	373	46	SM 8082
2,4,5,6-TCDF (Surf)	79.0	%	10/27/1998	KA	373	46	SM 8082



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**ANALYTICAL REPORT**

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

11/05/1998  
Sample No. : 497453  
NET Job No.: 98.13172

Sample Description: B-15 (0-2)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 15:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.60	units	10/16/1998	0.10	nwg	174	SW 9045B
Solids, Total	93.0	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	2.5	mg/kg dw	10/31/1998	0.54	mhp	227 666	SW 7060
Barium, ICP	100	mg/kg dw	10/28/1998	1.1	jtt	1148 2162	SW 6010B
Cadmium, ICP	<0.54	mg/kg dw	10/28/1998	0.54	jtt	1148 2147	SW 6010B
Chromium, ICP	4.2	mg/kg dw	10/28/1998	2.2	jtt	1148 2132	SW 6010B
Lead, ICP	9.7	mg/kg dw	10/28/1998	4.3	jtt	1148 2369	SW 6010B
Mercury, CVAA	<0.043	mg/kg dw	10/27/1998	0.043	sep	662 767	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/01/1998	0.27	mhp	227 552	SW 7740
Silver, AA	<2.2	mg/kg dw	10/27/1998	2.2	sep	484 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Toluene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Dibromofluoromethane (Surr)	107.0	%	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	108.0	%	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	105.8	%	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.1	mg/kg dw	10/25/1998	0.022	keh	753 1809	SW 8310
Acenaphthylene	<0.1	mg/kg dw	10/25/1998	0.022	keh	753 1809	SW 8310
Anthracene	<0.2	mg/kg dw	10/25/1998	0.043	keh	753 1809	SW 8310
Benzo(a)anthracene	<0.71	mg/kg dw	10/25/1998	0.0028	keh	753 1809	SW 8310
Benzo(b)fluoranthene	<0.022	mg/kg dw	10/25/1998	0.0039	keh	753 1809	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 Pasquinielli Drive  
Westmont, IL 60559

11/05/1998  
Sample No. : 497453  
NET Job No. : 98.13172

Sample Description: B-15 (0-2)

Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998

Date Received: 10/09/1998  
Time Received: 14:15  
WDMR Cert. No. 999447130

Time Taken: 15:45  
IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Method
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Benzo (k) Fluoranthene	<0.026	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Benzo (a) pyrene	<0.073	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Benzo (ghi) perylene	<0.2	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Chrysene	<0.2	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Dibenzo (a,h) anthracene	<0.03	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Fluoranthene	<0.1	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Fluorene	<0.1	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Indeno (1,2,3-cd) pyrene	<0.04	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Naphthalene	<0.1	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Phenanthrene	<0.2	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Pyrene	<0.1	mg/kg dw	10/25/1998	PQL	753	1809	SM 8310
Surr: p-Terphenyl	Masked		10/25/1998		43-125	753	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	373		SM 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	mg/kg dw	10/27/1998	PQL	373	46	SM 8082
PCB-1221	<0.043	mg/kg dw	10/27/1998	PQL	373	46	SM 8082
PCB-1232	<0.043	mg/kg dw	10/27/1998	PQL	373	46	SM 8082
PCB-1242	<0.043	mg/kg dw	10/27/1998	PQL	373	46	SM 8082
PCB-1248	<0.043	mg/kg dw	10/27/1998	PQL	373	46	SM 8082
PCB-1254	<0.043	mg/kg dw	10/27/1998	PQL	373	46	SM 8082
PCB-1260	<0.043	mg/kg dw	10/27/1998	PQL	373	46	SM 8082
Decachlorobiphenyl (Surr)	103.0	%	10/27/1998	NA			
2,4,5,6-TCMX (Surr)	92.0	%	10/27/1998	NA			





**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. : 497454  
NET Job No.: 98.13172

Sample Description: B-14 (0-2)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.01	units	10/16/1998	0.10	nvg	174	SW 9045B
Solids, Total	73.3	†	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	1.9	mg/kg dw	10/31/1998	0.68	mhp	227 666	SW 7060
Barium, ICP	423	mg/kg dw	10/28/1998	1.4	jtt	1148 2162	SW 6010B
Cadmium, ICP	0.82	mg/kg dw	10/28/1998	0.68	jtt	1148 2147	SW 6010B
Chromium, ICP	6.3	mg/kg dw	10/28/1998	2.7	jtt	1148 2132	SW 6010B
Lead, ICP	7.2	mg/kg dw	10/28/1998	5.5	jtt	1148 2369	SW 6010B
Mercury, CVAA	0.064	mg/kg dw	10/27/1998	0.055	sep	662 767	SW 7471A
Selenium, GFAA	<0.34	mg/kg dw	11/01/1998	0.34	mhp	227 552	SW 7740
Silver, AA	<2.7	mg/kg dw	10/27/1998	2.7	sep	484 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Toluene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Dibromofluoromethane (Surr)	101.8	†	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	104.6	†	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	103.0	†	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		nvg	753	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.42	mg/kg dw	10/25/1998	0.027	keh	753 1809	SW 8310
Acenaphthylene	<0.27	mg/kg dw	10/25/1998	0.027	keh	753 1809	SW 8310
Anthracene	<3.4	mg/kg dw	10/25/1998	0.055	keh	753 1809	SW 8310
Benzo(a)anthracene	<9.3	mg/kg dw	10/25/1998	0.0035	keh	753 1809	SW 8310
Benzo(b)fluoranthene	<0.16	mg/kg dw	10/25/1998	0.0049	keh	753 1809	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng

ENSR  
740 Pasquinielli Drive  
Westmont, IL 60559

NET Job No.: 98.13172

Sample No.: 497454

11/05/1998

Sample Description: B-14 (0-2)

Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998

Date Received: 10/09/1998

Time Taken: 16:00

Time Received: 14:15

IEPA Cert. No. 100221

MDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Method
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Benzo(k) Fluoranthene	<0.16	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Benzo(a)pyrene	<0.18	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Benzo(ghi)perylene	<0.55	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Chrysene	<0.4	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Dibenzo(a,h)anthracene	<0.08	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Fluoranthene	<2.6	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Fluorene	<0.27	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Indeno(1,2,3-cd)pyrene	<0.12	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Kaphthalene	<0.34	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Phenanthrene	<0.55	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Pyrene	<0.37	mg/kg dw	10/25/1998	keh	753	1809	SM	8310
Surr: p-Terphenyl	Masked		10/25/1998	keh	753	1809	SM	8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	373		SM	3540C
PCB-1016	<0.055	mg/kg dw	10/27/1998	CL#	373	46	SM	8082
PCB-1221	<0.055	mg/kg dw	10/27/1998	CL#	373	46	SM	8082
PCB-1232	<0.055	mg/kg dw	10/27/1998	CL#	373	46	SM	8082
PCB-1242	<0.055	mg/kg dw	10/27/1998	CL#	373	46	SM	8082
PCB-1248	<0.055	mg/kg dw	10/27/1998	CL#	373	46	SM	8082
PCB-1254	<0.055	mg/kg dw	10/27/1998	CL#	373	46	SM	8082
PCB-1260	<0.055	mg/kg dw	10/27/1998	CL#	373	46	SM	8082
Decachlorobiphenyl (Surr)	101.0		10/27/1998	CL#	373	46	SM	8082
2,4,5,6-TCMX (Surr)	79.0		10/27/1998	CL#	373	46	SM	8082



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## ANALYTICAL REPORT

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

11/05/1998  
Sample No. : 497455  
NET Job No.: 98.13172

Sample Description: B-20 (0-2)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 07:35  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.25	units	10/16/1998	0.10	nwg	174	SW 9045B
Solids, Total	86.4	‡	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	2.8	mg/kg dw	10/31/1998	0.58	mhp	227 666	SW 7060
Barium, ICP	312	mg/kg dw	10/28/1998	1.2	jtc	1148 2162	SW 6010B
Cadmium, ICP	<0.58	mg/kg dw	10/28/1998	0.58	jtc	1148 2147	SW 6010B
Chromium, ICP	10	mg/kg dw	10/28/1998	2.3	jtc	1148 2132	SW 6010B
Lead, ICP	41	mg/kg dw	10/28/1998	4.6	jtc	1148 2369	SW 6010B
Mercury, CVAA	0.047	mg/kg dw	10/27/1998	0.046	sep	662 767	SW 7471A
Selenium, GFAA	<0.29	mg/kg dw	11/01/1998	0.29	mhp	227 552	SW 7740
Silver, AA	<2.3	mg/kg dw	10/27/1998	2.3	sep	484 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Toluene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Dibromofluoromethane (Surr)	97.0	‡	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	100.4	‡	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	102.2	‡	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 FNAs NON-AQUEOUS	EXTRACTED		10/20/1998		mrw	754	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.530	mg/kg dw	10/25/1998	0.023	kdw	754 1809	SW 8310
Acenaphthylene	<0.333	mg/kg dw	10/25/1998	0.023	kdw	754 1809	SW 8310
Anthracene	<3.04	mg/kg dw	10/25/1998	0.046	kdw	754 1809	SW 8310
Benzo(a)anthracene	<9.71	mg/kg dw	10/25/1998	0.0030	kdw	754 1809	SW 8310
Benzo(b)fluoranthene	0.30	mg/kg dw	10/25/1998	0.0042	kdw	754 1809	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

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

11/05/1998  
Sample No.: 497455  
NET Job No.: 98.13172

Sample Description: B-20 (0-2) Combd-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 07:35  
IRPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	PQL	Prep/Run	Analytical Method
Benzo (k) Fluoranthene	0.20	mg/kg dw	10/25/1998	0.0039	KdW	754	1809	SM 8310
Benzo (a) pyrene	<0.073	mg/kg dw	10/25/1998	0.0053	KdW	754	1809	SM 8310
Benzo (ghi) perylene	<0.46	mg/kg dw	10/25/1998	0.046	KdW	754	1809	SM 8310
Chrysene	0.39	mg/kg dw	10/25/1998	0.03	KdW	754	1809	SM 8310
Dibenzo (a,h) anthracene	<0.22	mg/kg dw	10/25/1998	0.007	KdW	754	1809	SM 8310
Fluoranthene	4.7	mg/kg dw	10/25/1998	0.023	KdW	754	1809	SM 8310
Fluorene	<0.527	mg/kg dw	10/25/1998	0.023	KdW	754	1809	SM 8310
Indeno (1,2,3-cd) pyrene	0.32	mg/kg dw	10/25/1998	0.010	KdW	754	1809	SM 8310
Naphthalene	<0.43	mg/kg dw	10/25/1998	0.029	KdW	754	1809	SM 8310
Phenanthrene	1.4	mg/kg dw	10/25/1998	0.046	KdW	754	1809	SM 8310
Pyrene	2.7	mg/kg dw	10/25/1998	0.023	KdW	754	1809	SM 8310
Surr: p-Terphenyl	Diluted out		10/25/1998	43-125	KdW	754	1809	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	WMA	373		SM 3540C
PCB's NON-AQUEOUS								
PCB-1016	<0.046	mg/kg dw	10/27/1998	0.046	CLB	373	46	SM 8082
PCB-1221	<0.046	mg/kg dw	10/27/1998	0.046	CLB	373	46	SM 8082
PCB-1232	<0.046	mg/kg dw	10/27/1998	0.046	CLB	373	46	SM 8082
PCB-1242	<0.046	mg/kg dw	10/27/1998	0.046	CLB	373	46	SM 8082
PCB-1248	<0.046	mg/kg dw	10/27/1998	0.046	CLB	373	46	SM 8082
PCB-1254	<0.046	mg/kg dw	10/30/1998	0.046	CLB	373	47	SM 8082
PCB-1260	<0.046	mg/kg dw	10/27/1998	0.046	CLB	373	46	SM 8082
Decachlorobiphenyl (Surr)	90.0	%	10/27/1998	NA	CLB	373	46	SM 8082
2,4,5,6-TCMX (Surr)	70.0	%	10/27/1998	NA	CLB	373	46	SM 8082



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## ANALYTICAL REPORT

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

11/05/1998  
Sample No. : 497456  
NET Job No.: 98.13172

Sample Description: B-12 (0-1)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 08:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.65	units	10/16/1998	0.10	nwg	175	SW 9045B
Solids, Total	83.5	‡	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	2.4	mg/kg dw	10/31/1998	0.60	mhp	227 666	SW 7060
Barium, ICP	240	mg/kg dw	10/29/1998	1.2	jtt	1148 2162	SW 6010B
Cadmium, ICP	<0.60	mg/kg dw	10/28/1998	0.60	jtt	1148 2147	SW 6010B
Chromium, ICP	4.9	mg/kg dw	10/28/1998	2.4	jtt	1148 2132	SW 6010B
Lead, ICP	9.8	mg/kg dw	10/28/1998	4.8	jtt	1148 2369	SW 6010B
Mercury, CVAA	<0.048	mg/kg dw	10/27/1998	0.048	sep	662 767	SW 7471A
Selenium, GFAA	<0.30	mg/kg dw	11/01/1998	0.30	mhp	227 552	SW 7740
Silver, AA	<2.4	mg/kg dw	10/27/1998	2.4	sep	484 567	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Toluene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Dibromofluoromethane (Surr)	100.0	‡	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	100.0	‡	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	96.0	‡	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	EXTRACTED		10/20/1998		mmv	754	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.14	mg/kg dw	10/25/1998	0.024	kdw	754 1809	SW 8310
Acenaphthylene	<0.17	mg/kg dw	10/25/1998	0.024	kdw	754 1809	SW 8310
Anthracene	<0.2	mg/kg dw	10/25/1998	0.048	kdw	754 1809	SW 8310
Benzo(a)anthracene	<0.78	mg/kg dw	10/25/1998	0.0031	kdw	754 1809	SW 8310
Benzo(b)fluoranthene	<0.17	mg/kg dw	10/25/1998	0.0043	kdw	754 1809	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

Sample No.: 497456  
NET Job No.: 98.13172

Sample Description: B-12 (0-1) Comed-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 08:00  
Date Received: 10/09/1998  
Time Received: 14:15  
IEPA Cert. No. 100221  
MDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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Benzo (k) Fluoranthene	< 0.29	mg/kg dw	10/25/1998	0.0041	kdw	754 1809 SM 8310	
Benzo (a) Pyrene	< 0.16	mg/kg dw	10/25/1998	0.0055	kdw	754 1809 SM 8310	
Benzo (ghi) perylene	< 0.2	mg/kg dw	10/25/1998	0.048	kdw	754 1809 SM 8310	
Chrysene	< 0.2	mg/kg dw	10/25/1998	0.04	kdw	754 1809 SM 8310	
Dibenz(a,h) anthracene	< 0.083	mg/kg dw	10/25/1998	0.007	kdw	754 1809 SM 8310	
Fluoranthene	< 0.1	mg/kg dw	10/25/1998	0.024	kdw	754 1809 SM 8310	
Indeno(1,2,3-cd)pyrene	< 0.28	mg/kg dw	10/25/1998	0.010	kdw	754 1809 SM 8310	
Naphthalene	< 0.16	mg/kg dw	10/25/1998	0.030	kdw	754 1809 SM 8310	
Phenanthrene	< 0.2	mg/kg dw	10/25/1998	0.048	kdw	754 1809 SM 8310	
Pyrene	0.277	mg/kg dw	10/25/1998	0.024	kdw	754 1809 SM 8310	
Surrogate p-Terphenyl	Diluted out		10/25/1998	43-125	kdw	754 1809 SM 8310	
PCB Non-Aqueous Extraction	COMPLETE		10/23/1998	COMPLETE	ana	374	SM 3540C
PCB-1016	< 0.048	mg/kg dw	11/04/1998	0.048	CLB	374 51 SM 8082	
PCB-1221	< 0.048	mg/kg dw	11/04/1998	0.048	CLB	374 51 SM 8082	
PCB-1232	< 0.048	mg/kg dw	11/04/1998	0.048	CLB	374 51 SM 8082	
PCB-1242	< 0.048	mg/kg dw	11/04/1998	0.048	CLB	374 51 SM 8082	
PCB-1248	< 0.048	mg/kg dw	11/04/1998	0.048	CLB	374 51 SM 8082	
PCB-1254	< 0.048	mg/kg dw	11/04/1998	0.048	CLB	374 51 SM 8082	
PCB-1260	< 0.048	mg/kg dw	11/04/1998	0.048	CLB	374 51 SM 8082	
Decachlorobiphenyl (Surrogate)	82.0	µg	11/04/1998	NA	CLB	374 51 SM 8082	
2,4,5,6-TCX (Surrogate)	72.0	µg	11/04/1998	NA	CLB	374 51 SM 8082	



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(800) 807-2877

**ANALYTICAL REPORT**

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

11/05/1998  
Sample No. : 497457  
NET Job No.: 98.13172

Sample Description: B-19 (0-1)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 08:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
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	10/16/1998	0.10	nwg	175	SW 9045B
Solids, Total	65.8	%	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	3.2	mg/kg dw	11/02/1998	0.76	mhp	226 668	SW 7060
Barium, ICP	912	mg/kg dw	10/29/1998	1.5	jtt	1148 2162	SW 6010B
Cadmium, ICP	7.1	mg/kg dw	10/28/1998	0.76	jtt	1148 2147	SW 6010B
Chromium, ICP	9.0	mg/kg dw	10/28/1998	3.0	jtt	1148 2132	SW 6010B
Lead, ICP	30	mg/kg dw	10/28/1998	6.1	jtt	1148 2369	SW 6010B
Mercury, CVAA	0.071	mg/kg dw	10/27/1998	0.061	sep	662 767	SW 7471A
Selenium, GFAA	<0.38	mg/kg dw	11/03/1998	0.38	mhp	226 555	SW 7740
Silver, AA	<3.0	mg/kg dw	10/27/1998	3.0	sep	485 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.008	mg/kg dw	10/21/1998	0.008	jap	45	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	10/21/1998	0.008	jap	45	SW 8260A
Toluene	<0.008	mg/kg dw	10/21/1998	0.008	jap	45	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	10/21/1998	0.008	jap	45	SW 8260A
Dibromofluoromethane (Surr)	100.0	%	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	98.0	%	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	88.0	%	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	EXTRACTED		10/20/1998		mmv	754	SW 3540C
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<2.4	mg/kg dw	10/25/1998	0.030	kdw	754 1809	SW 8310
Acenaphthylene	<2.4	mg/kg dw	10/25/1998	0.030	kdw	754 1809	SW 8310
Anthracene	<4.9	mg/kg dw	10/25/1998	0.061	kdw	754 1809	SW 8310
Benzo(a)anthracene	<12	mg/kg dw	10/25/1998	0.0040	kdw	754 1809	SW 8310
Benzo(b)fluoranthene	<1.0	mg/kg dw	10/25/1998	0.0055	kdw	754 1809	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 Pasquinielli Drive  
Westmont, IL 60559

11/05/1998  
Sample No.: 497457  
NET Job No.: 98.13172

Sample Description: B-19 (0-1) Comed-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 08:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyt Batch No.	Method
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Benzo (k) Fluoranthene	<1.7	mg/kg dw	10/25/1998	0.0052	754	1809	SM 8310
Benzo (a) pyrene	<0.76	mg/kg dw	10/25/1998	0.0070	754	1809	SM 8310
Benzo (ghi) perylene	<4.9	mg/kg dw	10/25/1998	0.061	754	1809	SM 8310
Chrysene	<3.6	mg/kg dw	10/25/1998	0.05	754	1809	SM 8310
Dibenzo (a,h) anthracene	<0.7	mg/kg dw	10/25/1998	0.009	754	1809	SM 8310
Fluoranthene	<3.0	mg/kg dw	10/25/1998	0.030	754	1809	SM 8310
Fluorene	<2.4	mg/kg dw	10/25/1998	0.030	754	1809	SM 8310
Indeno (1,2,3-cd) pyrene	<1.7	mg/kg dw	10/25/1998	0.013	754	1809	SM 8310
Naphthalene	<3.0	mg/kg dw	10/25/1998	0.038	754	1809	SM 8310
Phenanthrene	<4.9	mg/kg dw	10/25/1998	0.061	754	1809	SM 8310
Pyrene	<2.4	mg/kg dw	10/25/1998	0.030	754	1809	SM 8310
Surf: p-Terphenyl	Diluted out		10/25/1998	43-125	754	1809	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE vna	373		SM 3540C
PCB-1016	<0.061	mg/kg dw	10/28/1998	0.061	373	46	SM 8082
PCB-1221	<0.061	mg/kg dw	10/28/1998	0.061	373	46	SM 8082
PCB-1232	<0.061	mg/kg dw	10/28/1998	0.061	373	46	SM 8082
PCB-1242	<0.061	mg/kg dw	10/28/1998	0.061	373	46	SM 8082
PCB-1248	<0.061	mg/kg dw	10/28/1998	0.061	373	46	SM 8082
PCB-1254	<0.061	mg/kg dw	10/28/1998	0.061	373	46	SM 8082
PCB-1260	<0.061	mg/kg dw	10/28/1998	0.061	373	46	SM 8082
Decachlorobiphenyl (Surf)	88.0	%	10/28/1998	NA	373	46	SM 8082
2,4,5,6-TCMX (Surf)	72.0	%	10/28/1998	NA	373	46	SM 8082





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**ANALYTICAL REPORT**

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

11/05/1998  
Sample No. : 497458  
NET Job No.: 98.13172

Sample Description: B-11 (0-2)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 08:40  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.62	units	10/16/1998	0.10	nwg	175	SW 9045B
Solids, Total	86.9	‡	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	3.2	mg/kg dw	11/02/1998	0.58	mhp	226 668	SW 7060
Barium, ICP	2,070	mg/kg dw	10/29/1998	1.2	jtt	1148 2162	SW 6010B
Cadmium, ICP	<0.58	mg/kg dw	10/28/1998	0.58	jtt	1148 2147	SW 6010B
Chromium, ICP	14	mg/kg dw	10/28/1998	2.3	jtt	1148 2132	SW 6010B
Lead, ICP	24	mg/kg dw	10/28/1998	4.6	jtt	1148 2369	SW 6010B
Mercury, CVAA	<0.046	mg/kg dw	10/27/1998	0.046	sep	662 767	SW 7471A
Selenium, GFAA	0.31	mg/kg dw	11/03/1998	0.29	mhp	226 555	SW 7740
Silver, AA	<2.3	mg/kg dw	10/27/1998	2.3	sep	485 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Toluene	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/21/1998	0.006	jap	45	SW 8260A
Dibromofluoromethane (Surr)	97.2	‡	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	103.2	‡	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	103.8	‡	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	EXTRACTED		10/20/1998		mmv	754	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<1.6	mg/kg dw	10/25/1998	0.023	kdw	754 1809	SW 8310
Acenaphthylene	<1.6	mg/kg dw	10/25/1998	0.023	kdw	754 1809	SW 8310
Anthracene	<3.2	mg/kg dw	10/25/1998	0.046	kdw	754 1809	SW 8310
Benzo(a)anthracene	<2.4	mg/kg dw	10/25/1998	0.0030	kdw	754 1809	SW 8310
Benzo(b)fluoranthene	<0.59	mg/kg dw	10/25/1998	0.0041	kdw	754 1809	SW 8310

ELV : Elevated reporting limits due to matrix interference.

Parameter	Results	Units	Date of Analysis	Method	Analytic Batch No.	Prep/Run	Method
Benzo (k) fluoranthene	<0.27	mg/kg dw	10/25/1998	0.0039	754	1809	SM 8310
Benzo (a) pyrene	<0.37	mg/kg dw	10/25/1998	0.0053	754	1809	SM 8310
Benzo (ghi) perylene	<3.2	mg/kg dw	10/25/1998	0.046	754	1809	SM 8310
Chrysene	<2.4	mg/kg dw	10/25/1998	0.03	754	1809	SM 8310
Dibenzo (a,h) anthracene	<0.48	mg/kg dw	10/25/1998	0.007	754	1809	SM 8310
Fluoranthene	<1.6	mg/kg dw	10/25/1998	0.023	754	1809	SM 8310
Indeno (1,2,3-cd) pyrene	<0.69	mg/kg dw	10/25/1998	0.0099	754	1809	SM 8310
Naphthalene	<2.0	mg/kg dw	10/25/1998	0.029	754	1809	SM 8310
Phenanthrene	<3.2	mg/kg dw	10/25/1998	0.046	754	1809	SM 8310
Pyrene	<1.6	mg/kg dw	10/25/1998	0.023	754	1809	SM 8310
Surf: p-Terphenyl	Diluted out		10/25/1998	43-125	754	1809	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE vna	373		SM 3540C
PCB-1016	<0.046	mg/kg dw	10/28/1998	0.046	373	46	SM 8082
PCB-1221	<0.046	mg/kg dw	10/28/1998	0.046	373	46	SM 8082
PCB-1232	<0.046	mg/kg dw	10/28/1998	0.046	373	46	SM 8082
PCB-1242	<0.046	mg/kg dw	10/28/1998	0.046	373	46	SM 8082
PCB-1248	<0.046	mg/kg dw	10/28/1998	0.046	373	46	SM 8082
PCB-1254	<0.046	mg/kg dw	10/28/1998	0.046	373	46	SM 8082
PCB-1260	<0.046	mg/kg dw	10/28/1998	0.046	373	46	SM 8082
Decachlorobiphenyl (Surf)	103.0	%	10/28/1998	NA	373	46	SM 8082
2,4,5,6-TCMX (Surf)	84.0	%	10/28/1998	NA	373	46	SM 8082

Date Taken: 10/09/1998  
 Time Taken: 08:40  
 IEPA Cert. No. 100221  
 Date Received: 10/09/1998  
 Time Received: 14:15  
 MNR Cert. No. 999447130

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

Sample Description: B-11 (0-2)  
 Comed-Joliet #29; 1801-023-410

NET Job No.: 98.13172  
 Sample No.: 497458

11/05/1998

ANALYTICAL REPORT

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NATIONAL ENVIRONMENTAL TESTING, INC.





**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. : 497459  
NET Job No.: 98.13172

Sample Description: B-10 (0-2)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 08:50  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
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	10/16/1998	0.10	nwg	175	SW 9045B
Solids, Total	75.0	‡	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	6.0	mg/kg dw	11/02/1998	0.67	mhp	226 668	SW 7060
Barium, ICP	1,080	mg/kg dw	10/29/1998	1.3	jtt	1148 2162	SW 6010B
Cadmium, ICP	7.9	mg/kg dw	10/28/1998	0.67	jtt	1148 2147	SW 6010B
Chromium, ICP	33	mg/kg dw	10/28/1998	2.7	jtt	1148 2132	SW 6010B
Lead, ICP	373	mg/kg dw	10/28/1998	5.3	jtt	1148 2369	SW 6010B
Mercury, CVAA	0.13	mg/kg dw	10/27/1998	0.053	sep	662 767	SW 7471A
Selenium, GFAA	0.56	mg/kg dw	11/03/1998	0.33	mhp	226 555	SW 7740
Silver, AA	<2.7	mg/kg dw	10/27/1998	2.7	sep	485 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Toluene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Dibromofluoromethane (Surr)	103.6	‡	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	96.8	‡	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	87.0	‡	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	<b>EXTRACTED</b>		10/20/1998		mmv	754	SW 3540C
PNAs CMPDS - 8310 NONAQUEOUS	<b>ELV</b>						
Acenaphthene	<1.9	mg/kg dw	10/25/1998	0.027	kdw	754 1809	SW 8310
Acenaphthylene	<1.9	mg/kg dw	10/25/1998	0.027	kdw	754 1809	SW 8310
Anthracene	<3.7	mg/kg dw	10/25/1998	0.053	kdw	754 1809	SW 8310
Benzo (a)anthracene	<5.3	mg/kg dw	10/25/1998	0.0035	kdw	754 1809	SW 8310
Benzo (b)fluoranthene	<0.52	mg/kg dw	10/25/1998	0.0048	kdw	754 1809	SW 8310

ELV : Elevated reporting limits due to matrix interference.

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Method
Benzo (k) Fluoranthene	<0.32	mg/kg dw	10/25/1998	0.0045	kdw	754 1809	SM 8310
Benzo (a) pyrene	<0.79	mg/kg dw	10/25/1998	0.0061	kdw	754 1809	SM 8310
Benzo (ghi) perylene	<3.7	mg/kg dw	10/25/1998	0.053	kdw	754 1809	SM 8310
Chrysene	<2.8	mg/kg dw	10/25/1998	0.04	kdw	754 1809	SM 8310
Dibenzo (a,h) anthracene	<0.56	mg/kg dw	10/25/1998	0.008	kdw	754 1809	SM 8310
Fluoranthene	<2.3	mg/kg dw	10/25/1998	0.027	kdw	754 1809	SM 8310
Fluorene	<1.9	mg/kg dw	10/25/1998	0.027	kdw	754 1809	SM 8310
Indeno (1,2,3-cd) pyrene	<0.77	mg/kg dw	10/25/1998	0.011	kdw	754 1809	SM 8310
Naphthalene	<2.3	mg/kg dw	10/25/1998	0.033	kdw	754 1809	SM 8310
Phenanthrene	<3.7	mg/kg dw	10/25/1998	0.053	kdw	754 1809	SM 8310
Pyrene	<1.9	mg/kg dw	10/25/1998	0.027	kdw	754 1809	SM 8310
Surr: p-Terphenyl	Diluted out		10/25/1998	43-125	kdw	754 1809	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	ana	373	SM 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.053	mg/kg dw	10/28/1998	0.053	cl8	373 46	SM 8082
PCB-1221	<0.053	mg/kg dw	10/28/1998	0.053	cl8	373 46	SM 8082
PCB-1232	<0.053	mg/kg dw	10/28/1998	0.053	cl8	373 46	SM 8082
PCB-1242	<0.053	mg/kg dw	10/28/1998	0.053	cl8	373 46	SM 8082
PCB-1248	<0.053	mg/kg dw	10/28/1998	0.053	cl8	373 46	SM 8082
PCB-1254	0.24	mg/kg dw	10/30/1998	0.053	cl8	373 47	SM 8082
PCB-1260	<0.053	mg/kg dw	10/30/1998	0.053	cl8	373 47	SM 8082
Decachlorobiphenyl (Surr)	110.0	%	10/28/1998	NA	cl8	373 46	SM 8082
2,4,5,6-TCDF (Surr)	86.0	%	10/28/1998	NA	cl8	373 46	SM 8082

Date Taken: 10/09/1998  
 Time Taken: 08:50  
 IRPA Cert. No. 100221  
 Date Received: 10/09/1998  
 Time Received: 14:15  
 WDNR Cert. No. 999447130

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

Sample No.: 497459  
 NET Job No.: 98.13172

Sample Description: B-10 (0-2)  
 Comed-Joliet #29; 1801-023-410

ANALYTICAL REPORT

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NATIONAL ENVIRONMENTAL  
 TESTING, INC.





**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. : 497460  
NET Job No.: 98.13172

Sample Description: B-9 (0-3)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/09/1998  
Time Taken: 09:05  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 14:15  
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	10/16/1998	0.10	nwg	175	SW 9045B
Solids, Total	93.3	†	11/02/1998	0.1	efw	2514	SM 2540
Arsenic, GFAA	5.6	mg/kg dw	11/02/1998	0.54	mhp	226 668	SW 7060
Barium, ICP	332	mg/kg dw	10/30/1998	1.1	jtc	1153 2169	SW 6010B
Cadmium, ICP	1.3	mg/kg dw	10/31/1998	0.54	jtc	1153 2155	SW 6010B
Chromium, ICP	20	mg/kg dw	10/31/1998	2.1	jtc	1153 2140	SW 6010B
Lead, ICP	86	mg/kg dw	11/02/1998	4.3	jtc	1153 2382	SW 6010B
Mercury, CVAA	0.20	mg/kg dw	10/27/1998	0.043	sep	662 767	SW 7471A
Selenium, GFAA	0.44	mg/kg dw	11/03/1998	0.27	mhp	226 556	SW 7740
Silver, AA	<2.1	mg/kg dw	10/27/1998	2.1	sep	485 567	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/22/1998	0.005	jap	46	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/22/1998	0.005	jap	46	SW 8260A
Toluene	<0.005	mg/kg dw	10/22/1998	0.005	jap	46	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/22/1998	0.005	jap	46	SW 8260A
Dibromofluoromethane (Surr)	97.6	†	10/22/1998	81-129	jap	46	SW 8260A
Toluene-d8 (Surr)	102.4	†	10/22/1998	74-129	jap	46	SW 8260A
4-Bromofluoromethane (Surr)	102.6	†	10/22/1998	70-130	jap	46	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	EXTRACTED		10/20/1998		mmv	754	SW 3540C
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<1.7	mg/kg dw	10/25/1998	0.021	kdw	754 1809	SW 8310
Acenaphthylene	<1.7	mg/kg dw	10/25/1998	0.021	kdw	754 1809	SW 8310
Anthracene	<3.4	mg/kg dw	10/25/1998	0.043	kdw	754 1809	SW 8310
Benzo(a)anthracene	<1.6	mg/kg dw	10/25/1998	0.0028	kdw	754 1809	SW 8310
Benzo(b)fluoranthene	0.44	mg/kg dw	10/25/1998	0.0039	kdw	754 1809	SW 8310

ELV : Elevated reporting limits due to matrix interference.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

Rockford Division  
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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
 ENSR  
 740 Pasquinielli Drive  
 Westmont, IL 60555  
 Sample No. : 497460  
 NET Job No. : 98.13172

Sample Description: B-9 (0-3) Comed-Joliet #29; 1801-023-410  
 Date Taken: 10/09/1998  
 Time Taken: 09:05  
 EPA Cert. No. 100221  
 Date Received: 10/09/1998  
 Time Received: 14:15  
 MDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Method
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Benzo (k) Fluoranthene	0.40	mg/kg dw	10/25/1998	0.0036	KDW	754	1809	SM 8310
Benzo (a) Pyrene	<0.65	mg/kg dw	10/25/1998	0.0049	KDW	754	1809	SM 8310
Benzo (ghi) perylene	<3.4	mg/kg dw	10/25/1998	0.043	KDW	754	1809	SM 8310
Chrysene	<2	mg/kg dw	10/25/1998	0.03	KDW	754	1809	SM 8310
Dibenz (a,h) anthracene	<0.5	mg/kg dw	10/25/1998	0.006	KDW	754	1809	SM 8310
Fluoranthene	<1.7	mg/kg dw	10/25/1998	0.021	KDW	754	1809	SM 8310
Fluorene	<1.7	mg/kg dw	10/25/1998	0.021	KDW	754	1809	SM 8310
Indeno (1,2,3-cd) pyrene	<0.74	mg/kg dw	10/25/1998	0.0092	KDW	754	1809	SM 8310
Naphthalene	<2.1	mg/kg dw	10/25/1998	0.027	KDW	754	1809	SM 8310
Phenanthrene	<3.4	mg/kg dw	10/25/1998	0.043	KDW	754	1809	SM 8310
Pyrene	<1.7	mg/kg dw	10/25/1998	0.021	KDW	754	1809	SM 8310
Surr: p-Terphenyl	Diluted out		10/25/1998	43-125	KDW	754	1809	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	WMA	373		SM 3540C
PCB's NON-AQUEOUS								
PCB-1016	<0.043	mg/kg dw	10/28/1998	0.043	CLM	373	46	SM 8082
PCB-1221	<0.043	mg/kg dw	10/28/1998	0.043	CLM	373	46	SM 8082
PCB-1242	0.045	mg/kg dw	11/04/1998	0.043	CLM	373	51	SM 8082
PCB-1248	<0.043	mg/kg dw	11/04/1998	0.043	CLM	373	51	SM 8082
PCB-1254	<0.043	mg/kg dw	11/04/1998	0.043	CLM	373	51	SM 8082
PCB-1260	0.068	mg/kg dw	11/04/1998	0.043	CLM	373	51	SM 8082
Decachlorobiphenyl (Surr)	92.0	%	10/28/1998	NA	CLM	373	46	SM 8082
2,4,5,6-TCMX (Surr)	79.0	%	10/28/1998	NA	CLM	373	46	SM 8082



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13172

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
pH, Non-Aqueous	174	7.00	6.93	99.0
pH, Non-Aqueous	175	7.00	6.93	99.0
Arsenic, GFAA	666	0.0250	0.0226	90.4
Arsenic, GFAA	668	0.0250	0.0262	104.8
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
Cadmium, ICP	2147	1.00	1.05	105.0
Chromium, ICP	2132	2.00	2.12	106.0
Lead, ICP	2369	2.00	2.09	104.5
Lead, ICP	2382	2.00	2.04	102.0
Mercury, CVAA	767	0.0025	0.00230	92.0
Selenium, GFAA	552	0.0500	0.0492	98.4
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
UST VOLATILES NON-AQUEOUS				
Benzene	45	50.0	54.9	109.8
Ethylbenzene	45	50.0	57.0	114.0
Toluene	45	50.0	55.4	110.8
Xylenes, Total	45	150	164	109.3
UST VOLATILES NON-AQUEOUS				
Benzene	46	50.0	56.6	113.2
Ethylbenzene	46	50.0	59.2	118.4
Toluene	46	50.0	57.6	115.2
Xylenes, Total	46	150	169	112.7
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1809	5000	4,983	99.7
Acenaphthylene	1809	5000	5,153	103.1
Anthracene	1809	5000	5,288	105.8
Benzo(a)anthracene	1809	5000	5,181	103.6
Benzo(b)fluoranthene	1809	5000	4,857	97.1
Benzo(k)fluoranthene	1809	5000	4,828	96.6
Benzo(a)pyrene	1809	5000	4,929	98.6

CCV - Continuing Calibration Verification



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**QUALITY CONTROL REPORT**

**CONTINUING CALIBRATION VERIFICATION**

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

11/05/1998

NET Job Number: 98.13172

Run	Batch	True	Conc.	Found	Recovery
CV	Number	Conc.	Conc.	Percent	

1809	1809	5000	4,799	96.0	
Benzo (ghi) perylene					
1809	1809	5000	5,115	102.3	
Chrysene					
1809	1809	5000	4,909	98.2	
Dibenzo (a,h) anthracene					
1809	1809	5000	4,866	97.3	
Fluoranthene					
1809	1809	5000	4,873	97.5	
Fluorene					
1809	1809	5000	4,793	95.9	
Indeno (1,2,3-cd) pyrene					
1809	1809	5000	5,094	101.9	
Naphthalene					
1809	1809	5000	4,952	99.0	
Phenanthrene					
1809	1809	5000	5,042	100.8	
Pyrene					
1809	1809	5000	4,955	99.1	
Surr: p-Terphenyl					
1809	1809	5000	5,078	101.6	
Acenaphthene					
1809	1809	5000	5,189	103.8	
Acenaphthylene					
1809	1809	5000	5,118	102.4	
Anthracene					
1809	1809	5000	5,087	101.7	
Benzo (a) anthracene					
1809	1809	5000	4,860	97.2	
Benzo (b) Fluoranthene					
1809	1809	5000	4,816	96.3	
Benzo (k) Fluoranthene					
1809	1809	5000	4,866	97.3	
Benzo (a) pyrene					
1809	1809	5000	4,746	94.9	
Benzo (ghi) perylene					
1809	1809	5000	5,231	104.6	
Chrysene					
1809	1809	5000	4,904	98.1	
Dibenzo (a,h) anthracene					
1809	1809	5000	4,884	97.7	
Fluoranthene					
1809	1809	5000	4,846	96.9	
Fluorene					
1809	1809	5000	4,812	96.2	
Indeno (1,2,3-cd) pyrene					
1809	1809	5000	5,120	102.4	
Naphthalene					
1809	1809	5000	4,915	98.3	
Phenanthrene					
1809	1809	5000	5,108	102.2	
Pyrene					
1809	1809	5000	4,968	99.4	
Surr: p-Terphenyl					
1809	1809	5000	5,057	101.1	
Acenaphthene					
1809	1809	5000	5,034	100.7	
Acenaphthylene					
1809	1809	5000	5,125	102.5	
Anthracene					
1809	1809	5000	5,124	102.5	
Benzo (a) anthracene					
1809	1809	5000	5,126	102.5	
Benzo (b) Fluoranthene					

CV - 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: 98.13172

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo (k) fluoranthene	1809	5000	5,055	101.1
Benzo (a) pyrene	1809	5000	4,854	97.1
Benzo (ghi) perylene	1809	5000	4,751	95.0
Chrysene	1809	5000	5,158	103.2
Dibenzo (a, h) anthracene	1809	5000	4,921	98.4
Fluoranthene	1809	5000	5,052	101.0
Fluorene	1809	5000	4,874	97.5
Indeno (1, 2, 3-cd) pyrene	1809	5000	4,849	97.0
Naphthalene	1809	5000	5,073	101.5
Phenanthrene	1809	5000	4,973	99.5
Pyrene	1809	5000	5,181	103.6
Surr: p-Terphenyl	1809	5000	4,978	99.6
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1809	5000	5,093	101.9
Acenaphthylene	1809	5000	5,074	101.5
Anthracene	1809	5000	5,099	102.0
Benzo (a) anthracene	1809	5000	5,401	108.0
Benzo (b) fluoranthene	1809	5000	4,995	99.9
Benzo (k) fluoranthene	1809	5000	4,950	99.0
Benzo (a) pyrene	1809	5000	4,951	99.0
Benzo (ghi) perylene	1809	5000	4,787	95.7
Chrysene	1809	5000	5,296	105.9
Dibenzo (a, h) anthracene	1809	5000	4,904	98.1
Fluoranthene	1809	5000	5,038	100.8
Fluorene	1809	5000	4,880	97.6
Indeno (1, 2, 3-cd) pyrene	1809	5000	4,809	96.2
Naphthalene	1809	5000	5,088	101.8
Phenanthrene	1809	5000	4,969	99.4
Pyrene	1809	5000	5,211	104.2
Surr: p-Terphenyl	1809	5000	5,156	103.1
PCB'S NON-AQUEOUS				
PCB-1016	46	500	519	103.8
PCB-1260	46	500	519	103.8
PCB'S NON-AQUEOUS				

CCV - Continuing Calibration Verification



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**QUALITY CONTROL REPORT**

**CONTINUING CALIBRATION VERIFICATION**

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

11/05/1998

NET Job Number: 98.13172

Run	Batch	Conc.	True	Conc.	Found	Recovery	Analyte
	Number	Conc.	Conc.	Conc.	Conc.	Percent	

46	46	500	472	472	94.4	94.4	PCB-1016
46	46	500	492	492	98.4	98.4	PCB-1260
46	46	500	478	478	95.6	95.6	PCB'S NON-AQUEOUS
46	46	500	476	476	95.2	95.2	PCB-1016
46	46	500	505	505	101.0	101.0	PCB-1260
46	46	500	500	500	100.0	100.0	PCB'S NON-AQUEOUS
46	46	500	487	487	97.4	97.4	PCB-1016
46	46	500	489	489	97.8	97.8	PCB-1260
47	47	500	502	502	100.4	100.4	PCB'S NON-AQUEOUS
47	47	500	479	479	95.8	95.8	PCB-1260
47	47	500	470	470	94.0	94.0	PCB'S NON-AQUEOUS
47	47	500	470	470	94.0	94.0	PCB-1260
47	47	500	470	470	94.0	94.0	PCB'S NON-AQUEOUS
47	47	500	494	494	98.8	98.8	PCB-1260
51	51	500	477	477	95.4	95.4	PCB'S NON-AQUEOUS
51	51	500	473	473	94.6	94.6	PCB-1016
51	51	500	501	501	100.2	100.2	PCB'S NON-AQUEOUS
51	51	500	505	505	101.0	101.0	PCB-1260
51	51	500	496	496	99.2	99.2	PCB'S NON-AQUEOUS
51	51	500	485	485	97.0	97.0	PCB-1016

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: 98.13172

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	227	666	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	226	668	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1148	2161	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1153	2169	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1148	2147	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1153	2155	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1148	2132	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1153	2140	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1148	2369	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1153	2380	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	662	767	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	227	551	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	226	555	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	484	567	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	485	567	<2.0	mg/Kg	2.0	SW 7760
UST VOLATILES NON-AQUEOUS						
Benzene		45	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		45	<0.005	mg/Kg	0.005	SW 8260A
Toluene		45	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		45	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		45	101.2	µ	74-134	SW 8260A
Toluene-d8 (Surr)		45	109.8	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		45	106.2	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						
Benzene		46	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		46	<0.005	mg/Kg	0.005	SW 8260A
Toluene		46	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		46	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		46	102.2	µ	74-134	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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**NATIONAL ENVIRONMENTAL TESTING, INC.**



**QUALITY CONTROL REPORT**

**BLANK ANALYSIS**

11/05/1998

NET Job Number: 98.13172

ENSR  
 740 Pasquini Drive  
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 Mr. Wei-Lin Feng

Prep	Batch	Run	Blank	Analysis	Results	Units	Reporting	Limit	Analytical	Method
753	1801	1801	<0.020	mg/Kg	0.020	Acenaphthylene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Acenaphthene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Fluoranthene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Fluoranthene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Dibenzo(a,h)anthracene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Chrysene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Indeno(1,2,3-cd)pyrene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Naphthalene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Phenanthrene	0.020	0.020	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	Pyrene	0.020	0.020	SW	8310
753	1801	1801	80.0	%	43-125	Surr: p-Terphenyl	43-125	43-125	SW	8310
753	1801	1801	<0.020	mg/Kg	0.020	PMA CMPDS - 8310 NONAQUEOUS	0.020	0.020	SW	8310
754	1806	1806	<0.020	mg/Kg	0.020	Acenaphthylene	0.020	0.020	SW	8310
754	1806	1806	<0.020	mg/Kg	0.020	Acenaphthene	0.020	0.020	SW	8310
754	1806	1806	<0.0026	mg/Kg	0.0026	Benzo(a)anthracene	0.0026	0.0026	SW	8310
754	1806	1806	<0.0036	mg/Kg	0.0036	Benzo(b)fluoranthene	0.0036	0.0036	SW	8310
754	1806	1806	<0.0034	mg/Kg	0.0034	Benzo(k)fluoranthene	0.0034	0.0034	SW	8310
754	1806	1806	<0.0046	mg/Kg	0.0046	Benzo(a)pyrene	0.0046	0.0046	SW	8310
754	1806	1806	<0.040	mg/Kg	0.040	Benzo(ghi)perylene	0.040	0.040	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: 98.13172

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
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
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						SW 8310
Acenaphthene	754	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.

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.

Advisory Control Limits for Blanks:

Analyte	Prep	Batch	Run	Batch	Number	Results	Units	Reporting	Method
Acenaphthylene	754	1825	< 0.020	mg/Kg	0.020	SM 8310			
Anthracene	754	1825	< 0.040	mg/Kg	0.040	SM 8310			
Benzo (a) anthracene	754	1825	< 0.0026	mg/Kg	0.0026	SM 8310			
Benzo (b) fluoranthene	754	1825	< 0.0036	mg/Kg	0.0036	SM 8310			
Benzo (k) fluoranthene	754	1825	< 0.0034	mg/Kg	0.0034	SM 8310			
Benzo (a) pyrene	754	1825	< 0.0046	mg/Kg	0.0046	SM 8310			
Benzo (ghi) perylene	754	1825	< 0.040	mg/Kg	0.040	SM 8310			
Chrysene	754	1825	< 0.03	mg/Kg	0.03	SM 8310			
Dibenzo (a,h) anthracene	754	1825	< 0.006	mg/Kg	0.006	SM 8310			
Fluoranthene	754	1825	< 0.020	mg/Kg	0.020	SM 8310			
Fluorene	754	1825	< 0.020	mg/Kg	0.020	SM 8310			
Indeno (1,2,3-cd) pyrene	754	1825	< 0.0086	mg/Kg	0.0086	SM 8310			
Naphthalene	754	1825	< 0.025	mg/Kg	0.025	SM 8310			
Phenanthrene	754	1825	< 0.040	mg/Kg	0.040	SM 8310			
Pyrene	754	1825	< 0.020	mg/Kg	0.020	SM 8310			
Surt: p-Terphenyl	754	1825	90.8...	µ	43-125	SM 8310			
PCB-1016	373	46	< 0.040	mg/Kg	0.040	SM 8082			
PCB-1221	373	46	< 0.040	mg/Kg	0.040	SM 8082			
PCB-1232	373	46	< 0.040	mg/Kg	0.040	SM 8082			
PCB-1242	373	46	< 0.040	mg/Kg	0.040	SM 8082			
PCB-1248	373	46	< 0.040	mg/Kg	0.040	SM 8082			
PCB-1254	373	46	< 0.040	mg/Kg	0.040	SM 8082			
PCB-1260	373	46	< 0.040	mg/Kg	0.040	SM 8082			
Decachlorobiphenyl (Surr)	373	46	91.0	µ	NA	SM 8082			
2,4,5,6-TCMX (Surr)	373	46	72.0	µ	NA	SM 8082			
PCB'S NON-AQUEOUS	374	51	< 0.040	mg/Kg	0.040	SM 8082			
PCB-1016	374	51	< 0.040	mg/Kg	0.040	SM 8082			
PCB-1221	374	51	< 0.040	mg/Kg	0.040	SM 8082			

ENSR  
 740 Pasquini Drive  
 Westmont, IL 60559  
 Mr. Wei-Lin Feng  
 NET Job Number: 98.13172  
 11/05/1998

QUALITY CONTROL REPORT  
 BLANK ANALYSIS

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13172

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting Limit	Analytical Method
	Batch Number	Batch Number	Analysis Results			
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	µ	NA	SW 8082
2,4,5,6-TCMX (Surr)	374	51	65.0	µ	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.

MWG13-15\_23387



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**QUALITY CONTROL REPORT**  
**LABORATORY CONTROL STANDARD**

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

11/05/1998  
 NET Job Number: 98.13172

Analyte	Prep Run	Batch Number	Batch Number	True Conc.	Found Conc.	ICS & Recovery
Arsenic, GFAA	227	666	0.0100	0.0096	96.0	
Arsenic, GFAA	226	668	0.0100	0.0110	110.0	
Barium, ICP	1148	2162	5.00	4.80	96.0	
Barium, ICP	1153	2169	5.00	5.06	101.2	
Cadmium, ICP	1148	2147	2.50	2.22	88.8	
Cadmium, ICP	1153	2155	2.50	2.52	100.8	
Chromium, ICP	1148	2132	5.00	4.7	94.0	
Chromium, ICP	1153	2140	5.00	5.22	104.4	
Lead, ICP	1148	2369	5.00	4.65	93.0	
Lead, ICP	1153	2380	50.0	52.4	104.8	
Mercury, CVAA	662	767	0.0025	0.00251	100.4	
Mercury, CVAA	767	767	0.0020	0.00220	110.0	
Selenium, GFAA	227	551	0.0100	0.0118	118.0	
Selenium, GFAA	226	555	0.0100	0.0105	105.0	
Silver, AA	484	567	0.1	0.101	101.0	
Silver, AA	567	567	1.0	0.922	92.2	
Silver, AA	485	567	0.1	0.098	98.0	
UST VOLATILES NON-AQUEOUS	45	20.0	20.0	21.8	109.0	
Benzene	45	20.0	20.0	23.1	115.5	
Ethylbenzene	45	20.0	20.0	22.0	110.0	
Toluene	45	20.0	20.0	22.0	110.0	
Xylenes, Total	45	60.0	60.0	66.2	110.3	
Dibromofluoromethane (Surr)	45	50.0	50.0	49.5	99.0	
Toluene-d8 (Surr)	45	50.0	50.0	53.2	106.4	
4-Bromofluoromethane (Surr)	45	50.0	50.0	51.6	103.2	
UST VOLATILES NON-AQUEOUS	46	20.0	20.0	22.1	110.5	
Benzene	46	20.0	20.0	23.5	117.5	
Ethylbenzene	46	20.0	20.0	22.7	113.5	
Toluene	46	20.0	20.0	22.7	113.5	
Xylenes, Total	46	60.0	60.0	67	111.7	
Dibromofluoromethane (Surr)	46	50.0	50.0	53.5	107.0	





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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13172

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS Recovery
Toluene-d8 (Surr)		46	50.0	54.9	109.8
4-Bromofluoromethane (Surr)		46	50.0	54.4	108.8
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	753	1801	0.033	0.028	84.8
Acenaphthylene	753	1801	0.033	0.033	100.0
Anthracene	753	1801	0.033	0.030	90.9
Benzo (a) anthracene	753	1801	0.033	0.029	87.9
Benzo (b) fluoranthene	753	1801	0.033	0.028	84.8
Benzo (k) fluoranthene	753	1801	0.033	0.027	81.8
Benzo (a) pyrene	753	1801	0.033	0.026	78.8
Benzo (ghi) perylene	753	1801	0.033	0.029	87.9
Chrysene	753	1801	0.033	0.029	87.9
Dibenzo (a,h) anthracene	753	1801	0.033	0.028	84.8
Fluoranthene	753	1801	0.033	0.029	87.9
Fluorene	753	1801	0.033	0.029	87.9
Indeno (1,2,3-cd) pyrene	753	1801	0.033	0.028	84.8
Naphthalene	753	1801	0.033	0.026	78.8
Phenanthrene	753	1801	0.033	0.030	90.9
Pyrene	753	1801	0.033	0.028	84.8
Surr: p-Terphenyl	753	1801	2000	1,651	82.6
PNA CMPDS - 8310 NONAQUEOUS					
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



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

11/05/1998

NET Job Number: 98.13172

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

Analyte	Prep Run	Batch Number	Batch Number	True Conc.	Found Conc.	LCS & Recovery
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	
FMA CMPDS - 8310 NONAQUEOUS	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	
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	
FMA CMPDS - 8310 NONAQUEOUS	754	1825	0.033	0.029	87.9	
Acenaphthene	754	1825	0.033	0.033	93.9	
Acenaphthylene	754	1825	0.033	0.031	90.9	
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	0.033	90.9	
Benzo (k) fluoranthene	754	1825	0.033	0.033	90.9	
Benzo (a) pyrene	754	1825	0.033	0.031	93.9	
Benzo (ghi) perylene	754	1825	0.033	0.028	84.8	
Chrysene	754	1825	0.033	0.032	97.0	
Dibenzo (a,h) anthracene	754	1825	0.033	0.030	90.9	
Fluoranthene	754	1825	0.033	0.025	75.8	
Fluorene	754	1825	0.033	0.033	100.0	
Indeno (1,2,3-cd)pyrene	754	1825	0.033	0.049	148.5	
Naphthalene	754	1825	0.033	0.027	81.8	
Phenanthrene	754	1825	0.033	0.029	87.9	
Pyrene	754	1825	0.033	0.029	87.9	
Surr: p-Terphenyl	754	1825	2000	2000	100.0	
FMA CMPDS - 8310 NONAQUEOUS	754	1825	0.033	0.029	87.9	
Acenaphthene	754	1825	0.033	0.033	93.9	
Acenaphthylene	754	1825	0.033	0.031	90.9	
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	0.030	90.9	
Benzo (k) fluoranthene	754	1825	0.033	0.030	90.9	
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Chrysene	754	1825	0.033	0.032	97.0	
Dibenzo (a,h) anthracene	754	1825	0.033	0.030	90.9	
Fluoranthene	754	1825	0.033	0.025	75.8	
Fluorene	754	1825	0.033	0.033	100.0	
Indeno (1,2,3-cd)pyrene	754	1825	0.033	0.049	148.5	
Naphthalene	754	1825	0.033	0.027	81.8	
Phenanthrene	754	1825	0.033	0.029	87.9	
Pyrene	754	1825	0.033	0.029	87.9	
Surr: p-Terphenyl	754	1825	2000	2000	100.0	
FMA CMPDS - 8310 NONAQUEOUS	754	1825	0.033	0.029	87.9	
Acenaphthene	754	1825	0.033	0.033	93.9	
Acenaphthylene	754	1825	0.033	0.031	90.9	
Anthracene	754	1825	0.033	0.030	90.9	
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Benzo (b) fluoranthene	754	1825	0.033	0.030	90.9	
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Benzo (a) pyrene	754	1825	0.033	0.031	93.9	
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Naphthalene	754	1825	0.033	0.027	81.8	
Phenanthrene	754	1825	0.033	0.029	87.9	
Pyrene	754	1825	0.033	0.029	87.9	
Surr: p-Terphenyl	754	1825	2000	2000	100.0	
FMA CMPDS - 8310 NONAQUEOUS	754	1825	0.033	0.029	87.9	
Acenaphthene	754	1825	0.033	0.033	93.9	
Acenaphthylene	754	1825	0.033	0.031	90.9	
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Phenanthrene	754	1825	0.033	0.029	87.9	
Pyrene	754	1825	0.033	0.029	87.9	
Surr: p-Terphenyl	754	1825	2000	2000	100.0	
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Acenaphthene	754	1825	0.033	0.033	93.9	
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Pyrene	754	1825	0.033	0.029	87.9	
Surr: p-Terphenyl	754	1825	2000	2000	100.0	
FMA CMPDS - 8310 NONAQUEOUS	754	1825	0.033	0.029	87.9	
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Benzo (a) anthracene	754	1825	0.033	0.032	97.0	
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Acenaphthene	754	1825	0.033	0.033	93.9	
Acenaphthylene	754	1825	0.033	0.031	90.9	
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Benzo (b) fluoranthene	754	1825	0.033	0.030	90.9	
Benzo (k) fluoranthene	754	1825	0.033	0.030	90.9	
Benzo (a) pyrene	754	1825	0.033	0.031	93.9	
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Benzo (a) anthracene	754	1825	0.033	0.032	97.0	
Benzo (b) fluoranthene	754	1825	0.033	0.030	90.9	
Benzo (k) fluoranthene	754	1825	0.033	0.030	90.9	
Benzo (a) pyrene	754	1825	0.033	0.031	93.9	
Benzo (ghi) perylene	754	1825	0.033	0.028	84.8	
Chrysene	754	1825	0.033	0.032	97.0	
Dibenzo (a,h) anthracene	754	1825	0.033	0.030	90.9	
Fluoranthene	754	1825	0.033	0.025	75.8	
Fluorene	754	1825	0.033	0.033	100.0	
Indeno (1,2,3-cd)pyrene	754	1825	0.033	0.049	148.5	
Naphthalene	754	1825	0.033	0.027	81.8	
Phenanthrene	754	1825	0.033	0.029	87.9	
Pyrene	754	1825				



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/05/1998

NET Job Number: 98.13172

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
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	1,766	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 DUPLICATES**

11/05/1998

NET Job Number: 98.13172

Mr. Wei-Lin Feng

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

Prep Run	Matrix	Batch	Spike	Result	Sample	Spike	Amount	Units	Recovery	Result	MSD	Amount	Units	Percent Recovery	MS/MSD
----------	--------	-------	-------	--------	--------	-------	--------	-------	----------	--------	-----	--------	-------	------------------	--------

1803	Acenaphthene	1803	0.028	<0.020	0.033	mg/kg	84.8		0.029	0.033	MSD	87.9	mg/kg	0.033	3.6
1803	Acenaphthylene	1804	0.029	<0.020	0.033	mg/kg	87.9		0.030	0.033	MSD	90.9	mg/kg	0.033	3.4
1804	Anthracene	1804	0.027	<0.040	0.033	mg/kg	81.8		0.030	0.033	MSD	90.9	mg/kg	0.033	10.5
1803	Benzo (a) anthracene	1803	0.028	<0.0026	0.033	mg/kg	84.8		0.031	0.033	MSD	93.9	mg/kg	0.033	10.2
1803	Benzo (b) fluoranthene	1803	0.027	<0.0036	0.033	mg/kg	81.8		0.028	0.033	MSD	84.8	mg/kg	0.033	3.6
1803	Benzo (k) fluoranthene	1803	0.027	<0.0034	0.033	mg/kg	81.8		0.029	0.033	MSD	87.9	mg/kg	0.033	7.2
1803	Benzo (a) pyrene	1803	0.022	<0.0046	0.033	mg/kg	66.7		0.028	0.033	MSD	84.8	mg/kg	0.033	23.9
1803	Benzo (ghi) perylene	1803	0.025	<0.040	0.033	mg/kg	75.8		0.024	0.033	MSD	72.7	mg/kg	0.033	4.2
1804	Chrysene	1804	0.024	<0.03	0.033	mg/kg	72.7		0.028	0.033	MSD	84.8	mg/kg	0.033	15.4
1803	Dibenz (a,h) anthracene	1803	0.023	<0.006	0.033	mg/kg	69.7		0.027	0.033	MSD	81.8	mg/kg	0.033	16.0
1803	Fluoranthene	1803	0.027	<0.020	0.033	mg/kg	81.8		0.030	0.033	MSD	90.9	mg/kg	0.033	10.5
1803	Fluorene	1803	0.027	<0.020	0.033	mg/kg	81.8		0.030	0.033	MSD	90.9	mg/kg	0.033	10.5
1803	Indeno (1,2,3-cd) pyrene	1803	0.025	<0.0086	0.033	mg/kg	75.8		0.029	0.033	MSD	87.9	mg/kg	0.033	14.8
1803	Naphthalene	1803	0.027	<0.025	0.033	mg/kg	81.8		0.029	0.033	MSD	87.9	mg/kg	0.033	7.2
1803	Phenanthrene	1803	0.028	<0.040	0.033	mg/kg	84.8		0.031	0.033	MSD	93.9	mg/kg	0.033	10.2
1803	Pyrene	1803	0.030	<0.020	0.033	mg/kg	90.9		0.032	0.033	MSD	97.0	mg/kg	0.033	6.5
PMA CIPDS - 8310 NONAQUEOUS															
1806	Acenaphthylene	1806	0.033	<0.023	0.038	mg/kg	87.9		0.033	0.038	MSD	87.9	mg/kg	0.038	0.0
1806	Acenaphthylene	1806	0.037	<0.023	0.038	mg/kg	97.0		0.034	0.038	MSD	90.9	mg/kg	0.038	6.5
1806	Anthracene	1806	<0.040	<0.046	0.038	mg/kg	90.9		<0.040	0.038	MSD	90.9	mg/kg	0.038	0.0
1806	Benzo (a) anthracene	1806	0.037	<0.0030	0.038	mg/kg	97.0		0.037	0.038	MSD	97.0	mg/kg	0.038	0.0
1806	Benzo (b) fluoranthene	1806	0.038	<0.0041	0.038	mg/kg	100.0		0.034	0.038	MSD	90.9	mg/kg	0.038	9.4
1806	Benzo (k) fluoranthene	1806	0.038	<0.0039	0.038	mg/kg	100.0		0.033	0.038	MSD	87.9	mg/kg	0.038	12.8
1806	Benzo (a) pyrene	1806	0.030	<0.0053	0.038	mg/kg	78.8		0.031	0.038	MSD	81.8	mg/kg	0.038	3.7

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



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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: 98.13172

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD		Percent Recovery	MS/MS RPD	
								MSD Spike Amount	MSD Units			
Benzo(ghi)perylene	753	1806	<0.040	<0.046	0.038	mg/kg	90.9	<0.040	0.038	mg/kg	75.8	18.1
Chrysene	753	1806	0.033	<0.03	0.038	mg/kg	87.9	0.034	0.038	mg/kg	90.9	3.4
Dibenzo(a,h)anthracene	753	1806	0.033	<0.007	0.038	mg/kg	87.9	0.034	0.038	mg/kg	90.9	3.4
Fluoranthene	753	1806	0.034	<0.023	0.038	mg/kg	90.9	0.036	0.038	mg/kg	93.9	3.2
Fluorene	753	1806	0.037	<0.023	0.038	mg/kg	97.0	0.034	0.038	mg/kg	90.9	6.5
Indeno(1,2,3-cd)pyrene	753	1806	0.033	<0.0099	0.038	mg/kg	87.9	0.033	0.038	mg/kg	87.9	0.0
Naphthalene	753	1806	0.033	<0.029	0.038	mg/kg	87.9	0.030	0.038	mg/kg	78.8	10.5
Phenanthrene	753	1806	<0.040	<0.046	0.038	mg/kg	93.9	<0.040	0.038	mg/kg	97.0	3.2
Pyrene	753	1806	0.034	<0.023	0.038	mg/kg	90.9	0.034	0.038	mg/kg	90.9	0.0
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	17.5
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	22.5
Naphthalene	754	1809	3.93	<2.1	3.56	mg/kg	110.5	3.60	3.57	mg/kg	100.9	9.1

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



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**QUALITY CONTROL REPORT**

**MATRIX SPIKE/MATRIX SPIKE DUPLICATES**

11/05/1998

NET Job Number: 98.13172

Mr. Wei-Lin Feng

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

Analyte	Prep Run	Batch	Number	Result	Sample Spike	Amount	Units	Recovery	Result	MSD	Amount	Units	Recovery	Percent	MS/MSD
Phenanthrene	754	1809	4.46	<3.4	3.56	mg/kg	125.3	3.86	3.57	108.1	mg/kg	108.1	3.57	95.5	14.7
Pyrene	754	1809	4.30	<1.7	3.56	mg/kg	120.8	3.41	3.57	95.5	mg/kg	95.5	3.57	23.3	23.3
PCB'S NON-AQUEOUS	373	46	401	<0.040	500	mg/kg	80.2	4.19	500	83.8	mg/kg	83.8	500	4.4	4.4
PCB-1260	373	46	549	<0.040	500	mg/kg	109.8	545	500	109.0	mg/kg	109.0	500	0.7	0.7
PCB'S NON-AQUEOUS	373	46	479	<0.040	500	mg/kg	95.8	796	500	159.2	mg/kg	159.2	500	49.6	49.6
PCB-1016	373	46	0.224	0.068	0.179	mg/kg	87.4	0.208	0.179	78.4	mg/kg	78.4	0.179	10.9	10.9
PCB'S NON-AQUEOUS	374	49	354	<0.045	567	mg/kg	62.4	247	567	43.6	mg/kg	43.6	567	35.5	35.5
PCB-1016	374	49	.37	0.212	.189	mg/kg	85.6	.32	.189	55.7	mg/kg	55.7	.189	42.3	42.3
PCB'S NON-AQUEOUS	374	49	463	<0.045	567	mg/kg	81.6	484	567	85.4	mg/kg	85.4	567	4.6	4.6
PCB-1016	374	49	480	<0.045	567	mg/kg	84.6	520	567	91.8	mg/kg	91.8	567	8.2	8.2
PCB-1260	374	49													

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

11/05/1998

NET Job Number: 98.13172

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
pH, Non-Aqueous		174	6.54	6.45	units	1.4
pH, Non-Aqueous		175	5.33	5.40	units	1.3
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.

- (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.

Method References

- 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.
- POL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- % : Percent: To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
- Surf: 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.
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- 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).
- 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/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.
- 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).
- > : Less than; when appearing in the results column indicates the analyte was not detected at or above the reported value.

KEY TO ABBREVIATIONS and METHOD REFERENCES

NET Midwest, Bartlett Division



- (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.



# CHAIN OF CUSTODY RECORD

COMPANY: ENSR  
 ADDRESS: 740 Pasquinielli Dr. Westmont, IL  
 PHONE: (630) 887-1700 FAX: (630) 850-5307  
 PROJECT NAME/LOCATION: Down East Pilot #29  
 PROJECT NUMBER: 1801-023-48  
 PROJECT MANAGER: Wei-Lin Feng/Karen Johns

REPORT TO: Wei-Lin Feng  
 INVOICE TO: \_\_\_\_\_  
 P.O. NO. \_\_\_\_\_  
 NET QUOTE NO. \_\_\_\_\_

SAMPLED BY: Charles Howell  
 SIGNATURE: Charles Howell

(PRINT NAME) \_\_\_\_\_ SIGNATURE \_\_\_\_\_

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCI	# and Type of Containers					OTHER	COMMENTS	
							PH	PNA's	BTEX	PCBs	RCRA Metals			
10/6/16	15:00	B-18(0-1)	S	X										1-4oz, 1-16oz
1	14:45	B-16(0-4)	S	X										
	15:20	B-17(0-2)	S	X										
	15:45	B-15(0-2)	S	X										
	16:00	B-14(0-2)	S	X										
10/6/16	7:35	B-20(0-2)	S	X										1-4oz, 1-16oz
	8:00	B-12(0-1)	S	X										
	8:15	B-19(0-1)	S	X										
	8:40	B-11(0-2)	S	X										
	8:50	B-10(0-2)	S	X										
	9:05	B-9(0-3)	S	X										

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: 0°C 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: Charles Howell DATE: 10/4/18 TIME: 11:00  
 RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 METHOD OF SHIPMENT: Pickup REMARKS: Max 10-day turnaround



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

11/04/1998

NET Job Number: 98.13012

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-Joliet #29; 1801-023-410

Sample Number	Sample Description	Date Taken	Date Received
496623	S-5	10/07/1998	10/07/1998
496624	X-1	10/07/1998	10/07/1998
496625	S-2	10/07/1998	10/07/1998
496626	S-4	10/07/1998	10/07/1998
496627	S-3	10/07/1998	10/07/1998
496628	X-2	10/07/1998	10/07/1998
496629	X-3	10/07/1998	10/07/1998
496630	X-4	10/07/1998	10/07/1998
496631	S-1	10/07/1998	10/07/1998
496632	S-22	10/07/1998	10/07/1998
496633	S-6	10/07/1998	10/07/1998
496634	S-7	10/07/1998	10/07/1998
496635	S-8	10/07/1998	10/07/1998
496636	S-9	10/07/1998	10/07/1998

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

Approved by: *Mary Pearson*  
 Mary Pearson  
 Project Manager

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply 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.

Sample Number	Sample Description	Date Taken	Date Received
496637	X-5	10/07/1998	10/07/1998
496638	S-15	10/07/1998	10/07/1998
496639	S-16	10/07/1998	10/07/1998
496640	S-17	10/07/1998	10/07/1998
496641	X-6	10/07/1998	10/07/1998
496642	S-20	10/07/1998	10/07/1998
496643	S-21	10/07/1998	10/07/1998
496644	S-18	10/07/1998	10/07/1998
496645	S-19	10/07/1998	10/07/1998

Project Description: Comed-Joliet #29; 1801-023-410

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

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

NET Job Number: 98.13012

11/04/1998

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

Bartlett Division  
 850 West Bartlett Rd.  
 Bartlett, IL 60103  
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Rockford Division  
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**NATIONAL  
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## ANALYTICAL REPORT

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

11/04/1998  
Sample No. : 496623  
NET Job No.: 98.13012

Sample Description: S-5  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 09:10  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.62	units	10/12/1998	0.10	nwg	163	SW 9045B
Solids, Total	79.7	‡	10/28/1998	0.1	efw	2501	SM 2540
Arsenic, GFAA	3.3	mg/kg dw	10/17/1998	0.63	mhp	215 653	SW 7060
Barium, ICP	213	mg/kg dw	10/23/1998	1.3	kdw	1138 2150	SW 6010B
Cadmium, ICP	1.4	mg/kg dw	10/15/1998	0.63	kdw	1138 2126	SW 6010B
Chromium, ICP	10	mg/kg dw	10/15/1998	2.5	kdw	1138 2112	SW 6010B
Lead, ICP	75	mg/kg dw	10/15/1998	5.0	kdw	1138 2348	SW 6010B
Mercury, CVAA	<0.050	mg/kg dw	10/23/1998	0.050	sep	657 764	SW 7471A
Selenium, GFAA	0.35	mg/kg dw	10/20/1998	0.31	mhp	215 538	SW 7740
Silver, AA	<2.5	mg/kg dw	10/16/1998	2.5	sep	474 563	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/13/1998		mmv	237	SW 8015M
TPH as Gas	<314	mg/kg dw	11/03/1998	63	bt1	237 485	SW 8015M
TPH as Diesel	<314	mg/kg dw	11/03/1998	63	bt1	237 485	SW 8015M
TPH as Oil	489	PT mg/kg dw	11/03/1998	63	bt1	237 485	SW 8015M
N-octacosane (TPH surr)	144.0	‡	11/03/1998		bt1	237 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/15/1998	0.006	mjo	31	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/15/1998	0.006	mjo	31	SW 8260A
Toluene	<0.006	mg/kg dw	10/15/1998	0.006	mjo	31	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/15/1998	0.006	mjo	31	SW 8260A
Dibromofluoromethane (Surr)	90.2	‡	10/15/1998	81-129	mjo	31	SW 8260A
Toluene-d8 (Surr)	91.4	‡	10/15/1998	74-129	mjo	31	SW 8260A
4-Bromofluoromethane (Surr)	73.8	‡	10/15/1998	70-130	mjo	31	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/12/1998		mmv	748	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 Pasquini Drive  
Westmont, IL 60559  
Sample No. : 496623  
NET Job No. : 98.13012

Sample Description: S-5  
Comed-Joliet #29; 1801-023-410  
Date Taken: 10/07/1998  
Time Taken: 09:10  
EPA Cert. No. 100221  
Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Prep/Run	Analytical Method
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Parameter	Results	Units	Date of Analysis	Method	Prep/Run	Analytical Method
Acenaphthylene	<1.8	mg/kg dw	10/18/1998	keh	748	SM 8310
Acenaphthylene	<1.8	mg/kg dw	10/18/1998	keh	748	SM 8310
Anthracene	<3.5	mg/kg dw	10/18/1998	keh	748	SM 8310
Anthracene	7.4	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo (a) anthracene	5.0	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo (b) fluoranthene	2.5	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo (k) fluoranthene	4.3	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo (a) pyrene	4.0	mg/kg dw	10/18/1998	keh	748	SM 8310
Chrysene	5.4	mg/kg dw	10/18/1998	keh	748	SM 8310
Dibenzo (a,h) anthracene	<0.5	mg/kg dw	10/18/1998	keh	748	SM 8310
Fluoranthene	11	mg/kg dw	10/18/1998	keh	748	SM 8310
Fluorene	<1.8	mg/kg dw	10/18/1998	keh	748	SM 8310
Indeno (1,2,3-cd) pyrene	3.1	mg/kg dw	10/18/1998	keh	748	SM 8310
Naphthalene	<2.3	mg/kg dw	10/18/1998	keh	748	SM 8310
Phenanthrene	4.3	mg/kg dw	10/18/1998	keh	748	SM 8310
Pyrene	9.0	mg/kg dw	10/18/1998	keh	748	SM 8310
Diluted out						
Surr: p-Terphenyl						
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE vna	362	SM 3540C
PCB'S NON-AQUEOUS	<0.050	mg/kg dw	10/14/1998	jr	362	SM 8082
PCB-1016	<0.050	mg/kg dw	10/14/1998	jr	362	SM 8082
PCB-1221	<0.050	mg/kg dw	10/14/1998	jr	362	SM 8082
PCB-1232	<0.050	mg/kg dw	10/14/1998	jr	362	SM 8082
PCB-1242	<0.050	mg/kg dw	10/14/1998	jr	362	SM 8082
PCB-1248	<0.050	mg/kg dw	10/14/1998	jr	362	SM 8082
PCB-1254	<0.050	mg/kg dw	10/14/1998	jr	362	SM 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

11/04/1998  
Sample No. : 496623  
NET Job No.: 98.13012

Sample Description: S-5  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 09:10  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	10/14/1998	0.050	jrs	362 34	SW 8082
Decachlorobiphenyl (Surr)	110.0	µ	10/14/1998	NA	jrs	362 34	SW 8082
2,4,5,6-TCMX (Surr)	107.0	µ	10/14/1998	NA	jrs	362 34	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinielli Drive  
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Sample No. : 496624  
NET Job No. : 98.13012  
Date Taken: 10/07/1998  
Time Taken: 09:20  
Date Received: 10/07/1998  
Time Received: 16:40  
Date Taken: 10/07/1998  
Time Taken: 09:20  
Date Received: 10/07/1998  
Time Received: 16:40  
Sample Description: X-1  
Comed-Joliet #29; 1801-023-410  
Date Taken: 10/07/1998  
Time Taken: 09:20  
Date Received: 10/07/1998  
Time Received: 16:40  
MDNR Cert. No. 999447130

Parameter Results Units Date of Analysis Method Analyst Batch No. Analytical Method

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PH, Non-Aqueous Solids, Total	7.66	units	10/12/1998	POL	mmv	237	SM 9045B
Arsenic, GRA	<8.0	mg/kg dw	10/17/1998	mhp	mmv	237	SM 7060
Barium, ICP	800	mg/kg dw	10/23/1998	kdw	mmv	237	SM 6010B
Cadmium, ICP	<3.3	mg/kg dw	10/15/1998	kdw	mmv	237	SM 6010B
Chromium, ICP	35	mg/kg dw	10/15/1998	kdw	mmv	237	SM 6010B
Lead, ICP	45	mg/kg dw	10/15/1998	kdw	mmv	237	SM 6010B
Mercury, CVA	<0.27	mg/kg dw	10/23/1998	sep	mmv	237	SM 7471A
Selenium, GFAA	<1.7	mg/kg dw	10/20/1998	mhp	mmv	237	SM 7740
Silver, AA	<13	mg/kg dw	10/16/1998	sep	mmv	237	SM 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/13/1998		mmv	237	SM 8015M
TPH as Gas	<33,000	mg/kg dw	10/31/1998	bcl	bcl	237	SM 8015M
TPH as Diesel	<33,000	mg/kg dw	10/31/1998	bcl	bcl	237	SM 8015M
TPH as Oil	193,000	PT	10/31/1998	bcl	bcl	237	SM 8015M
N-octacosane (TPH surr)	Diluted out		10/31/1998	bcl	bcl	237	SM 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.03	mg/kg dw	10/15/1998	Jap	Jap	31	SM 8260A
Ethylbenzene	<0.03	mg/kg dw	10/15/1998	Jap	Jap	31	SM 8260A
Toluene	<0.03	mg/kg dw	10/15/1998	Jap	Jap	31	SM 8260A
Xylenes, Total	<0.03	mg/kg dw	10/15/1998	Jap	Jap	31	SM 8260A
Dibromofluoromethane (Surr)	82.0	%	10/15/1998	Jap	Jap	31	SM 8260A
Toluene-d8 (Surr)	88.0	%	10/15/1998	Jap	Jap	31	SM 8260A
4-Bromofluoromethane (Surr)	66.0	%	10/15/1998	Jap	Jap	31	SM 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/12/1998		mmv	748	SM 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-analyses.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
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11/04/1998  
Sample No. : 496624  
NET Job No.: 98.13012

Sample Description: X-1  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 09:20  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<12	mg/kg dw	10/18/1998	0.13	keh	748 1798	SW 8310
Acenaphthylene	<12	mg/kg dw	10/18/1998	0.13	keh	748 1798	SW 8310
Anthracene	<24	mg/kg dw	10/18/1998	0.27	keh	748 1798	SW 8310
Benzo (a) anthracene	<8.0	mg/kg dw	10/18/1998	0.017	keh	748 1798	SW 8310
Benzo (b) fluoranthene	<2.1	mg/kg dw	10/18/1998	0.024	keh	748 1798	SW 8310
Benzo (k) fluoranthene	<2.1	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Benzo (a) pyrene	<2.7	mg/kg dw	10/18/1998	0.031	keh	748 1798	SW 8310
Benzo (ghi) perylene	<24	mg/kg dw	10/18/1998	0.27	keh	748 1798	SW 8310
Chrysene	<20	mg/kg dw	10/18/1998	0.2	keh	748 1798	SW 8310
Dibenzo (a, h) anthracene	<3	mg/kg dw	10/18/1998	0.04	keh	748 1798	SW 8310
Fluoranthene	<12	mg/kg dw	10/18/1998	0.13	keh	748 1798	SW 8310
Fluorene	<12	mg/kg dw	10/18/1998	0.13	keh	748 1798	SW 8310
Indeno (1, 2, 3-cd) pyrene	<5.1	mg/kg dw	10/18/1998	0.057	keh	748 1798	SW 8310
Naphthalene	<15	mg/kg dw	10/18/1998	0.17	keh	748 1798	SW 8310
Phenanthrene	<24	mg/kg dw	10/18/1998	0.27	keh	748 1798	SW 8310
Pyrene	<12	mg/kg dw	10/18/1998	0.13	keh	748 1798	SW 8310
Surr: p-Terphenyl	Diluted out		10/18/1998	43-125	keh	748 1798	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/11/1998	COMPLETE	wna	362	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.53	mg/kg dw	10/14/1998	0.27	jrs	362 34	SW 8082
PCB-1221	<0.53	mg/kg dw	10/14/1998	0.27	jrs	362 34	SW 8082
PCB-1232	<0.53	mg/kg dw	10/14/1998	0.27	jrs	362 34	SW 8082
PCB-1242	<0.53	mg/kg dw	10/14/1998	0.27	jrs	362 34	SW 8082
PCB-1248	<0.53	mg/kg dw	10/14/1998	0.27	jrs	362 34	SW 8082
PCB-1254	<0.53	mg/kg dw	10/14/1998	0.27	jrs	362 34	SW 8082

ELV : Elevated reporting limits due to matrix interference.

Mr. Wei-Lin Feng  
 ENSR  
 740 Pasquinielli Drive  
 Westmont, IL 60559  
 Sample No. : 496624  
 NET Job No. : 98.13012  
 Date Taken: 10/07/1998  
 Time Taken: 09:20  
 EPA Cert. No. 100221  
 Date Received: 10/07/1998  
 Time Received: 16:40  
 MDNR Cert. No. 999447130  
 Sample Description: X-1  
 Combd-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	POL	Method	Analyst	Batch No.	Prep/Run	Analytical Method
PCB-1260	<0.53	mg/kg dw	10/16/1998	0.27	Jrs	362	34	SM 8082	
Decachlorobiphenyl (Surr)	114.0	μ	10/16/1998	NA	Jrs	362	34	SM 8082	
2,4,5,6-TCMX (Surr)	88.0	μ	10/16/1998	NA	Jrs	362	34	SM 8082	

ANALYTICAL REPORT

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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496625  
NET Job No.: 98.13012

Sample Description: S-2  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 09:40  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.37	units	10/12/1998	0.10	nwg	164	SW 9045B
Solids, Total	88.2	%	10/28/1998	0.1	efw	2501	SM 2540
Arsenic, GPAA	2.0	mg/kg dw	10/17/1998	0.57	mhp	215 653	SW 7060
Barium, ICP	110	mg/kg dw	10/23/1998	1.1	kdw	1138 2150	SW 6010B
Cadmium, ICP	<0.57	mg/kg dw	10/15/1998	0.57	kdw	1138 2126	SW 6010B
Chromium, ICP	5.2	mg/kg dw	10/15/1998	2.3	kdw	1138 2112	SW 6010B
Lead, ICP	8.7	mg/kg dw	10/15/1998	4.5	kdw	1138 2348	SW 6010B
Mercury, CVAA	1.5	mg/kg dw	10/20/1998	0.045	sep	657 760	SW 7471A
Selenium, GPAA	0.33	mg/kg dw	10/20/1998	0.28	mhp	215 538	SW 7740
Silver, AA	<2.3	mg/kg dw	10/16/1998	2.3	sep	474 563	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/13/1998		mmv	237	SW 8015M
TPH as Gas	136,000 PT	mg/kg dw	10/31/1998	57	bt1	237 484	SW 8015M
TPH as Diesel	<5,670	mg/kg dw	10/31/1998	57	bt1	237 484	SW 8015M
TPH as Oil	<5,670	mg/kg dw	10/31/1998	57	bt1	237 484	SW 8015M
N-octacosane (TPH surr)	Diluted out		10/31/1998		bt1	237 484	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<11	mg/kg dw	10/18/1998	0.006	mjo	34	SW 8260A
Ethylbenzene	57	mg/kg dw	10/18/1998	0.006	mjo	34	SW 8260A
Toluene	37	mg/kg dw	10/18/1998	0.006	mjo	34	SW 8260A
Xylenes, Total	442	mg/kg dw	10/18/1998	0.006	mjo	34	SW 8260A
Dibromofluoromethane (Surr)	Diluted out		10/18/1998	81-129	mjo	34	SW 8260A
Toluene-d8 (Surr)	Diluted out		10/18/1998	74-129	mjo	34	SW 8260A
4-Bromofluoromethane (Surr)	Diluted out		10/18/1998	70-130	mjo	34	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/12/1998		mmv	748	SW 3540C

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



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquini Drive  
Westmont, IL 60559  
Sample No. : 496625  
NET Job No. : 98.13012

Sample Description: S-2  
COMED-Joliet #29; 1801-023-410  
Date Taken: 10/07/1998  
Time Taken: 09:40  
Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130  
EPA Cert. No. 100221

Parameter Results Units Date of Analysis Method Analytical Batch No. Method

Parameter	Results	Units	Date of Analysis	Method	Analytical Batch No.	Method
PMA CPDS - 8310 NONAQUEOUS	<10	mg/kg dw	10/18/1998	0.023	keh	SM 8310
Acenaphthene	<10	mg/kg dw	10/18/1998	0.023	keh	SM 8310
Acenaphthylene	<10	mg/kg dw	10/18/1998	0.023	keh	SM 8310
Anthracene	<19	mg/kg dw	10/18/1998	0.045	keh	SM 8310
Benzo (a) anthracene	<7.6	mg/kg dw	10/18/1998	0.0029	keh	SM 8310
Benzo (b) fluorene	<1.8	mg/kg dw	10/18/1998	0.0041	keh	SM 8310
Benzo (k) fluorene	<1.7	mg/kg dw	10/18/1998	0.0039	keh	SM 8310
Benzo (a) pyrene	<2.4	mg/kg dw	10/18/1998	0.0052	keh	SM 8310
Benzo (ghi) perylene	<20	mg/kg dw	10/18/1998	0.045	keh	SM 8310
Chrysene	<11	mg/kg dw	10/18/1998	0.03	keh	SM 8310
Dibenzo (a,h) anthracene	<3	mg/kg dw	10/18/1998	0.007	keh	SM 8310
Fluoranthene	<87	mg/kg dw	10/18/1998	0.023	keh	SM 8310
Fluorene	<68	mg/kg dw	10/18/1998	0.023	keh	SM 8310
Indeno (1,2,3-cd) pyrene	<4.4	mg/kg dw	10/18/1998	0.0098	keh	SM 8310
Naphthalene	363	mg/kg dw	10/18/1998	0.028	keh	SM 8310
Phenanthrene	<52	mg/kg dw	10/18/1998	0.045	keh	SM 8310
Pyrene	<10	mg/kg dw	10/18/1998	0.023	keh	SM 8310
Surt: p-Terphenyl	Diluted out					
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE vna	362	SM 3540C
PCB-1016	<0.091	mg/kg dw	10/14/1998	0.045	jrs	SM 8082
PCB-1221	<0.091	mg/kg dw	10/14/1998	0.045	jrs	SM 8082
PCB-1232	<0.091	mg/kg dw	10/14/1998	0.045	jrs	SM 8082
PCB-1242	<0.091	mg/kg dw	10/14/1998	0.045	jrs	SM 8082
PCB-1248	<0.091	mg/kg dw	10/14/1998	0.045	jrs	SM 8082
PCB-1254	<0.091	mg/kg dw	10/14/1998	0.045	jrs	SM 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

11/04/1998  
Sample No. : 496625  
NET Job No.: 98.13012

Sample Description: S-2  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 09:40  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.091	mg/kg dw	10/14/1998	0.045	jrs	362 34	SW 8082
Decachlorobiphenyl (Surr)	108.0	µ	10/14/1998	NA	jrs	362 34	SW 8082
2,4,5,6-TCMX (Surr)	118.0	µ	10/14/1998	NA	jrs	362 34	SW 8082



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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496626  
NET Job No. : 98.13012

Sample Description: S-4

Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 09:46  
IRPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
MDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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pH, Non-Aqueous	8.90	units	10/12/1998	nwg		164	SM 9045B
Solids, Total	88.3	%	10/28/1998	etw		2501	SM 2540
Arsenic, GFAA	5.5	mg/kg dw	10/17/1998	mhp	215	653	SM 7060
Barium, ICP	193	mg/kg dw	10/23/1998	kdw	1138	2150	SM 6010B
Cadmium, ICP	1.4	mg/kg dw	10/15/1998	kdw	1138	2126	SM 6010B
Chromium, ICP	12	mg/kg dw	10/15/1998	kdw	1138	2112	SM 6010B
Lead, ICP	55	mg/kg dw	10/15/1998	kdw	1138	2348	SM 6010B
Mercury, CVA	0.25	mg/kg dw	10/20/1998	sep	657	760	SM 7471A
Selenium, GFAA	<0.28	mg/kg dw	10/20/1998	mhp	215	538	SM 7740
Silver, AA	<2.3	mg/kg dw	10/16/1998	sep	474	563	SM 7760

Prep, TPH 8015M - NONAQUEOUS extracted 10/13/1998 mmv 237 SM 8015M

TPH as Gas	<5.700	mg/kg dw	10/31/1998	bcl	237	484	SM 8015M
TPH as Diesel	<5.700	mg/kg dw	10/31/1998	bcl	237	484	SM 8015M
TPH as Oil	13.600	mg/kg dw	10/31/1998	bcl	237	484	SM 8015M
N-octacosane (TPH surr)	Diluted out		10/31/1998	bcl	237	484	SM 8015M

DST VOLATILES NON-AQUEOUS

Benzene	<0.006	mg/kg dw	10/17/1998	mjo	35	8260A	SM 8260A
Ethylbenzene	<0.006	mg/kg dw	10/17/1998	mjo	35	8260A	SM 8260A
Toluene	<0.006	mg/kg dw	10/17/1998	mjo	35	8260A	SM 8260A
Xylenes, Total	<0.006	mg/kg dw	10/17/1998	mjo	35	8260A	SM 8260A
Dibromofluoromethane (Surr)	115.8	%	10/17/1998	mjo	35	8260A	SM 8260A
Toluene-d8 (Surr)	88.2	%	10/17/1998	mjo	35	8260A	SM 8260A
4-Bromofluoromethane (Surr)	77.6	%	10/17/1998	mjo	35	8260A	SM 8260A

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

11/04/1998  
Sample No. : 496626  
NET Job No.: 98.13012

Sample Description: S-4  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 09:46  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<2.0	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Acenaphthylene	<2.0	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Anthracene	<4.1	mg/kg dw	10/18/1998	0.045	keh	748 1798	SW 8310
Benzo(a)anthracene	<0.65	mg/kg dw	10/18/1998	0.0029	keh	748 1798	SW 8310
Benzo(b)fluoranthene	<0.36	mg/kg dw	10/18/1998	0.0041	keh	748 1798	SW 8310
Benzo(k)fluoranthene	<0.35	mg/kg dw	10/18/1998	0.0039	keh	748 1798	SW 8310
Benzo(a)pyrene	<0.46	mg/kg dw	10/18/1998	0.0052	keh	748 1798	SW 8310
Benzo(ghi)perylene	<4.1	mg/kg dw	10/18/1998	0.045	keh	748 1798	SW 8310
Chrysene	<3	mg/kg dw	10/18/1998	0.03	keh	748 1798	SW 8310
Dibenzo(a,h)anthracene	<0.6	mg/kg dw	10/18/1998	0.007	keh	748 1798	SW 8310
Fluoranthene	<2.0	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Fluorene	<2.0	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Indeno(1,2,3-cd)pyrene	<0.87	mg/kg dw	10/18/1998	0.0097	keh	748 1798	SW 8310
Naphthalene	<2.5	mg/kg dw	10/18/1998	0.028	keh	748 1798	SW 8310
Phenanthrene	<4.1	mg/kg dw	10/18/1998	0.045	keh	748 1798	SW 8310
Pyrene	<2.0	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Surr: p-Terphenyl	Diluted out		10/18/1998	43-125	keh	748 1798	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/11/1998	COMPLETE	wna	362	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/14/1998	0.045	jrs	362 34	SW 8082
PCB-1221	<0.045	mg/kg dw	10/14/1998	0.045	jrs	362 34	SW 8082
PCB-1232	<0.045	mg/kg dw	10/14/1998	0.045	jrs	362 34	SW 8082
PCB-1242	<0.045	mg/kg dw	10/14/1998	0.045	jrs	362 34	SW 8082
PCB-1248	<0.045	mg/kg dw	10/14/1998	0.045	jrs	362 34	SW 8082
PCB-1254	<0.045	mg/kg dw	10/14/1998	0.045	jrs	362 34	SW 8082

ELV : Elevated reporting limits due to matrix interference.

Mr. Wei-Lin Feng  
 ENSR  
 740 Pasquinielli Drive  
 Westmont, IL 60559  
 Sample No. : 496626  
 NET Job No. : 98.13012  
 Date Taken: 10/07/1998  
 Time Taken: 09:46  
 EPA Cert. No. 100221  
 Date Received: 10/07/1998  
 Time Received: 16:40  
 MDMR Cert. No. 999447130  
 Sample Description: S-4  
 ComEd-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analyze	Method	Analyst	Prep/Run	Analytical Method
PCB-1260	<0.045	mg/kg dw	10/14/1998	0.045	Jrs	362 34	SM 8082
Decachlorobiphenyl (Surr)	108.0	μ	10/14/1998	NA	Jrs	362 34	SM 8082
2,4,5,6-TCMX (Surr)	88.0	μ	10/14/1998	NA	Jrs	362 34	SM 8082

**ANALYTICAL REPORT**

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**NATIONAL ENVIRONMENTAL TESTING, INC.**  
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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496627  
NET Job No.: 98.13012

Sample Description: S-3  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.34	units	10/12/1998	0.10	nwg	164	SW 9045B
Solids, Total	92.6	†	10/29/1998	0.1	efw	2501	SM 2540
Arsenic, GFAA	3.0	mg/kg dw	10/17/1998	0.54	mhp	215 653	SW 7060
Barium, ICP	14	mg/kg dw	10/23/1998	1.1	kdw	1138 2150	SW 6010B
Cadmium, ICP	1.6	mg/kg dw	10/15/1998	0.54	kdw	1138 2126	SW 6010B
Chromium, ICP	7.6	mg/kg dw	10/15/1998	2.2	kdw	1138 2112	SW 6010B
Lead, ICP	27	mg/kg dw	10/15/1998	4.3	kdw	1138 2348	SW 6010B
Mercury, CVAA	0.13	mg/kg dw	10/20/1998	0.043	sep	657 760	SW 7471A
Selenium, GFAA	0.28	mg/kg dw	10/20/1998	0.27	mhp	215 538	SW 7740
Silver, AA	<2.2	mg/kg dw	10/16/1998	2.2	sep	474 563	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/13/1998		mmv	237	SW 8015M
TPH as Gas	<540	mg/kg dw	10/31/1998	54	bt1	237 484	SW 8015M
TPH as Diesel	1,400	PT mg/kg dw	10/31/1998	54	bt1	237 484	SW 8015M
TPH as Oil	9,830	mg/kg dw	10/31/1998	54	bt1	237 484	SW 8015M
N-octacosane (TPH surr)	132.0	†	10/31/1998		bt1	237 484	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/17/1998	0.005	mjo	35	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/17/1998	0.005	mjo	35	SW 8260A
Toluene	<0.005	mg/kg dw	10/17/1998	0.005	mjo	35	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/17/1998	0.005	mjo	35	SW 8260A
Dibromofluoromethane (Surr)	102.8	†	10/17/1998	81-129	mjo	35	SW 8260A
Toluene-d8 (Surr)	96.0	†	10/17/1998	74-129	mjo	35	SW 8260A
4-Bromofluoromethane (Surr)	87.2	†	10/17/1998	70-130	mjo	35	SW 8260A
Prep, 8310 FNAs NON-AQUEOUS	extracted		10/12/1998		mmv	748	SW 3540C

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

ELV : Elevated reporting limits due to matrix interference.

Parameter	Results	Units	Date of Analysis	Method	Method Analytical
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE WMA	SM 3540C
PCB-1016	<0.043	mg/kg dw	10/14/1998	JEK	SM 8082
PCB-1221	<0.043	mg/kg dw	10/14/1998	JEK	SM 8082
PCB-1232	<0.043	mg/kg dw	10/14/1998	JEK	SM 8082
PCB-1242	<0.043	mg/kg dw	10/14/1998	JEK	SM 8082
PCB-1248	<0.043	mg/kg dw	10/14/1998	JEK	SM 8082
PCB-1254	<0.043	mg/kg dw	10/14/1998	JEK	SM 8082
PCB'S NON-AQUEOUS					
Surf: p-Terphenyl	Diluted out		10/18/1998	KEH	SM 8310
Pyrene	1.0	mg/kg dw	10/18/1998	KEH	SM 8310
Phenanthrene	<1.5	mg/kg dw	10/18/1998	KEH	SM 8310
Naphthalene	<0.95	mg/kg dw	10/18/1998	KEH	SM 8310
Indeno (1,2,3-cd)pyrene	<0.32	mg/kg dw	10/18/1998	KEH	SM 8310
Fluorene	<0.76	mg/kg dw	10/18/1998	KEH	SM 8310
Fluoranthene	1.2	mg/kg dw	10/18/1998	KEH	SM 8310
Dibenzo (a,h) anthracene	<0.2	mg/kg dw	10/18/1998	KEH	SM 8310
Chrysene	<1	mg/kg dw	10/18/1998	KEH	SM 8310
Benzo (ghi) perylene	<1.5	mg/kg dw	10/18/1998	KEH	SM 8310
Benzo (a) pyrene	0.55	mg/kg dw	10/18/1998	KEH	SM 8310
Benzo (k) fluoranthene	0.33	mg/kg dw	10/18/1998	KEH	SM 8310
Benzo (b) fluoranthene	0.57	mg/kg dw	10/18/1998	KEH	SM 8310
Benzo (a) anthracene	1.5	mg/kg dw	10/18/1998	KEH	SM 8310
Anthracene	<1.5	mg/kg dw	10/18/1998	KEH	SM 8310
Acenaphthylene	<0.76	mg/kg dw	10/18/1998	KEH	SM 8310
Acenaphthene	<0.76	mg/kg dw	10/18/1998	KEH	SM 8310

Date Taken: 10/07/1998  
 Time Taken: 10:00  
 EPA Cert. No. 100221  
 Date Received: 10/07/1998  
 Time Received: 16:40  
 MDR Cert. No. 999447130

Sample Description: S-3 Comed-Joliet #29; 1801-023-410  
 NET Job No.: 98.13012  
 Sample No.: 496627  
 11/04/1998

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

ANALYTICAL REPORT

**NET**  
 NATIONAL ENVIRONMENTAL TESTING, INC.  
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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496627  
NET Job No.: 98.13012

Sample Description: S-3  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.043	mg/kg dw	10/14/1998	0.043	jrs	362 34	SW 8082
Decachlorobiphenyl (Surr)	108.0	%	10/14/1998	NA	jrs	362 34	SW 8082
2,4,5,6-TCMX (Surr)	98.0	%	10/14/1998	NA	jrs	362 34	SW 8082



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Rockford, IL 61109  
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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496628  
NET Job No. : 98.13012

Sample Description: X-2

Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:10  
IRPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
MDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PH, Non-Aqueous Solids, Total	10.40	units	10/12/1998	POL	nwg	164	SM 9045B
Arsenic, GFAA	5.9	mg/kg dw	10/19/1998		mhp	216	SM 7060
Barium, ICP	2.500	mg/kg dw	10/23/1998		kdw	1139	SM 6010B
Cadmium, ICP	<0.78	mg/kg dw	10/19/1998		jtc	1139	SM 6010B
Chromium, ICP	19	mg/kg dw	10/19/1998		jtc	1139	SM 6010B
Lead, ICP	42	mg/kg dw	10/19/1998		jtc	1139	SM 6010B
Mercury, CVA	<0.063	mg/kg dw	10/20/1998		sep	657	SM 7471A
Selenium, GFAA	<0.39	mg/kg dw	10/20/1998		mhp	216	SM 7740
Silver, AA	<3.1	mg/kg dw	10/16/1998		sep	475	SM 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/13/1998		nwg	237	SM 8015M
TPH MODIFIED 8015							
TPH as Gas	<78	mg/kg dw	10/31/1998		bcl	237	SM 8015M
TPH as Diesel	<78	mg/kg dw	10/31/1998		bcl	237	SM 8015M
TPH as Oil	<78	mg/kg dw	10/31/1998		bcl	237	SM 8015M
N-octacosane (TPH surr.)	115.0	%	10/31/1998		bcl	237	SM 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.008	mg/kg dw	10/17/1998		mjo	35	SM 8260A
Ethylbenzene	<0.008	mg/kg dw	10/17/1998		mjo	35	SM 8260A
Toluene	<0.008	mg/kg dw	10/17/1998		mjo	35	SM 8260A
Xylenes, Total	<0.008	mg/kg dw	10/17/1998		mjo	35	SM 8260A
Dibromofluoromethane (Surr)	86.0	%	10/17/1998		mjo	35	SM 8260A
Toluene-d8 (Surr)	110.0	%	10/17/1998		mjo	35	SM 8260A
4-Bromofluoromethane (Surr)	90.6	%	10/17/1998		mjo	35	SM 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/12/1998		nwg	748	SM 3540C



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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496628  
NET Job No.: 98.13012

Sample Description: X-2  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:10  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMFDS - 8310 NONAQUEOUS							
Acenaphthene	<0.031	mg/kg dw	10/18/1998	0.031	keh	748 1798	SW 8310
Acenaphthylene	<0.031	mg/kg dw	10/18/1998	0.031	keh	748 1798	SW 8310
Anthracene	<0.063	mg/kg dw	10/18/1998	0.063	keh	748 1798	SW 8310
Benzo (a) anthracene	0.0077	mg/kg dw	10/18/1998	0.0041	keh	748 1798	SW 8310
Benzo (b) fluoranthene	<0.0056	mg/kg dw	10/18/1998	0.0056	keh	748 1798	SW 8310
Benzo (k) fluoranthene	<0.0053	mg/kg dw	10/18/1998	0.0053	keh	748 1798	SW 8310
Benzo (a) pyrene	<0.0072	mg/kg dw	10/18/1998	0.0072	keh	748 1798	SW 8310
Benzo (ghi) perylene	<0.063	mg/kg dw	10/18/1998	0.063	keh	748 1798	SW 8310
Chrysene	<0.05	mg/kg dw	10/18/1998	0.05	keh	748 1798	SW 8310
Dibenzo (a, h) anthracene	<0.009	mg/kg dw	10/18/1998	0.009	keh	748 1798	SW 8310
Fluoranthene	<0.031	mg/kg dw	10/18/1998	0.031	keh	748 1798	SW 8310
Fluorene	<0.031	mg/kg dw	10/18/1998	0.031	keh	748 1798	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.013	mg/kg dw	10/18/1998	0.013	keh	748 1798	SW 8310
Naphthalene	<0.039	mg/kg dw	10/18/1998	0.039	keh	748 1798	SW 8310
Phenanthrene	<0.063	mg/kg dw	10/18/1998	0.063	keh	748 1798	SW 8310
Pyrene	<0.031	mg/kg dw	10/18/1998	0.031	keh	748 1798	SW 8310
Surr: p-Terphenyl	76.1	t	10/18/1998	43-125	keh	748 1798	SW 8310
PCB Non-Aqueous Extraction COMPLETE 10/11/1998 COMPLETE wna 362 SW 3540C							
PCB'S NON-AQUEOUS							
PCB-1016	<0.063	mg/kg dw	10/14/1998	0.063	jrs	362 34	SW 8082
PCB-1221	<0.063	mg/kg dw	10/14/1998	0.063	jrs	362 34	SW 8082
PCB-1232	<0.063	mg/kg dw	10/14/1998	0.063	jrs	362 34	SW 8082
PCB-1242	<0.063	mg/kg dw	10/14/1998	0.063	jrs	362 34	SW 8082
PCB-1248	<0.063	mg/kg dw	10/14/1998	0.063	jrs	362 34	SW 8082
PCB-1254	<0.063	mg/kg dw	10/14/1998	0.063	jrs	362 34	SW 8082

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

Sample No. : 496628  
 NET Job No. : 98.13012

Date Taken: 10/07/1998  
 Time Taken: 10:10  
 EPA Cert. No. 100221

Date Received: 10/07/1998  
 Time Received: 16:40  
 MDR Cert. No. 999447130

Sample Description: X-2  
 Combd-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PCB-1260	<0.063	mg/kg dw	10/14/1998	POL	Jrs	362 34	SM 8082
Decachlorobiphenyl (Surr)	106.0	%	10/14/1998	NA	Jrs	362 34	SM 8082
2,4,5,6-TCMX (Surr)	99.0	%	10/14/1998	NA	Jrs	362 34	SM 8082

ANALYTICAL REPORT



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**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496629  
NET Job No.: 98.13012

Sample Description: X-3  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:20  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	10.47	units	10/12/1998	0.10	nwg	164	SW 9045B
Solids, Total	65.6	%	10/29/1998	0.1	efw	2501	SM 2540
Arsenic, GFAA	12	mg/kg dw	10/19/1998	0.76	mhp	216 654	SW 7060
Barium, ICP	2,740	mg/kg dw	10/23/1998	1.5	kdw	1139 2150	SW 6010B
Cadmium, ICP	1.5	mg/kg dw	10/19/1998	0.76	jtt	1139 2127	SW 6010B
Chromium, ICP	30	mg/kg dw	10/19/1998	3.0	jtt	1139 2113	SW 6010B
Lead, ICP	40	mg/kg dw	10/19/1998	6.1	jtt	1139 2349	SW 6010B
Mercury, CVAA	0.075	mg/kg dw	10/20/1998	0.061	sep	657 760	SW 7471A
Selenium, GFAA	0.66	mg/kg dw	10/20/1998	0.38	mhp	216 538	SW 7740
Silver, AA	<3.0	mg/kg dw	10/16/1998	3.0	sep	475 563	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/13/1998		mmv	237	SW 8015M
TPH as Gas	<76	mg/kg dw	11/02/1998	76	bt1	237 485	SW 8015M
TPH as Diesel	<76	mg/kg dw	11/02/1998	76	bt1	237 485	SW 8015M
TPH as Oil	149	PT mg/kg dw	11/02/1998	76	bt1	237 485	SW 8015M
N-octacosane (TPH surr)	114.0	%	11/02/1998		bt1	237 485	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.008	mg/kg dw	10/17/1998	0.008	mjo	35	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	10/17/1998	0.008	mjo	35	SW 8260A
Toluene	<0.008	mg/kg dw	10/17/1998	0.008	mjo	35	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	10/17/1998	0.008	mjo	35	SW 8260A
Dibromofluoromethane (Surr)	90.0	%	10/17/1998	81-129	mjo	35	SW 8260A
Toluene-d8 (Surr)	104.2	%	10/17/1998	74-129	mjo	35	SW 8260A
4-Bromofluoromethane (Surr)	87.2	%	10/17/1998	70-130	mjo	35	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/12/1998		mmv	748	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 Pasquini Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 496629  
NET Job No. : 98.13012

Sample Description: X-3

ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:20  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Analytical Method
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PMA Compds - 8310 NonAqueous  
ETV

Acenaphthylene	<0.2	mg/kg dw	10/18/1998	keh	0.030	748	1798	SM 8310
Acenaphthylene	<0.2	mg/kg dw	10/18/1998	keh	0.030	748	1798	SM 8310
Anthracene	<0.3	mg/kg dw	10/18/1998	keh	0.061	748	1798	SM 8310
Anthracene	<1.5	mg/kg dw	10/18/1998	keh	0.0040	748	1798	SM 8310
Benzo (a) anthracene	<0.21	mg/kg dw	10/18/1998	keh	0.0055	748	1798	SM 8310
Benzo (b) fluoranthene	<0.21	mg/kg dw	10/18/1998	keh	0.0052	748	1798	SM 8310
Benzo (k) fluoranthene	<0.15	mg/kg dw	10/18/1998	keh	0.0070	748	1798	SM 8310
Benzo (a) pyrene	<0.3	mg/kg dw	10/18/1998	keh	0.061	748	1798	SM 8310
Benzo (ghi) perylene	<0.05	mg/kg dw	10/18/1998	keh	0.05	748	1798	SM 8310
Dibenzo (a,h) anthracene	<0.2	mg/kg dw	10/18/1998	keh	0.009	748	1798	SM 8310
Fluoranthene	<0.2	mg/kg dw	10/18/1998	keh	0.030	748	1798	SM 8310
Fluorene	<0.06	mg/kg dw	10/18/1998	keh	0.013	748	1798	SM 8310
Indeno (1,2,3-cd) pyrene	<0.2	mg/kg dw	10/18/1998	keh	0.038	748	1798	SM 8310
Naphthalene	<0.3	mg/kg dw	10/18/1998	keh	0.061	748	1798	SM 8310
Phenanthrene	<0.2	mg/kg dw	10/18/1998	keh	0.030	748	1798	SM 8310
Pyrene	<0.2	mg/kg dw	10/18/1998	keh	0.030	748	1798	SM 8310
Sum: p-Terphenyl	Masked							
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE vna		362		SM 3540C
PCB-1016	<0.061	mg/kg dw	10/13/1998	jsr	0.061	362	31	SM 8082
PCB-1221	<0.061	mg/kg dw	10/13/1998	jsr	0.061	362	31	SM 8082
PCB-1232	<0.061	mg/kg dw	10/13/1998	jsr	0.061	362	31	SM 8082
PCB-1242	<0.061	mg/kg dw	10/13/1998	jsr	0.061	362	31	SM 8082
PCB-1248	<0.061	mg/kg dw	10/13/1998	jsr	0.061	362	31	SM 8082
PCB-1254	<0.061	mg/kg dw	10/13/1998	jsr	0.061	362	31	SM 8082

ETV : Elevated reporting limits due to matrix interference.





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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496629  
NET Job No.: 98.13012

Sample Description: X-3  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:20  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.061	mg/kg dw	10/13/1998	0.061	jrs	362 31	SW 8082
Decachlorobiphenyl (Surr)	93.0	†	10/13/1998	NA	jrs	362 31	SW 8082
2,4,5,6-TCMX (Surr)	83.0	†	10/13/1998	NA	jrs	362 31	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559  
Sample No. : 496630  
NET Job No. : 98.13012  
Sample Description: X-4  
Comed-Joliet #29; 1801-023-410  
Date Taken: 10/07/1998  
Time Taken: 10:25  
IEPA Cert. No. 100221  
Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Method
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PH, Non-Aqueous Solids, Total	9.24	units	10/12/1998	0.10	nwg	164	SM 9045B
Arsenic, GFAA	8.4	mg/kg dw	10/19/1998	0.66	mhp	216	SM 7060
Barium, ICP	1,460	mg/kg dw	10/23/1998	1.3	kdw	1139	SM 6010B
Cadmium, ICP	1.2	mg/kg dw	10/19/1998	0.66	jcc	1139	SM 6010B
Chromium, ICP	24	mg/kg dw	10/19/1998	2.7	jcc	1139	SM 6010B
Lead, ICP	33	mg/kg dw	10/19/1998	5.3	jcc	1139	SM 6010B
Mercury, CVA	0.17	mg/kg dw	10/20/1998	0.053	sep	657	SM 7471A
Selenium, GFAA	0.37	mg/kg dw	10/20/1998	0.33	mhp	216	SM 7740
Silver, AA	<2.7	mg/kg dw	10/16/1998	2.7	sep	475	SM 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/13/1998		mmv	237	SM 8015M
TPH MODIFIED 8015	<66	mg/kg dw	11/03/1998	66	bcl	237	SM 8015M
TPH as Gas	<66	mg/kg dw	11/03/1998	66	bcl	237	SM 8015M
TPH as Diesel	<66	mg/kg dw	11/03/1998	66	bcl	237	SM 8015M
TPH as Oil	112	mg/kg dw	11/03/1998	66	bcl	237	SM 8015M
N-octacosane (TPH surr)	110.0	mg/kg dw	11/03/1998		bcl	237	SM 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/19/1998	0.007	mjo	41	SM 8260A
Ethylbenzene	<0.007	mg/kg dw	10/19/1998	0.007	mjo	41	SM 8260A
Toluene	<0.007	mg/kg dw	10/19/1998	0.007	mjo	41	SM 8260A
Xylenes, Total	<0.007	mg/kg dw	10/19/1998	0.007	mjo	41	SM 8260A
Dibromofluoromethane (Surr)	111.6	mg/kg dw	10/19/1998		mjo	41	SM 8260A
Toluene-d8 (Surr)	106.4	mg/kg dw	10/19/1998		mjo	41	SM 8260A
4-Bromofluoromethane (Surr)	103.6	mg/kg dw	10/19/1998		mjo	41	SM 8260A
Prep, 8310 PMS NON-AQUEOUS	extracted		10/12/1998		mmv	748	SM 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  
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Westmont, IL 60559

11/04/1998  
Sample No. : 496630  
NET Job No. : 98.13012

Sample Description: X-4  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:25  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	<0.40	mg/kg dw	10/18/1998	0.027	keh	748 1798	SW 8310
Acenaphthylene	<0.40	mg/kg dw	10/18/1998	0.027	keh	748 1798	SW 8310
Anthracene	<0.80	mg/kg dw	10/18/1998	0.053	keh	748 1798	SW 8310
Benzo (a) anthracene	<0.37	mg/kg dw	10/18/1998	0.0035	keh	748 1798	SW 8310
Benzo (b) fluoranthene	0.23	mg/kg dw	10/18/1998	0.0048	keh	748 1798	SW 8310
Benzo (k) fluoranthene	<0.16	mg/kg dw	10/18/1998	0.0045	keh	748 1798	SW 8310
Benzo (a) pyrene	<0.092	mg/kg dw	10/18/1998	0.0061	keh	748 1798	SW 8310
Benzo (ghi) perylene	<0.80	mg/kg dw	10/18/1998	0.053	keh	748 1798	SW 8310
Chrysene	<0.5	mg/kg dw	10/18/1998	0.04	keh	748 1798	SW 8310
Dibenzo (a, h) anthracene	<0.1	mg/kg dw	10/18/1998	0.008	keh	748 1798	SW 8310
Fluoranthene	<0.40	mg/kg dw	10/18/1998	0.027	keh	748 1798	SW 8310
Fluorene	<0.40	mg/kg dw	10/18/1998	0.027	keh	748 1798	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.17	mg/kg dw	10/18/1998	0.011	keh	748 1798	SW 8310
Naphthalene	<0.50	mg/kg dw	10/18/1998	0.033	keh	748 1798	SW 8310
Phenanthrene	<0.80	mg/kg dw	10/18/1998	0.053	keh	748 1798	SW 8310
Pyrene	<0.40	mg/kg dw	10/18/1998	0.027	keh	748 1798	SW 8310
Surr: p-Terphenyl	Diluted out		10/18/1998	43-125	keh	748 1798	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE	wna	362	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.053	mg/kg dw	10/13/1998	0.053	jrs	362 31	SW 8082
PCB-1221	<0.053	mg/kg dw	10/13/1998	0.053	jrs	362 31	SW 8082
PCB-1232	<0.053	mg/kg dw	10/13/1998	0.053	jrs	362 31	SW 8082
PCB-1242	<0.053	mg/kg dw	10/13/1998	0.053	jrs	362 31	SW 8082
PCB-1248	<0.053	mg/kg dw	10/13/1998	0.053	jrs	362 31	SW 8082
PCB-1254	<0.053	mg/kg dw	10/13/1998	0.053	jrs	362 31	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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

Sample No. : 496630  
 NET Job No. : 98.13012

Date Taken: 10/07/1998  
 Time Taken: 10:25  
 EPA Cert. No. 100221

Date Received: 10/07/1998  
 Time Received: 16:40  
 MDNR Cert. No. 999447130

Sample Description: X-4  
 ComEd-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	Method	PQL	Analyst	Batch No.	Prep/Run	Method
PCB-1260	<0.053	mg/kg dw	10/13/1998	0.053	Jrs	362	31	SM 8082	
Decachlorobiphenyl (Surr)	92.0	†	10/13/1998	NA	Jrs	362	31	SM 8082	
2,4,5,6-TCMX (Surr)	89.0	†	10/13/1998	NA	Jrs	362	31	SM 8082	

ANALYTICAL REPORT

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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496631  
NET Job No.: 98.13012

Sample Description: S-1  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:35  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.62	units	10/12/1998	0.10	nwg	164	SW 9045B
Solids, Total	92.9	%	10/29/1998	0.1	efw	2501	SM 2540
Arsenic, GFAA	3.4	mg/kg dw	10/19/1998	0.54	mhp	216 654	SW 7060
Barium, ICP	301	mg/kg dw	10/23/1998	1.1	kdw	1139 2150	SW 6010B
Cadmium, ICP	<0.54	mg/kg dw	10/19/1998	0.54	jtt	1139 2127	SW 6010B
Chromium, ICP	30	mg/kg dw	10/19/1998	2.2	jtt	1139 2113	SW 6010B
Lead, ICP	22	mg/kg dw	10/19/1998	4.3	jtt	1139 2349	SW 6010B
Mercury, CVAA	0.072	mg/kg dw	10/20/1998	0.043	sep	657 760	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	10/20/1998	0.27	mhp	216 538	SW 7740
Silver, AA	<2.2	mg/kg dw	10/16/1998	2.2	sep	475 563	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/13/1998		mmv	237	SW 8015M
TPH as Gas	<5,400	mg/kg dw	10/31/1998	54	bt1	237 484	SW 8015M
TPH as Diesel	<5,400	mg/kg dw	10/31/1998	54	bt1	237 484	SW 8015M
TPH as Oil	15,100 PT	mg/kg dw	10/31/1998	54	bt1	237 484	SW 8015M
N-octacosane (TPH surr)	Diluted out		10/31/1998		bt1	237 484	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/19/1998	0.005	mjo	41	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/19/1998	0.005	mjo	41	SW 8260A
Toluene	<0.005	mg/kg dw	10/19/1998	0.005	mjo	41	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/19/1998	0.005	mjo	41	SW 8260A
Dibromofluoromethane (Surr)	116.2	%	10/19/1998	81-129	mjo	41	SW 8260A
Toluene-d8 (Surr)	99.0	%	10/19/1998	74-129	mjo	41	SW 8260A
4-Bromofluoromethane (Surr)	91.2	%	10/19/1998	70-130	mjo	41	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/12/1998		mmv	748	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 Pasquini Drive  
 Westmont, IL 60559

Sample No. : 496631  
 NET Job No. : 98.13012

Sample Description: S-1  
 COMED-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
 Time Taken: 10:35  
 Date Received: 10/07/1998  
 Time Received: 16:40  
 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run Method	Analytical
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Acenaphthene	<0.97	mg/kg dw	10/18/1998	0.022	keh	748	1798	SM 8310
Acenaphthylene	<0.97	mg/kg dw	10/18/1998	0.022	keh	748	1798	SM 8310
Anthracene	<1.9	mg/kg dw	10/18/1998	0.043	keh	748	1798	SM 8310
Benzo (a) anthracene	1.2	mg/kg dw	10/18/1998	0.0028	keh	748	1798	SM 8310
Benzo (b) fluoranthene	0.67	mg/kg dw	10/18/1998	0.0039	keh	748	1798	SM 8310
Benzo (k) fluoranthene	<0.16	mg/kg dw	10/18/1998	0.0037	keh	748	1798	SM 8310
Benzo (a) pyrene	<0.23	mg/kg dw	10/18/1998	0.0050	keh	748	1798	SM 8310
Benzo (ghi) perylene	<1.9	mg/kg dw	10/18/1998	0.043	keh	748	1798	SM 8310
Chrysene	<1	mg/kg dw	10/18/1998	0.03	keh	748	1798	SM 8310
Dibenzo (a,h) anthracene	<0.3	mg/kg dw	10/18/1998	0.006	keh	748	1798	SM 8310
Fluoranthene	1.1	mg/kg dw	10/18/1998	0.022	keh	748	1798	SM 8310
Fluorene	<0.97	mg/kg dw	10/18/1998	0.022	keh	748	1798	SM 8310
Indeno (1,2,3-cd) pyrene	<0.42	mg/kg dw	10/18/1998	0.0093	keh	748	1798	SM 8310
Naphthalene	<1.2	mg/kg dw	10/18/1998	0.027	keh	748	1798	SM 8310
Phenanthrene	<1.9	mg/kg dw	10/18/1998	0.043	keh	748	1798	SM 8310
Pyrene	1.2	mg/kg dw	10/18/1998	0.022	keh	748	1798	SM 8310
Surf: p-Terphenyl	Diluted out							
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE	was	362		SM 3540C
PCB-1016	<0.043	mg/kg dw	10/13/1998	0.043	jrs	362	31	SM 8082
PCB-1221	<0.043	mg/kg dw	10/13/1998	0.043	jrs	362	31	SM 8082
PCB-1232	<0.043	mg/kg dw	10/13/1998	0.043	jrs	362	31	SM 8082
PCB-1242	<0.043	mg/kg dw	10/13/1998	0.043	jrs	362	31	SM 8082
PCB-1248	<0.043	mg/kg dw	10/13/1998	0.043	jrs	362	31	SM 8082
PCB-1254	<0.043	mg/kg dw	10/13/1998	0.043	jrs	362	31	SM 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

11/04/1998

Sample No. : 496631

NET Job No.: 98.13012

Sample Description: S-1  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:35  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.043	mg/kg dw	10/13/1998	0.043	jrs	362 31	SW 8082
Decachlorobiphenyl (Surr)	72.0	†	10/13/1998	NA	jrs	362 31	SW 8082
2,4,5,6-TCMX (Surr)	90.0	†	10/13/1998	NA	jrs	362 31	SW 8082



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**ANALYTICAL REPORT**

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

Sample No. : 496632  
 NET Job No. : 98.13012

Sample Description: S-22

COMED-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
 Time Taken: 10:45  
 IEPA Cert. No. 100221

Date Received: 10/07/1998  
 Time Received: 16:40  
 WDNR Cert. No. 999447130

Parameter Results Units Date of Analysis Method Analyt Batch No. Analytical Method

Parameter	Results	Units	Date of Analysis	Method	Analyt Batch No.	Analytical Method
PH, Non-Aqueous Solids, Total	8.10	units	10/12/1998	PQL	164	SM 90458
Arsenic, GFAA	5.5	mg/kg dw	10/19/1998	mhp	216	SM 7060
Barium, ICP	592	mg/kg dw	10/23/1998	kdw	1139	SM 60108
Cadmium, ICP	0.74	mg/kg dw	10/19/1998	jct	1139	SM 60108
Chromium, ICP	60	mg/kg dw	10/19/1998	jct	1139	SM 60108
Lead, ICP	32	mg/kg dw	10/19/1998	jct	1139	SM 60108
Mercury, CVA	0.063	mg/kg dw	10/20/1998	sep	657	SM 7471A
Selenium, GFAA	0.36	mg/kg dw	10/20/1998	mhp	216	SM 7740
Silver, AA	<2.3	mg/kg dw	10/16/1998	sep	475	SM 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/13/1998	nmv	237	SM 8015M
TPH MODIFIED 8015	<5,800	mg/kg dw	11/03/1998	bcl	237	SM 8015M
TPH as Gas	<5,800	mg/kg dw	11/03/1998	bcl	237	SM 8015M
TPH as Diesel	<5,800	mg/kg dw	11/03/1998	bcl	237	SM 8015M
TPH as Oil	32,500	mg/kg dw	11/03/1998	bcl	237	SM 8015M
N-octacosane (TPH surr)	Diluted out		11/03/1998	bcl	237	SM 8015M
USV VOLATILES NON-AQUEOUS						
Benzene	<0.006	mg/kg dw	10/19/1998	mjo	41	SM 8260A
Ethylbenzene	<0.006	mg/kg dw	10/19/1998	mjo	41	SM 8260A
Toluene	<0.006	mg/kg dw	10/19/1998	mjo	41	SM 8260A
Xylenes, Total	<0.006	mg/kg dw	10/19/1998	mjo	41	SM 8260A
Dibromofluoromethane (Surr)	114.4	µg	10/19/1998	mjo	41	SM 8260A
Toluene-d8 (Surr)	102.6	µg	10/19/1998	mjo	41	SM 8260A
4-Bromofluoromethane (Surr)	104.0	µg	10/19/1998	mjo	41	SM 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/12/1998	nmv	748	SM 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

11/04/1998  
Sample No. : 496632  
NET Job No.: 98.13012

Sample Description: S-22  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:45  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	<10	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Acenaphthylene	<10	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Anthracene	<21	mg/kg dw	10/18/1998	0.046	keh	748 1798	SW 8310
Benzo(a)anthracene	<1.4	mg/kg dw	10/18/1998	0.0030	keh	748 1798	SW 8310
Benzo(b)fluoranthene	<1.9	mg/kg dw	10/18/1998	0.0042	keh	748 1798	SW 8310
Benzo(k)fluoranthene	<1.7	mg/kg dw	10/18/1998	0.0039	keh	748 1798	SW 8310
Benzo(a)pyrene	<2.4	mg/kg dw	10/18/1998	0.0053	keh	748 1798	SW 8310
Benzo(ghi)perylene	<21	mg/kg dw	10/18/1998	0.046	keh	748 1798	SW 8310
Chrysene	<12	mg/kg dw	10/18/1998	0.03	keh	748 1798	SW 8310
Dibenzo(a,h)anthracene	<3	mg/kg dw	10/18/1998	0.007	keh	748 1798	SW 8310
Fluoranthene	<10	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Fluorene	<10	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Indeno(1,2,3-cd)pyrene	<4.5	mg/kg dw	10/18/1998	0.010	keh	748 1798	SW 8310
Naphthalene	<13	mg/kg dw	10/18/1998	0.029	keh	748 1798	SW 8310
Phenanthrene	<21	mg/kg dw	10/18/1998	0.046	keh	748 1798	SW 8310
Pyrene	<10	mg/kg dw	10/18/1998	0.023	keh	748 1798	SW 8310
Surr: p-Terphenyl	Diluted out		10/18/1998	43-125	keh	748 1798	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE	wna	362	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.046	mg/kg dw	10/13/1998	0.046	jrs	362 31	SW 8082
PCB-1221	<0.046	mg/kg dw	10/13/1998	0.046	jrs	362 31	SW 8082
PCB-1232	<0.046	mg/kg dw	10/13/1998	0.046	jrs	362 31	SW 8082
PCB-1242	<0.046	mg/kg dw	10/13/1998	0.046	jrs	362 31	SW 8082
PCB-1248	<0.046	mg/kg dw	10/13/1998	0.046	jrs	362 31	SW 8082
PCB-1254	<0.046	mg/kg dw	10/13/1998	0.046	jrs	362 31	SW 8082

ELV : Elevated reporting limits due to matrix interference.

Date Taken: 10/07/1998  
 Time Taken: 10:45  
 EPA Cert. No. 100221  
 Date Received: 10/07/1998  
 Time Received: 16:40  
 WDNR Cert. No. 999447130

Sample Description: S-22  
 ComEd-Joliet #29; 1801-023-410

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

NET Job No.: 98.13012  
 Sample No.: 496632  
 11/04/1998

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PCB-1260	<0.046	mg/kg dw	10/13/1998	0.046	jrs	362 31	SM 8082
Decachlorobiphenyl (Surr)	32.0	%	10/13/1998	NA	jrs	362 31	SM 8082
2,4,5,6-TCMX (Surr)	79.0	%	10/13/1998	NA	jrs	362 31	SM 8082

ANALYTICAL REPORT

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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496633  
NET Job No.: 98.13012

Sample Description: S-6  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:57  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	10/12/1998	0.10	nwg	164	SW 9045B
Solids, Total	63.7	%	10/29/1998	0.1	efw	2501	SM 2540
Arsenic, GFAA	5.5	mg/kg dw	10/19/1998	0.78	mhp	216 654	SW 7060
Barium, ICP	1,130	mg/kg dw	10/23/1998	1.6	kdw	1139 2150	SW 6010B
Cadmium, ICP	31	mg/kg dw	10/15/1998	0.78	kdw	1139 2126	SW 6010B
Chromium, ICP	68	mg/kg dw	10/15/1998	3.1	kdw	1139 2112	SW 6010B
Lead, ICP	251	mg/kg dw	10/15/1998	6.3	kdw	1139 2348	SW 6010B
Mercury, CVAA	0.16	mg/kg dw	10/20/1998	0.063	sep	657 760	SW 7471A
Selenium, GFAA	0.58	mg/kg dw	10/20/1998	0.39	mhp	216 538	SW 7740
Silver, AA	<3.1	mg/kg dw	10/16/1998	3.1	sep	475 563	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/13/1998		mmv	237	SW 8015M
TPH as Gas	<20,000	mg/kg dw	11/03/1998	78	bt1	237 485	SW 8015M
TPH as Diesel	<20,000	mg/kg dw	11/03/1998	78	bt1	237 485	SW 8015M
TPH as Oil	33,000 PT	mg/kg dw	11/03/1998	78	bt1	237 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/03/1998		bt1	237 485	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.008	mg/kg dw	10/19/1998	0.008	mjo	41	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	10/19/1998	0.008	mjo	41	SW 8260A
Toluene	<0.008	mg/kg dw	10/19/1998	0.008	mjo	41	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	10/19/1998	0.008	mjo	41	SW 8260A
Dibromofluoromethane (Surr)	117.8	%	10/19/1998	81-129	mjo	41	SW 8260A
Toluene-d8 (Surr)	96.8	%	10/19/1998	74-129	mjo	41	SW 8260A
4-Bromofluoromethane (Surr)	90.6	%	10/19/1998	70-130	mjo	41	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/12/1998		mmv	748	SW 3540C

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



NATIONAL ENVIRONMENTAL TESTING, INC.

Barrett Division 850 West Barrett Rd. Bartlett, IL 60103

ANALYTICAL REPORT

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

Sample Description: S-6 Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998 Time Taken: 10:57 EPA Cert. No. 100221

Date Received: 10/07/1998 Time Received: 16:40 WDNR Cert. No. 999447130

Table with columns: Parameter, Results, Units, Date of Analysis, Method, PQL, Analytic Batch No., Prep/Run, Analytical Method

Main data table with columns: Parameter, Results, Units, Date of Analysis, Method, PQL, Analytic Batch No., Prep/Run, Analytical Method

BLV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496633  
NET Job No.: 98.13012

Sample Description: S-6  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 10:57  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.063	mg/kg dw	10/13/1998	0.063	jrs	362 31	SW 8082
Decachlorobiphenyl (Surr)	21.0	RM	10/13/1998	NA	jrs	362 31	SW 8082
2,4,5,6-TCMX (Surr)	87.0	t	10/13/1998	NA	jrs	362 31	SW 8082

RM : Low surrogate recovery 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

Sample No. : 496634  
 NET Job No. : 98.13012

Sample Description: S-7

Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
 Time Taken: 11:05  
 IEPA Cert. No. 100221

Date Received: 10/07/1998  
 Time Received: 16:40  
 MDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Method
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PH, Non-Aqueous Solids, Total	9.22	units	10/13/1998	0.10	nmg	165	SM 9045B
Arsenic, GFAA	3.4	mg/kg dw	10/19/1998	0.55	mhp	216	SM 7060
Barium, ICP	110	mg/kg dw	10/23/1998	1.1	kdw	1139	SM 6010B
Calcium, ICP	1.6	mg/kg dw	10/19/1998	0.55	jct	1139	SM 6010B
Chromium, ICP	8.4	mg/kg dw	10/19/1998	2.2	jct	1139	SM 6010B
Lead, ICP	18	mg/kg dw	10/19/1998	4.4	jct	1139	SM 6010B
Mercury, CVA	0.13	mg/kg dw	10/22/1998	0.044	sep	658	SM 7471A
Selenium, GFAA	0.31	mg/kg dw	10/20/1998	0.28	mhp	216	SM 7740
Silver, AA	<2.2	mg/kg dw	10/16/1998	2.2	sep	475	SM 7760

Parameter	Results	Units	Date of Analysis	Method	Batch No.
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TPH as Gas	<2,800	mg/kg dw	11/02/1998	55	bcl	237	SM 8015M
TPH as Diesel	<2,800	mg/kg dw	11/02/1998	55	bcl	237	SM 8015M
TPH as Oil	9,090	mg/kg dw	11/02/1998	55	bcl	237	SM 8015M
N-octacosane (TPH surr)	Diluted out		11/02/1998		bcl	237	SM 8015M

Parameter	Results	Units	Date of Analysis	Method	Batch No.
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Benzene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	41	SM 8260A
Ethylbenzene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	41	SM 8260A
Toluene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	41	SM 8260A
Xylenes, Total	<0.006	mg/kg dw	10/19/1998	0.006	mjo	41	SM 8260A
Dibromofluoromethane (Surr)	116.0	µ	10/19/1998	81-129	mjo	41	SM 8260A
Toluene-d8 (Surr)	101.6	µ	10/19/1998	74-129	mjo	41	SM 8260A
4-bromofluoromethane (Surr)	96.8	µ	10/19/1998	70-130	mjo	41	SM 8260A

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

11/04/1998  
Sample No. : 496634  
NET Job No.: 98.13012

Sample Description: S-7  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 11:05  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<22	mg/kg dw	10/18/1998	0.022	keh	748 1798	SW 8310
Acenaphthylene	<22	mg/kg dw	10/18/1998	0.022	keh	748 1798	SW 8310
Anthracene	155	mg/kg dw	10/18/1998	0.044	keh	748 1798	SW 8310
Benzo (a) anthracene	244	mg/kg dw	10/18/1998	0.0029	keh	748 1798	SW 8310
Benzo (b) fluoranthene	222	mg/kg dw	10/18/1998	0.0040	keh	748 1798	SW 8310
Benzo (k) fluoranthene	100	mg/kg dw	10/18/1998	0.0038	keh	748 1798	SW 8310
Benzo (a) pyrene	200	mg/kg dw	10/18/1998	0.0051	keh	748 1798	SW 8310
Benzo (ghi) perylene	155	mg/kg dw	10/18/1998	0.044	keh	748 1798	SW 8310
Chrysene	211	mg/kg dw	10/18/1998	0.03	keh	748 1798	SW 8310
Dibenzo (a, h) anthracene	34	mg/kg dw	10/18/1998	0.007	keh	748 1798	SW 8310
Fluoranthene	543	mg/kg dw	10/18/1998	0.022	keh	748 1798	SW 8310
Fluorene	64	mg/kg dw	10/18/1998	0.022	keh	748 1798	SW 8310
Indeno (1, 2, 3-cd) pyrene	126	mg/kg dw	10/18/1998	0.0095	keh	748 1798	SW 8310
Naphthalene	34	mg/kg dw	10/18/1998	0.028	keh	748 1798	SW 8310
Phenanthrene	421	mg/kg dw	10/18/1998	0.044	keh	748 1798	SW 8310
Pyrene	410	mg/kg dw	10/18/1998	0.022	keh	748 1798	SW 8310
Surr: p-Terphenyl	Diluted out		10/18/1998	43-125	keh	748 1798	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE	wna	363	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	10/13/1998	0.044	jrs	363 31	SW 8082
PCB-1221	<0.044	mg/kg dw	10/13/1998	0.044	jrs	363 31	SW 8082
PCB-1232	<0.044	mg/kg dw	10/13/1998	0.044	jrs	363 31	SW 8082
PCB-1242	<0.044	mg/kg dw	10/13/1998	0.044	jrs	363 31	SW 8082
PCB-1248	<0.044	mg/kg dw	10/13/1998	0.044	jrs	363 31	SW 8082
PCB-1254	<0.044	mg/kg dw	10/13/1998	0.044	jrs	363 31	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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

Sample No. : 496634  
 NET Job No. : 98.13012

Date Taken: 10/07/1998  
 Time Taken: 11:05  
 EPA Cert. No. 100221

Date Received: 10/07/1998  
 Time Received: 16:40  
 WDNR Cert. No. 999447130

Sample Description: S-7  
 COMED-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	Method	Analyst	Prep/Run	Analytical Method
PCB-1260	0.20	mg/kg dw	10/13/1998	0.044	JRS	363 31	SM 8082
Decachlorobiphenyl (Surr)	37.0	μ	10/13/1998	NA	JRS	363 31	SM 8082
2,4,5,6-TCMX (Surr)	65.0	μ	10/13/1998	NA	JRS	363 31	SM 8082

ANALYTICAL REPORT



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## ANALYTICAL REPORT

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

11/04/1998  
Sample No. : 496635  
NET Job No.: 98.13012

Sample Description: S-8  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.70	units	10/13/1998	0.10	nwg	165	SW 9045B
Solids, Total	72.6	†	10/29/1998	0.1	efw	2501	SM 2540
Arsenic, GFAA	2.6	mg/kg dw	10/19/1998	0.69	mhp	216 654	SW 7060
Barium, ICP	592	mg/kg dw	10/23/1998	1.4	kdw	1139 2150	SW 6010B
Cadmium, ICP	5.6	mg/kg dw	10/19/1998	0.69	jtt	1139 2127	SW 6010B
Chromium, ICP	13	mg/kg dw	10/19/1998	2.8	jtt	1139 2113	SW 6010B
Lead, ICP	37	mg/kg dw	10/19/1998	5.5	jtt	1139 2349	SW 6010B
Mercury, CVAA	<0.055	mg/kg dw	10/22/1998	0.055	sep	658 761	SW 7471A
Selenium, GPAA	<0.34	mg/kg dw	10/20/1998	0.34	mhp	216 540	SW 7740
Silver, AA	<2.8	mg/kg dw	10/16/1998	2.8	sep	475 563	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/15/1998		vna	238	SW 8015M
TPH as Gas	<6,900	mg/kg dw	11/03/1998	69	bt1	238 485	SW 8015M
TPH as Diesel	<6,900	mg/kg dw	11/03/1998	69	bt1	238 485	SW 8015M
TPH as Oil	128,000 PT	mg/kg dw	11/03/1998	69	bt1	238 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/03/1998		bt1	238 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/19/1998	0.007	mjo	41	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/19/1998	0.007	mjo	41	SW 8260A
Toluene	<0.007	mg/kg dw	10/19/1998	0.007	mjo	41	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/19/1998	0.007	mjo	41	SW 8260A
Dibromofluoromethane (Surr)	110.2	†	10/19/1998	81-129	mjo	41	SW 8260A
Toluene-d8 (Surr)	107.8	†	10/19/1998	74-129	mjo	41	SW 8260A
4-Bromofluoromethane (Surr)	109.2	†	10/19/1998	70-130	mjo	41	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/12/1998		mmv	748	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 Pasquinielli Drive  
 Westmont, IL 60559

Sample No. : 496635  
 NET Job No. : 98.13012

Date Taken: 10/07/1998  
 Time Taken: 13:00  
 EPA Cert. No. 100221

Date Received: 10/07/1998  
 Time Received: 16:40  
 WDNR Cert. No. 999447130

Sample Description: S-8  
 Comed-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	Method	Prep/Run	Analytical Method
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Acenaphthene	<4.1	mg/kg dw	10/18/1998	keh	748	SM 8310
Acenaphthylene	<4.1	mg/kg dw	10/18/1998	keh	748	SM 8310
Anthracene	<8.3	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo(a)anthracene	<17	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo(b)fluoranthene	5.4	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo(k)fluoranthene	<3.0	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo(a)pyrene	6.3	mg/kg dw	10/18/1998	keh	748	SM 8310
Benzo(ghi)perylene	<8.3	mg/kg dw	10/18/1998	keh	748	SM 8310
Chrysene	<6	mg/kg dw	10/18/1998	keh	748	SM 8310
Dibenzo(a,h)anthracene	<1	mg/kg dw	10/18/1998	keh	748	SM 8310
Fluoranthene	11	mg/kg dw	10/18/1998	keh	748	SM 8310
Fluorene	<4.1	mg/kg dw	10/18/1998	keh	748	SM 8310
Indeno(1,2,3-cd)pyrene	4.3	mg/kg dw	10/18/1998	keh	748	SM 8310
Naphthalene	<5.2	mg/kg dw	10/18/1998	keh	748	SM 8310
Phenanthrene	<8.3	mg/kg dw	10/18/1998	keh	748	SM 8310
Pyrene	15	mg/kg dw	10/18/1998	keh	748	SM 8310
Surr: p-Terphenyl	Diluted out					
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE vna	363	SM 3540C
PCB-1016	<0.11	mg/kg dw	10/15/1998	jtsw	363	SM 8082
PCB-1221	<0.11	mg/kg dw	10/15/1998	jtsw	363	SM 8082
PCB-1232	<0.11	mg/kg dw	10/15/1998	jtsw	363	SM 8082
PCB-1242	<0.11	mg/kg dw	10/15/1998	jtsw	363	SM 8082
PCB-1248	<0.11	mg/kg dw	10/15/1998	jtsw	363	SM 8082
PCB-1254	<0.11	mg/kg dw	10/15/1998	jtsw	363	SM 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

11/04/1998  
Sample No. : 496635  
NET Job No.: 98.13012

Sample Description: S-8  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.58	mg/kg dw	10/15/1998	0.055	jrs	363 35	SW 8082
Decachlorobiphenyl (Surr)	9.0	RM	10/15/1998	NA	jrs	363 35	SW 8082
2,4,5,6-TCMX (Surr)	Masked		10/15/1998	NA	jrs	363 35	SW 8082

RM : Low surrogate recovery due to matrix interference.



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**ANALYTICAL REPORT**

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

11/04/1998  
 Sample No. : 496636  
 NET Job No. : 98.13012

Sample Description: S-9

Comd-Joilet #29; 1801-023-410

Date Taken: 10/07/1998  
 Time Taken: 13:12  
 IRPA Cert. No. 100221

Date Received: 10/07/1998  
 Time Received: 16:40  
 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyt Batch No.	Prep/Run Method
pH, Non-Aqueous	8.66	units	10/13/1998	nwg	165	SM 9045B
Solids, Total	94.0	%	10/29/1998	etv	2501	SM 2540
Arsenic, GFAA	3.0	mg/kg dw	10/19/1998	mhp	216	SM 7060
Barium, ICP	181	mg/kg dw	10/23/1998	kdw	1140	SM 6010B
Cadmium, ICP	<0.53	mg/kg dw	10/15/1998	kdw	1140	SM 6010B
Chromium, ICP	8.0	mg/kg dw	10/15/1998	kdw	1140	SM 6010B
Lead, ICP	35	mg/kg dw	10/15/1998	kdw	1140	SM 6010B
Mercury, CVA	<0.043	mg/kg dw	10/22/1998	sep	658	SM 7471A
Selenium, GFAA	0.31	mg/kg dw	10/20/1998	mhp	216	SM 7740
Silver, AA	<2.1	mg/kg dw	10/21/1998	sep	476	SM 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/15/1998	wva	238	SM 8015M
TPH MODIFIED 8015	<530	mg/kg dw	11/03/1998	bcl	238	SM 8015M
TPH as Gas	1.170	mg/kg dw	11/03/1998	bcl	238	SM 8015M
TPH as Diesel	<530	mg/kg dw	11/03/1998	bcl	238	SM 8015M
TPH as Oil	105.0	mg/kg dw	11/03/1998	bcl	238	SM 8015M
n-octacosane (TPH suxt)	<530	%	11/03/1998	bcl	238	SM 8015M
UST VOLATILES NON-AQUEOUS						
Benzene	<0.005	mg/kg dw	10/17/1998	mjo	35	SM 8260A
Ethylbenzene	<0.005	mg/kg dw	10/17/1998	mjo	35	SM 8260A
Toluene	<0.005	mg/kg dw	10/17/1998	mjo	35	SM 8260A
Xylenes, Total	<0.005	mg/kg dw	10/17/1998	mjo	35	SM 8260A
Dibromofluoromethane (Surt)	106.6	%	10/17/1998	mjo	35	SM 8260A
Toluene-d8 (Surt)	87.0	%	10/17/1998	mjo	35	SM 8260A
4-Bromofluoromethane (Surt)	76.6	%	10/17/1998	mjo	35	SM 8260A
Prep, 8310 PMA NON-AQUEOUS	extracted		10/12/1998	mmv	748	SM 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

11/04/1998  
Sample No. : 496636  
NET Job No.: 98.13012

Sample Description: S-9  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:12  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
		ELV					
Acenaphthene	<1.1	mg/kg dw	10/18/1998	0.021	keh	748 1798	SW 8310
Acenaphthylene	<1.1	mg/kg dw	10/18/1998	0.021	keh	748 1798	SW 8310
Anthracene	<2.1	mg/kg dw	10/18/1998	0.043	keh	748 1798	SW 8310
Benzo(a)anthracene	<2.2	mg/kg dw	10/18/1998	0.0028	keh	748 1798	SW 8310
Benzo(b)fluoranthene	<0.57	mg/kg dw	10/18/1998	0.0038	keh	748 1798	SW 8310
Benzo(k)fluoranthene	<0.34	mg/kg dw	10/18/1998	0.0036	keh	748 1798	SW 8310
Benzo(a)pyrene	<0.57	mg/kg dw	10/18/1998	0.0049	keh	748 1798	SW 8310
Benzo(ghi)perylene	<2.1	mg/kg dw	10/18/1998	0.043	keh	748 1798	SW 8310
Chrysene	<2	mg/kg dw	10/18/1998	0.03	keh	748 1798	SW 8310
Dibenzo(a,h)anthracene	<0.3	mg/kg dw	10/18/1998	0.006	keh	748 1798	SW 8310
Fluoranthene	<1.1	mg/kg dw	10/18/1998	0.021	keh	748 1798	SW 8310
Fluorene	<1.1	mg/kg dw	10/18/1998	0.021	keh	748 1798	SW 8310
Indeno(1,2,3-cd)pyrene	<0.46	mg/kg dw	10/18/1998	0.0091	keh	748 1798	SW 8310
Naphthalene	<1.3	mg/kg dw	10/18/1998	0.027	keh	748 1798	SW 8310
Phenanthrene	<2.1	mg/kg dw	10/18/1998	0.043	keh	748 1798	SW 8310
Pyrene	<1.1	mg/kg dw	10/18/1998	0.021	keh	748 1798	SW 8310
Surr: p-Terphenyl	Diluted out		10/18/1998	43-125	keh	748 1798	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE	wna	363	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.043	mg/kg dw	10/15/1998	0.043	jrs	363 35	SW 8082
PCB-1221	<0.043	mg/kg dw	10/15/1998	0.043	jrs	363 35	SW 8082
PCB-1232	<0.043	mg/kg dw	10/15/1998	0.043	jrs	363 35	SW 8082
PCB-1242	<0.043	mg/kg dw	10/15/1998	0.043	jrs	363 35	SW 8082
PCB-1248	<0.043	mg/kg dw	10/15/1998	0.043	jrs	363 35	SW 8082
PCB-1254	<0.043	mg/kg dw	10/15/1998	0.043	jrs	363 35	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

11/04/1998  
Sample No. : 496636  
NET Job No.: 98.13012

Sample Description: S-9  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:12  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.043	mg/kg dw	10/15/1998	0.043	jrs	363 35	SW 8082
Decachlorobiphenyl (Surr)	116.0	µ	10/15/1998	NA	jrs	363 35	SW 8082
2,4,5,6-TCMX (Surr)	83.0	µ	10/15/1998	NA	jrs	363 35	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
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11/04/1998  
Sample No. : 496637  
NET Job No.: 98.13012

Sample Description: X-5  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:35  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.10	units	10/13/1998	0.10	nwg	165	SW 9045B
Solids, Total	46.3	%	10/29/1998	0.1	efw	2501	SM 2540
Arsenic, GFAA	<2.6	MX mg/kg dw	10/19/1998	1.1	mhp	216 654	SW 7060
Barium, ICP	1,510	mg/kg dw	10/23/1998	2.2	kdw	1140 2150	SW 6010B
Cadmium, ICP	<1.1	mg/kg dw	10/19/1998	1.1	jtt	1140 2127	SW 6010B
Chromium, ICP	10	mg/kg dw	10/19/1998	4.3	jtt	1140 2113	SW 6010B
Lead, ICP	9.5	mg/kg dw	10/19/1998	8.6	jtt	1140 2349	SW 6010B
Mercury, CVAA	<0.086	mg/kg dw	10/22/1998	0.086	sep	658 761	SW 7471A
Selenium, GFAA	<0.54	mg/kg dw	10/20/1998	0.54	mhp	216 538	SW 7740
Silver, AA	<4.3	mg/kg dw	10/21/1998	4.3	sep	476 564	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/15/1998		wna	238	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<1,080	mg/kg dw	10/20/1998	110	bt1	238 479	SW 8015M
TPH as Diesel	<1,080	mg/kg dw	10/20/1998	110	bt1	238 479	SW 8015M
TPH as Oil	1,640	PT mg/kg dw	10/20/1998	110	bt1	238 479	SW 8015M
N-octacosane (TPH surr)	109.0	%	10/20/1998		bt1	238 479	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.01	mg/kg dw	10/17/1998	0.01	mjo	35	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/17/1998	0.01	mjo	35	SW 8260A
Toluene	<0.01	mg/kg dw	10/17/1998	0.01	mjo	35	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/17/1998	0.01	mjo	35	SW 8260A
Dibromofluoromethane (Surr)	133.8	R %	10/17/1998	81-129	mjo	35	SW 8260A
Toluene-d8 (Surr)	78.2	%	10/17/1998	74-129	mjo	35	SW 8260A
4-Bromofluoromethane (Surr)	42.4	R %	10/17/1998	70-130	mjo	35	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/12/1998		mmv	748	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

11/04/1998

Sample No. : 496637

NET Job No.: 98.13012

Sample Description: X-5  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:35  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	<0.43	mg/kg dw	10/19/1998	0.043	keh	748 1799	SW 8310
Acenaphthylene	<0.43	mg/kg dw	10/19/1998	0.043	keh	748 1799	SW 8310
Anthracene	<0.86	mg/kg dw	10/19/1998	0.086	keh	748 1799	SW 8310
Benzo(a)anthracene	<9.7	mg/kg dw	10/19/1998	0.0056	keh	748 1799	SW 8310
Benzo(b)fluoranthene	<0.35	mg/kg dw	10/19/1998	0.0078	keh	748 1799	SW 8310
Benzo(k)fluoranthene	<0.18	mg/kg dw	10/19/1998	0.0073	keh	748 1799	SW 8310
Benzo(a)pyrene	<0.30	mg/kg dw	10/19/1998	0.0099	keh	748 1799	SW 8310
Benzo(ghi)perylene	<0.86	mg/kg dw	10/19/1998	0.086	keh	748 1799	SW 8310
Chrysene	<0.6	mg/kg dw	10/19/1998	0.06	keh	748 1799	SW 8310
Dibenzo(a,h)anthracene	<0.1	mg/kg dw	10/19/1998	0.01	keh	748 1799	SW 8310
Fluoranthene	<0.43	mg/kg dw	10/19/1998	0.043	keh	748 1799	SW 8310
Fluorene	<0.43	mg/kg dw	10/19/1998	0.043	keh	748 1799	SW 8310
Indeno(1,2,3-cd)pyrene	<0.19	mg/kg dw	10/19/1998	0.019	keh	748 1799	SW 8310
Naphthalene	<0.54	mg/kg dw	10/19/1998	0.054	keh	748 1799	SW 8310
Phenanthrene	<0.86	mg/kg dw	10/19/1998	0.086	keh	748 1799	SW 8310
Pyrene	<0.43	mg/kg dw	10/19/1998	0.043	keh	748 1799	SW 8310
Surr: p-Terphenyl	Masked		10/19/1998	43-125	keh	748 1799	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE	wna	363	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.086	mg/kg dw	10/15/1998	0.086	jrs	363 35	SW 8082
PCB-1221	<0.086	mg/kg dw	10/15/1998	0.086	jrs	363 35	SW 8082
PCB-1232	<0.086	mg/kg dw	10/15/1998	0.086	jrs	363 35	SW 8082
PCB-1242	<0.086	mg/kg dw	10/15/1998	0.086	jrs	363 35	SW 8082
PCB-1248	<0.086	mg/kg dw	10/15/1998	0.086	jrs	363 35	SW 8082
PCB-1254	<0.086	mg/kg dw	10/15/1998	0.086	jrs	363 35	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

11/04/1998  
Sample No. : 496637  
NET Job No.: 98.13012

Sample Description: X-5  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:35  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.086	mg/kg dw	10/15/1998	0.086	jrs	363 35	SW 8082
Decachlorobiphenyl (Surr)	77.0	µ	10/15/1998	NA	jrs	363 35	SW 8082
2,4,5,6-TCMX (Surr)	82.0	µ	10/15/1998	NA	jrs	363 35	SW 8082



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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496638  
NET Job No.: 98.13012

Sample Description: S-15  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:50  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.88	units	10/13/1998	0.10	nwg	165	SW 9045B
Solids, Total	82.4	‡	10/14/1998	0.1	efw	2477	SM 2540
Arsenic, GFAA	6.9	mg/kg dw	10/19/1998	0.61	mhp	217 654	SW 7060
Barium, ICP	328	mg/kg dw	10/23/1998	1.2	kdw	1140 2150	SW 6010B
Cadmium, ICP	0.74	mg/kg dw	10/19/1998	0.61	jtt	1140 2127	SW 6010B
Chromium, ICP	8.6	mg/kg dw	10/19/1998	2.4	jtt	1140 2113	SW 6010B
Lead, ICP	23	mg/kg dw	10/19/1998	4.8	jtt	1140 2349	SW 6010B
Mercury, CVAA	<0.049	mg/kg dw	10/22/1998	0.049	sep	658 761	SW 7471A
Selenium, GFAA	<0.30	mg/kg dw	10/20/1998	0.30	mhp	217 539	SW 7740
Silver, AA	<2.4	mg/kg dw	10/21/1998	2.4	sep	476 564	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/15/1998		vna	238	SW 8015M
TPH as Gas	<61	mg/kg dw	11/03/1998	61	bt1	238 485	SW 8015M
TPH as Diesel	<61	mg/kg dw	11/03/1998	61	bt1	238 485	SW 8015M
TPH as Oil	522	PT mg/kg dw	11/03/1998	61	bt1	238 485	SW 8015M
N-octacosane (TPH surr)	106.0	‡	11/03/1998		bt1	238 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Toluene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Dibromofluoromethane (Surr)	123.4	‡	10/17/1998	81-129	mjo	36	SW 8260A
Toluene-d8 (Surr)	97.6	‡	10/17/1998	74-129	mjo	36	SW 8260A
4-Bromofluoromethane (Surr)	86.0	‡	10/17/1998	70-130	mjo	36	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/12/1998		mmv	748	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

11/04/1998

Sample No. : 496638

NET Job No.: 98.13012

Sample Description: S-15  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:50  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
FNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.24	mg/kg dw	10/19/1998	0.024	keh	748 1799	SW 8310
Acenaphthylene	<0.24	mg/kg dw	10/19/1998	0.024	keh	748 1799	SW 8310
Anthracene	<0.49	mg/kg dw	10/19/1998	0.049	keh	748 1799	SW 8310
Benzo(a)anthracene	<2.8	mg/kg dw	10/19/1998	0.0032	keh	748 1799	SW 8310
Benzo(b)fluoranthene	<0.41	mg/kg dw	10/19/1998	0.0044	keh	748 1799	SW 8310
Benzo(k)fluoranthene	<0.27	mg/kg dw	10/19/1998	0.0041	keh	748 1799	SW 8310
Benzo(a)pyrene	<0.30	mg/kg dw	10/19/1998	0.0056	keh	748 1799	SW 8310
Benzo(ghi)perylene	<0.49	mg/kg dw	10/19/1998	0.049	keh	748 1799	SW 8310
Chrysene	0.41	mg/kg dw	10/19/1998	0.04	keh	748 1799	SW 8310
Dibenzo(a,h)anthracene	<0.07	mg/kg dw	10/19/1998	0.007	keh	748 1799	SW 8310
Fluoranthene	<0.64	mg/kg dw	10/19/1998	0.024	keh	748 1799	SW 8310
Fluorene	<0.24	mg/kg dw	10/19/1998	0.024	keh	748 1799	SW 8310
Indeno(1,2,3-cd)pyrene	<0.10	mg/kg dw	10/19/1998	0.010	keh	748 1799	SW 8310
Naphthalene	<0.30	mg/kg dw	10/19/1998	0.030	keh	748 1799	SW 8310
Phenanthrene	<0.49	mg/kg dw	10/19/1998	0.049	keh	748 1799	SW 8310
Pyrene	0.49	mg/kg dw	10/19/1998	0.024	keh	748 1799	SW 8310
Surr: p-Terphenyl	Masked		10/19/1998	43-125	keh	748 1799	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/11/1998	COMPLETE	wna	363	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1221	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1232	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1242	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1248	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1254	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	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

11/04/1998  
Sample No. : 496638  
NET Job No.: 98.13012

Sample Description: S-15  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:50  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	10/15/1998	0.049	jrs	363 35	SW 8082
Decachlorobiphenyl (Surr)	75.0	µ	10/15/1998	NA	jrs	363 35	SW 8082
2,4,5,6-TCMX (Surr)	84.0	µ	10/15/1998	NA	jrs	363 35	SW 8082



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## ANALYTICAL REPORT

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

11/04/1998  
Sample No. : 496639  
NET Job No.: 98.13012

Sample Description: S-16  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:57  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.85	units	10/13/1998	0.10	nwg	165	SW 9045B
Solids, Total	81.4	%	10/14/1998	0.1	efw	2477	SM 2540
Arsenic, GFAA	2.7	mg/kg dw	10/19/1998	0.61	mhp	217 654	SW 7060
Barium, ICP	221	mg/kg dw	10/23/1998	1.2	kdw	1140 2150	SW 6010B
Cadmium, ICP	2.0	mg/kg dw	10/19/1998	0.61	jtt	1140 2127	SW 6010B
Chromium, ICP	4.4	mg/kg dw	10/19/1998	2.4	jtt	1140 2113	SW 6010B
Lead, ICP	14	mg/kg dw	10/19/1998	4.9	jtt	1140 2349	SW 6010B
Mercury, CVAA	<0.049	mg/kg dw	10/22/1998	0.049	sep	658 761	SW 7471A
Selenium, GFAA	0.32	mg/kg dw	10/20/1998	0.31	mhp	217 539	SW 7740
Silver, AA	<2.5	mg/kg dw	10/21/1998	2.5	sep	476 564	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/15/1998		wna	238	SW 8015M
TPH as Gas	<6,100	mg/kg dw	11/03/1998	61	bt1	238 485	SW 8015M
TPH as Diesel	40,500	PT mg/kg dw	11/03/1998	61	bt1	238 485	SW 8015M
TPH as Oil	<6,100	mg/kg dw	11/03/1998	61	bt1	238 485	SW 8015M
N-octacosane (TPH surr)	120.0	%	11/03/1998		bt1	238 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Toluene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Dibromofluoromethane (Surr)	106.4	%	10/17/1998	81-129	mjo	36	SW 8260A
Toluene-d8 (Surr)	111.4	%	10/17/1998	74-129	mjo	36	SW 8260A
4-Bromofluoromethane (Surr)	111.6	%	10/17/1998	70-130	mjo	36	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/12/1998		mmv	748	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  
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11/04/1998  
Sample No. : 496639  
NET Job No.: 98.13012

Sample Description: S-16  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:57  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	<2.5	mg/kg dw	10/19/1998	0.025	keh	748 1799	SW 8310
Acenaphthylene	<2.5	mg/kg dw	10/19/1998	0.025	keh	748 1799	SW 8310
Anthracene	<4.9	mg/kg dw	10/19/1998	0.049	keh	748 1799	SW 8310
Benzo (a) anthracene	<34	mg/kg dw	10/19/1998	0.0032	keh	748 1799	SW 8310
Benzo (b) fluoranthene	<1.8	mg/kg dw	10/19/1998	0.0044	keh	748 1799	SW 8310
Benzo (k) fluoranthene	<0.42	mg/kg dw	10/19/1998	0.0042	keh	748 1799	SW 8310
Benzo (a) pyrene	<0.57	mg/kg dw	10/19/1998	0.0057	keh	748 1799	SW 8310
Benzo (ghi) perylene	<4.9	mg/kg dw	10/19/1998	0.049	keh	748 1799	SW 8310
Chrysene	<4	mg/kg dw	10/19/1998	0.04	keh	748 1799	SW 8310
Dibenzo (a, h) anthracene	<0.7	mg/kg dw	10/19/1998	0.007	keh	748 1799	SW 8310
Fluoranthene	<23	mg/kg dw	10/19/1998	0.025	keh	748 1799	SW 8310
Fluorene	5.5	mg/kg dw	10/19/1998	0.025	keh	748 1799	SW 8310
Indeno (1,2,3-cd) pyrene	<1.1	mg/kg dw	10/19/1998	0.011	keh	748 1799	SW 8310
Naphthalene	<3.1	mg/kg dw	10/19/1998	0.031	keh	748 1799	SW 8310
Phenanthrene	<4.9	mg/kg dw	10/19/1998	0.049	keh	748 1799	SW 8310
Pyrene	<23	mg/kg dw	10/19/1998	0.025	keh	748 1799	SW 8310
Surr: p-Terphenyl	Diluted out		10/19/1998	43-125	keh	748 1799	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/11/1998	COMPLETE	wna	363	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1221	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1232	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1242	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1248	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	SW 8082
PCB-1254	<0.049	mg/kg dw	10/15/1998	0.049	jrs	363 35	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

11/04/1998  
Sample No. : 496639  
NET Job No.: 98.13012

Sample Description: S-16  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 13:57  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	10/15/1998	0.049	jrs	363 35	SW 8082
Decachlorobiphenyl (Surr)	75.0	μ	10/15/1998	NA	jrs	363 35	SW 8082
2,4,5,6-TCMX (Surr)	73.0	μ	10/15/1998	NA	jrs	363 35	SW 8082



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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496640  
NET Job No.: 98.13012

Sample Description: S-17  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:10  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	10.09	units	10/13/1998	0.10	nwg	165	SW 9045B
Solids, Total	40.3	%	10/20/1998	0.1	efw	2490	SM 2540
Arsenic, GFAA	<3.0	MX mg/kg dw	10/19/1998	1.2	mhp	217 654	SW 7060
Barium, ICP	819	mg/kg dw	10/23/1998	2.5	kdw	1140 2150	SW 6010B
Cadmium, ICP	2.1	mg/kg dw	10/19/1998	1.2	jtt	1140 2127	SW 6010B
Chromium, ICP	8.9	mg/kg dw	10/19/1998	5.0	jtt	1140 2113	SW 6010B
Lead, ICP	82	mg/kg dw	10/19/1998	9.9	jtt	1140 2349	SW 6010B
Mercury, CVAAs	<0.099	mg/kg dw	10/22/1998	0.099	sep	658 761	SW 7471A
Selenium, GFAA	<0.62	mg/kg dw	10/20/1998	0.62	mhp	217 539	SW 7740
Silver, AA	<5.0	mg/kg dw	10/21/1998	5.0	sep	476 564	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/15/1998		wna	238	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<1,200	mg/kg dw	11/04/1998	120	bt1	238 485	SW 8015M
TPH as Diesel	<1,200	mg/kg dw	11/04/1998	120	bt1	238 485	SW 8015M
TPH as Oil	6,950	PT mg/kg dw	11/04/1998	120	bt1	238 485	SW 8015M
N-octacosane (TPH surr)	132.0	%	11/04/1998		bt1	238 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/17/1998	0.01	mjo	36	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/17/1998	0.01	mjo	36	SW 8260A
Toluene	<0.01	mg/kg dw	10/17/1998	0.01	mjo	36	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/17/1998	0.01	mjo	36	SW 8260A
Dibromofluoromethane (Surr)	99.4	%	10/17/1998	81-129	mjo	36	SW 8260A
Toluene-d8 (Surr)	105.4	%	10/17/1998	74-129	mjo	36	SW 8260A
4-Bromofluoromethane (Surr)	97.8	%	10/17/1998	70-130	mjo	36	SW 8260A
Prep, 8310 PNAAs NON-AQUEOUS	extracted		10/12/1998		mmv	748	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

11/04/1998

Sample No. : 496640

NET Job No.: 98.13012

Sample Description: S-17  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:10  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	<1.2	mg/kg dw	10/19/1998	0.050	keh	748 1799	SW 8310
Acenaphthylene	<1.2	mg/kg dw	10/19/1998	0.050	keh	748 1799	SW 8310
Anthracene	<2.5	mg/kg dw	10/19/1998	0.099	keh	748 1799	SW 8310
Benzo (a) anthracene	<18	mg/kg dw	10/19/1998	0.0065	keh	748 1799	SW 8310
Benzo (b) fluoranthene	<4.0	mg/kg dw	10/19/1998	0.0089	keh	748 1799	SW 8310
Benzo (k) fluoranthene	<3.0	mg/kg dw	10/19/1998	0.0084	keh	748 1799	SW 8310
Benzo (a) pyrene	<2.4	mg/kg dw	10/19/1998	0.011	keh	748 1799	SW 8310
Benzo (ghi) perylene	<2.5	mg/kg dw	10/19/1998	0.099	keh	748 1799	SW 8310
Chrysene	2.0	mg/kg dw	10/19/1998	0.07	keh	748 1799	SW 8310
Dibenzo (a, h) anthracene	<2.1	mg/kg dw	10/19/1998	0.01	keh	748 1799	SW 8310
Fluoranthene	<2.7	mg/kg dw	10/19/1998	0.050	keh	748 1799	SW 8310
Fluorene	<1.2	mg/kg dw	10/19/1998	0.050	keh	748 1799	SW 8310
Indeno (1, 2, 3-cd) pyrene	<7.7	mg/kg dw	10/19/1998	0.021	keh	748 1799	SW 8310
Naphthalene	<1.5	mg/kg dw	10/19/1998	0.062	keh	748 1799	SW 8310
Phenanthrene	<2.5	mg/kg dw	10/19/1998	0.099	keh	748 1799	SW 8310
Pyrene	3.2	mg/kg dw	10/19/1998	0.050	keh	748 1799	SW 8310
Surr: p-Terphenyl	Diluted out		10/19/1998	43-125	keh	748 1799	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE	wna	363	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.099	mg/kg dw	10/15/1998	0.099	jrs	363 35	SW 8082
PCB-1221	<0.099	mg/kg dw	10/15/1998	0.099	jrs	363 35	SW 8082
PCB-1232	<0.099	mg/kg dw	10/15/1998	0.099	jrs	363 35	SW 8082
PCB-1242	<0.099	mg/kg dw	10/15/1998	0.099	jrs	363 35	SW 8082
PCB-1248	<0.099	mg/kg dw	10/15/1998	0.099	jrs	363 35	SW 8082
PCB-1254	<0.099	mg/kg dw	10/15/1998	0.099	jrs	363 35	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

11/04/1998  
Sample No. : 496640  
NET Job No.: 98.13012

Sample Description: S-17  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:10  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.14	mg/kg dw	10/15/1998	0.099	jrs	363 35	SW 8082
Decachlorobiphenyl (Surr)	70.0	‡	10/15/1998	NA	jrs	363 35	SW 8082
2,4,5,6-TCDF (Surr)	81.0	‡	10/15/1998	NA	jrs	363 35	SW 8082



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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496641  
NET Job No.: 98.13012

Sample Description: X-6  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:22  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.96	units	10/13/1998	0.10	nwg	165	SW 9045B
Solids, Total	52.1	†	10/20/1998	0.1	efw	2490	SM 2540
Arsenic, GFAA	3.5	mg/kg dw	10/19/1998	0.96	mhp	217 654	SW 7060
Barium, ICP	883	mg/kg dw	10/23/1998	1.9	kdw	1140 2150	SW 6010B
Cadmium, ICP	<0.96	mg/kg dw	10/19/1998	0.96	jtt	1140 2127	SW 6010B
Chromium, ICP	14	mg/kg dw	10/19/1998	3.8	jtt	1140 2113	SW 6010B
Lead, ICP	31	mg/kg dw	10/19/1998	7.7	jtt	1140 2349	SW 6010B
Mercury, CVA	0.098	mg/kg dw	10/22/1998	0.077	sep	658 761	SW 7471A
Selenium, GFAA	<0.48	mg/kg dw	10/20/1998	0.48	mhp	217 539	SW 7740
Silver, AA	<3.8	mg/kg dw	10/21/1998	3.8	sep	476 564	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/15/1998		wna	238	SW 8015M
TPH as Gas	<960	mg/kg dw	11/03/1998	96	bt1	238 485	SW 8015M
TPH as Diesel	<960	mg/kg dw	11/03/1998	96	bt1	238 485	SW 8015M
TPH as Oil	9,980	PT mg/kg dw	11/03/1998	96	bt1	238 485	SW 8015M
N-octacosane (TPH surr)	120.0	†	11/03/1998		bt1	238 485	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.01	mg/kg dw	10/19/1998	0.01	mjo	41	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/19/1998	0.01	mjo	41	SW 8260A
Toluene	<0.01	mg/kg dw	10/19/1998	0.01	mjo	41	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/19/1998	0.01	mjo	41	SW 8260A
Dibromofluoromethane (Surr)	109.4	†	10/19/1998	81-129	mjo	41	SW 8260A
Toluene-d8 (Surr)	94.2	†	10/19/1998	74-129	mjo	41	SW 8260A
4-Bromofluoromethane (Surr)	78.6	†	10/19/1998	70-130	mjo	41	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/12/1998		mmv	748	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 Pasquinielli Drive  
Westmont, IL 60559

Sample No. : 496641  
NET Job No. : 98.13012

Date Taken: 10/07/1998  
Time Taken: 14:22  
Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Sample Description: X-6  
COMED-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	Method	Analyst	POL	Prep/Run	Analytical Method
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PCB-1254	<0.077	mg/kg dw	10/15/1998	0.077	Jrs	363	35	SM 8082
PCB-1248	<0.077	mg/kg dw	10/15/1998	0.077	Jrs	363	35	SM 8082
PCB-1242	<0.077	mg/kg dw	10/15/1998	0.077	Jrs	363	35	SM 8082
PCB-1232	<0.077	mg/kg dw	10/15/1998	0.077	Jrs	363	35	SM 8082
PCB-1221	<0.077	mg/kg dw	10/15/1998	0.077	Jrs	363	35	SM 8082
PCB-1016	<0.077	mg/kg dw	10/15/1998	0.077	Jrs	363	35	SM 8082
PCB'S NON-AQUEOUS	COMPLETE		10/11/1998	COMPLETE	WNA	363		SM 3540C
PCB Non-Aqueous Extraction	Masked		10/20/1998	43-125	keh	748	1799	SM 8310
Surf: p-Terphenyl	0.88	mg/kg dw	10/20/1998	0.038	keh	748	1799	SM 8310
Pyrene	<0.77	mg/kg dw	10/20/1998	0.077	keh	748	1799	SM 8310
Phenanthrene	<0.48	mg/kg dw	10/20/1998	0.048	keh	748	1799	SM 8310
Naphthalene	<1.2	mg/kg dw	10/20/1998	0.077	keh	748	1799	SM 8310
Indeno (1,2,3-cd) pyrene	<0.38	mg/kg dw	10/20/1998	0.038	keh	748	1799	SM 8310
Fluorene	<0.67	mg/kg dw	10/20/1998	0.038	keh	748	1799	SM 8310
Fluoranthene	<0.1	mg/kg dw	10/20/1998	0.01	keh	748	1799	SM 8310
Dibenzo (a,h) anthracene	<0.6	mg/kg dw	10/20/1998	0.06	keh	748	1799	SM 8310
Chrysene	<0.77	mg/kg dw	10/20/1998	0.077	keh	748	1799	SM 8310
Benzo (ghi) perylene	<0.63	mg/kg dw	10/20/1998	0.0088	keh	748	1799	SM 8310
Benzo (a) pyrene	<0.98	mg/kg dw	10/20/1998	0.0065	keh	748	1799	SM 8310
Benzo (k) Fluoranthene	<0.36	mg/kg dw	10/20/1998	0.0069	keh	748	1799	SM 8310
Benzo (b) Fluoranthene	<8.1	mg/kg dw	10/20/1998	0.0050	keh	748	1799	SM 8310
Benzo (a) anthracene	<0.77	mg/kg dw	10/20/1998	0.077	keh	748	1799	SM 8310
Anthracene	<0.38	mg/kg dw	10/20/1998	0.038	keh	748	1799	SM 8310
Acenaphthylene	<0.38	mg/kg dw	10/20/1998	0.038	keh	748	1799	SM 8310
Acenaphthene								

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

11/04/1998  
Sample No. : 496641  
NET Job No.: 98.13012

Sample Description: X-6  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:22  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.077	mg/kg dw	10/15/1998	0.077	jrs	363 35	SW 8082
Decachlorobiphenyl (Surr)	59.0	t	10/15/1998	NA	jrs	363 35	SW 8082
2,4,5,6-TCMX (Surr)	78.0	t	10/15/1998	NA	jrs	363 35	SW 8082



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**ANALYTICAL REPORT**

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

Sample No. : 496642  
 NET Job No. : 98.13012

Sample Description: S-20  
 Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
 Time Taken: 14:30  
 EPA Cert. No. 100221  
 Date Received: 10/07/1998  
 Time Received: 16:40  
 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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pH, Non-Aqueous Solids, Total	7.66	units	10/13/1998	PQT	mg	165	SM 9045B
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Arsenic, GRA	5.4	mg/kg dw	10/19/1998	mbp	0.72	217	SM 7060
Barium, ICP	638	mg/kg dw	10/23/1998	kdw	1.4	1140	SM 6010B
Cadmium, ICP	1.0	mg/kg dw	10/19/1998	jct	0.72	1140	SM 6010B
Chromium, ICP	5.8	mg/kg dw	10/19/1998	jct	2.9	1140	SM 6010B
Lead, ICP	13	mg/kg dw	10/19/1998	jct	5.8	1140	SM 6010B
Mercury, CVA	0.064	mg/kg dw	10/22/1998	sep	0.058	658	SM 7471A
Selenium, GRA	<0.36	mg/kg dw	10/20/1998	mbp	0.36	217	SM 7740
Silver, AA	<2.9	mg/kg dw	10/21/1998	sep	2.9	476	SM 7760

Prep, TPH 8015M - NONAQUEOUS							
TPH MODIFIED 8015							
TPH as Gas	<720	mg/kg dw	11/03/1998	bcl	72	238	SM 8015M
TPH as Diesel	<720	mg/kg dw	11/03/1998	bcl	72	238	SM 8015M
TPH as Oil	1.420	mg/kg dw	11/03/1998	bcl	72	238	SM 8015M
N-octacosane (TPH surr)	73.0	µ	11/03/1998	bcl	238	485	SM 8015M

UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/19/1998	mjo	0.007	42	SM 8260A
Ethylbenzene	<0.007	mg/kg dw	10/19/1998	mjo	0.007	42	SM 8260A
Toluene	<0.007	mg/kg dw	10/19/1998	mjo	0.007	42	SM 8260A
Xylenes, Total	<0.007	mg/kg dw	10/19/1998	mjo	0.007	42	SM 8260A
Dibromofluoromethane (Surr)	112.2	µ	10/19/1998	mjo	81-129	42	SM 8260A
Toluene-d8 (Surr)	92.4	µ	10/19/1998	mjo	74-129	42	SM 8260A
4-Bromofluoromethane (Surr)	75.2	µ	10/19/1998	mjo	70-130	42	SM 8260A

Prep, 8310 PNAs NON-AQUEOUS							
extracted			10/12/1998	mmv		748	SM 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

11/04/1998

Sample No. : 496642

NET Job No.: 98.13012

Sample Description: S-20  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:30  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	<0.1	mg/kg dw	10/20/1998	0.029	keh	748 1799	SW 8310
Acenaphthylene	<0.1	mg/kg dw	10/20/1998	0.029	keh	748 1799	SW 8310
Anthracene	<0.3	mg/kg dw	10/20/1998	0.058	keh	748 1799	SW 8310
Benzo (a) anthracene	<4.1	mg/kg dw	10/20/1998	0.0038	keh	748 1799	SW 8310
Benzo (b) fluoranthene	<0.03	mg/kg dw	10/20/1998	0.0052	keh	748 1799	SW 8310
Benzo (k) fluoranthene	<0.042	mg/kg dw	10/20/1998	0.0049	keh	748 1799	SW 8310
Benzo (a) pyrene	<0.099	mg/kg dw	10/20/1998	0.0067	keh	748 1799	SW 8310
Benzo (ghi) perylene	<0.3	mg/kg dw	10/20/1998	0.058	keh	748 1799	SW 8310
Chrysene	<0.3	mg/kg dw	10/20/1998	0.04	keh	748 1799	SW 8310
Dibenzo (a, h) anthracene	<0.17	mg/kg dw	10/20/1998	0.009	keh	748 1799	SW 8310
Fluoranthene	<0.1	mg/kg dw	10/20/1998	0.029	keh	748 1799	SW 8310
Fluorene	<0.1	mg/kg dw	10/20/1998	0.029	keh	748 1799	SW 8310
Indeno (1,2,3-cd) pyrene	<0.06	mg/kg dw	10/20/1998	0.012	keh	748 1799	SW 8310
Naphthalene	<0.1	mg/kg dw	10/20/1998	0.036	keh	748 1799	SW 8310
Phenanthrene	<0.3	mg/kg dw	10/20/1998	0.058	keh	748 1799	SW 8310
Pyrene	<0.1	mg/kg dw	10/20/1998	0.029	keh	748 1799	SW 8310
Surr: p-Terphenyl	Masked		10/20/1998	43-125	keh	748 1799	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/11/1998	COMPLETE	wna	363	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.058	mg/kg dw	10/15/1998	0.058	jrs	363 35	SW 8082
PCB-1221	<0.058	mg/kg dw	10/15/1998	0.058	jrs	363 35	SW 8082
PCB-1232	<0.058	mg/kg dw	10/15/1998	0.058	jrs	363 35	SW 8082
PCB-1242	<0.058	mg/kg dw	10/15/1998	0.058	jrs	363 35	SW 8082
PCB-1248	<0.058	mg/kg dw	10/15/1998	0.058	jrs	363 35	SW 8082
PCB-1254	<0.058	mg/kg dw	10/15/1998	0.058	jrs	363 35	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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

Sample No. : 496642  
 NET Job No. : 98.13012

Sample Description: S-20  
 Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
 Time Taken: 14:30  
 Date Received: 10/07/1998  
 Time Received: 16:40  
 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PCB-1260	<0.058	mg/kg dw	10/15/1998	0.058	JRS	363 35	SM 8082
Decachlorobiphenyl (Surr)	67.0	µ	10/15/1998	NA	JRS	363 35	SM 8082
2,4,5,6-TCDF (Surr)	70.0	µ	10/15/1998	NA	JRS	363 35	SM 8082

ANALYTICAL REPORT

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**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496643  
NET Job No.: 98.13012

Sample Description: S-21  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:35  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.13	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	91.2	‡	10/20/1998	0.1	efw	2490	SM 2540
Arsenic, GFAA	3.3	mg/kg dw	10/19/1998	0.55	mhp	217 654	SW 7060
Barium, ICP	186	mg/kg dw	10/23/1998	1.1	kdw	1140 2150	SW 6010B
Cadmium, ICP	0.72	mg/kg dw	10/19/1998	0.55	jtt	1140 2127	SW 6010B
Chromium, ICP	23	mg/kg dw	10/19/1998	2.2	jtt	1140 2113	SW 6010B
Lead, ICP	15	mg/kg dw	10/19/1998	4.4	jtt	1140 2349	SW 6010B
Mercury, CVAA	<0.044	mg/kg dw	10/22/1998	0.044	sep	658 761	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	10/20/1998	0.27	mhp	217 539	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	476 564	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/15/1998		vna	238	SW 8015M
TPH as Gas	<5,500	mg/kg dw	11/03/1998	55	bt1	238 485	SW 8015M
TPH as Diesel	<5,500	mg/kg dw	11/03/1998	55	bt1	238 485	SW 8015M
TPH as Oil	104,000 PT	mg/kg dw	11/03/1998	55	bt1	238 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/03/1998		bt1	238 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/19/1998	0.005	mjo	42	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/19/1998	0.005	mjo	42	SW 8260A
Toluene	<0.005	mg/kg dw	10/19/1998	0.005	mjo	42	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/19/1998	0.005	mjo	42	SW 8260A
Dibromofluoromethane (Surr)	102.4	‡	10/19/1998	81-129	mjo	42	SW 8260A
Toluene-d8, (Surr)	102.6	‡	10/19/1998	74-129	mjo	42	SW 8260A
4-Bromofluoromethane (Surr)	104.0	‡	10/19/1998	70-130	mjo	42	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/12/1998		mmv	749	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

Sample No. : 496643  
NET Job No. : 98.13012

Sample Description: S-21

Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998

Date Received: 10/07/1998  
Time Received: 16:40  
MDNR Cert. No. 999447130

Time Taken: 14:35  
IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method	Analyte Batch No.	Method
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PNA CMPDS - 8310 NONAQUEOUS

Acenaphthylene	<0.66	mg/kg dw	10/20/1998	keh	749	SM 8310
Acenaphthylene	<0.66	mg/kg dw	10/20/1998	keh	749	SM 8310
Anthracene	<1.3	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo (a) anthracene	<2.1	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo (b) fluorene	<0.12	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo (k) fluorene	<0.11	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo (a) pyrene	<0.34	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo (ghi) perylene	<1.3	mg/kg dw	10/20/1998	keh	749	SM 8310
Chrysene	<1	mg/kg dw	10/20/1998	keh	749	SM 8310
Dibenzo (a,h) anthracene	<0.2	mg/kg dw	10/20/1998	keh	749	SM 8310
Fluorene	<0.66	mg/kg dw	10/20/1998	keh	749	SM 8310
Fluorene (1,2,3-cd) pyrene	<0.29	mg/kg dw	10/20/1998	keh	749	SM 8310
Indeno (1,2,3-cd) pyrene	<0.82	mg/kg dw	10/20/1998	keh	749	SM 8310
Naphthalene	<0.82	mg/kg dw	10/20/1998	keh	749	SM 8310
Phenanthrene	<1.3	mg/kg dw	10/20/1998	keh	749	SM 8310
Pyrene	<0.66	mg/kg dw	10/20/1998	keh	749	SM 8310
Surr: p-Terphenyl	Diluted out					

PCB Non-Aqueous Extraction

PCB's NON-AQUEOUS	COMPLETE	10/11/1998	COMPLETE vna	363	SM 3540C
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PCB-1016	<0.44	mg/kg dw	10/15/1998	0.044	363	SM 8082
PCB-1221	<0.44	mg/kg dw	10/15/1998	0.044	363	SM 8082
PCB-1232	<0.44	mg/kg dw	10/15/1998	0.044	363	SM 8082
PCB-1242	<0.44	mg/kg dw	10/15/1998	0.044	363	SM 8082
PCB-1248	<0.44	mg/kg dw	10/15/1998	0.044	363	SM 8082
PCB-1254	<0.44	mg/kg dw	10/15/1998	0.044	363	SM 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
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11/04/1998  
Sample No. : 496643  
NET Job No.: 98.13012

Sample Description: S-21  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:35  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.44	mg/kg dw	10/15/1998	0.044	jrs	363 35	SW 8082
Decachlorobiphenyl (Surr)	72.0	µ	10/15/1998	NA	jrs	363 35	SW 8082
2,4,5,6-TCMX (Surr)	84.0	µ	10/15/1998	NA	jrs	363 35	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng

ENSR

740 Pasquinielli Drive  
Westmont, IL 60559

Sample No. : 496644  
NET Job No. : 98.13012

Sample Description: S-18  
Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:45  
Date Received: 10/07/1998  
Time Received: 16:40  
IEPA Cert. No. 100221  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analyte	Method	Analyst	Prep/Run	Analytical Method
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pH, Non-Aqueous	8.42	units	10/13/1998	0.10	nmg	166	SM 90458
Solids, Total	88.8	%	10/20/1998	0.1	etw	2490	SM 2540
Arsenic, GFAA	2.1	mg/kg dw	10/19/1998	0.56	mhp	217	SM 7060
Barium, ICP	158	mg/kg dw	10/23/1998	1.1	kdw	1140	SM 60108
Cadmium, ICP	<0.56	mg/kg dw	10/19/1998	0.56	jct	1140	SM 60108
Chromium, ICP	3.4	mg/kg dw	10/19/1998	2.3	jct	1140	SM 60108
Lead, ICP	6.9	mg/kg dw	10/19/1998	4.5	jct	1140	SM 60108
Mercury, CVA	<0.045	mg/kg dw	10/22/1998	0.045	sep	658	SM 7471A
Selenium, GFAA	<0.28	mg/kg dw	10/20/1998	0.28	mhp	217	SM 7740
Silver, AA	<2.3	mg/kg dw	10/21/1998	2.3	sep	476	SM 7760
...							
TPH as Gas	<560	mg/kg dw	11/03/1998	56	bcl	238	SM 8015M
TPH as Diesel	<560	mg/kg dw	11/03/1998	56	bcl	238	SM 8015M
TPH as Oil	743	mg/kg dw	11/03/1998	56	bcl	238	SM 8015M
N-octacosane (TPH surr)	113.0	%	11/03/1998		bcl	238	SM 8015M
Prep, TPH 8015M - NONAQUEOUS							
extracted							
TPH MODIFIED 8015			10/15/1998		ana	238	SM 8015M
Benzene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SM 8260A
Ethylbenzene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SM 8260A
Toluene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SM 8260A
Xylenes, Total	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SM 8260A
Dibromofluoromethane (Surr)	115.8	%	10/17/1998	81-129	mjo	36	SM 8260A
Toluene-d8 (Surr)	101.4	%	10/17/1998	74-129	mjo	36	SM 8260A
4-Bromofluoromethane (Surr)	97.0	%	10/17/1998	70-130	mjo	36	SM 8260A
Prep, 8310 RNAs NON-AQUEOUS							
extracted							
10/12/1998			10/12/1998		mmv	749	SM 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

11/04/1998  
Sample No. : 496644  
NET Job No. : 98.13012

Sample Description: S-18  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:45  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.23	mg/kg dw	10/20/1998	0.023	keh	749 1799	SW 8310
Acenaphthylene	<0.23	mg/kg dw	10/20/1998	0.023	keh	749 1799	SW 8310
Anthracene	<0.45	mg/kg dw	10/20/1998	0.045	keh	749 1799	SW 8310
Benzo(a)anthracene	<2.6	mg/kg dw	10/20/1998	0.0029	keh	749 1799	SW 8310
Benzo(b)fluoranthene	<0.20	mg/kg dw	10/20/1998	0.0041	keh	749 1799	SW 8310
Benzo(k)fluoranthene	<0.33	mg/kg dw	10/20/1998	0.0038	keh	749 1799	SW 8310
Benzo(a)pyrene	<0.18	mg/kg dw	10/20/1998	0.0052	keh	749 1799	SW 8310
Benzo(ghi)perylene	<0.45	mg/kg dw	10/20/1998	0.045	keh	749 1799	SW 8310
Chrysene	<0.3	mg/kg dw	10/20/1998	0.03	keh	749 1799	SW 8310
Dibenzo(a,h)anthracene	<0.087	mg/kg dw	10/20/1998	0.007	keh	749 1799	SW 8310
Fluoranthene	<0.23	mg/kg dw	10/20/1998	0.023	keh	749 1799	SW 8310
Fluorene	<0.23	mg/kg dw	10/20/1998	0.023	keh	749 1799	SW 8310
Indeno(1,2,3-cd)pyrene	<0.54	mg/kg dw	10/20/1998	0.0097	keh	749 1799	SW 8310
Naphthalene	<0.28	mg/kg dw	10/20/1998	0.028	keh	749 1799	SW 8310
Phenanthrene	<0.45	mg/kg dw	10/20/1998	0.045	keh	749 1799	SW 8310
Pyrene	<0.23	mg/kg dw	10/20/1998	0.023	keh	749 1799	SW 8310
Surr: p-Terphenyl	Masked		10/20/1998	43-125	keh	749 1799	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/20/1998	0.045	jrs	364 43	SW 8082
PCB-1221	<0.045	mg/kg dw	10/20/1998	0.045	jrs	364 43	SW 8082
PCB-1232	<0.045	mg/kg dw	10/20/1998	0.045	jrs	364 43	SW 8082
PCB-1242	<0.045	mg/kg dw	10/20/1998	0.045	jrs	364 43	SW 8082
PCB-1248	<0.045	mg/kg dw	10/20/1998	0.045	jrs	364 43	SW 8082
PCB-1254	<0.045	mg/kg dw	10/20/1998	0.045	jrs	364 43	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

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

Sample No.: 496644  
 NET Job No.: 98.13012

Date Received: 11/04/1998  
 Date Taken: 10/07/1998

Time Received: 16:40  
 Time Taken: 14:45

WDNR Cert. No. 999447130  
 IRPA Cert. No. 100221

Sample Description: S-18  
 Comed-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	Method	PQL	Analyst	Batch No.	Prep/Run	Method
PCB-1260	<0.045	mg/kg dw	10/20/1998	0.045	jrs	364	43	SM 8082	
Decachlorobiphenyl (Surr)	78.0	μ	10/20/1998	NA	jrs	364	43	SM 8082	
2,4,5,6-TCDF (Surr)	78.0	μ	10/20/1998	NA	jrs	364	43	SM 8082	



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**ANALYTICAL REPORT**

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

11/04/1998  
Sample No. : 496645  
NET Job No.: 98.13012

Sample Description: S-19  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:50  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.85	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	81.3	%	10/20/1998	0.1	efw	2490	SM 2540
Arsenic, GFAA	2.6	mg/kg dw	10/20/1998	0.62	mhp	217 655	SW 7060
Barium, ICP	517	mg/kg dw	10/23/1998	1.2	kdw	1140 2150	SW 6010B
Cadmium, ICP	0.62	mg/kg dw	10/19/1998	0.62	jtt	1140 2127	SW 6010B
Chromium, ICP	11	mg/kg dw	10/19/1998	2.5	jtt	1140 2113	SW 6010B
Lead, ICP	23	mg/kg dw	10/19/1998	4.9	jtt	1140 2349	SW 6010B
Mercury, CVAAs	<0.049	mg/kg dw	10/22/1998	0.049	sep	658 761	SW 7471A
Selenium, GFAA	<1.5	MX mg/kg dw	10/20/1998	0.31	mhp	217 539	SW 7740
Silver, AA	<2.5	mg/kg dw	10/21/1998	2.5	sep	476 564	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/15/1998		vna	238	SW 8015M
TPH as Gas	<6,200	mg/kg dw	11/03/1998	62	bt1	238 485	SW 8015M
TPH as Diesel	<6,200	mg/kg dw	11/03/1998	62	bt1	238 485	SW 8015M
TPH as Oil	77,500	PT mg/kg dw	11/03/1998	62	bt1	238 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/03/1998		bt1	238 485	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Toluene	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/17/1998	0.006	mjo	36	SW 8260A
Dibromofluoromethane (Surr)	95.4	%	10/17/1998	81-129	mjo	36	SW 8260A
Toluene-d8 (Surr)	99.6	%	10/17/1998	74-129	mjo	36	SW 8260A
4-Bromofluoromethane (Surr)	92.8	%	10/17/1998	70-130	mjo	36	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/12/1998		mmv	749	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  
Sample No. : 496645  
NET Job No. : 98.13012  
Date Taken: 10/07/1998  
Time Taken: 14:50  
Date Received: 10/07/1998  
Time Received: 16:40  
Sample Description: S-19  
Comed-Joliet #29; 1801-023-410  
Date Taken: 10/07/1998  
Time Taken: 14:50  
Date Received: 10/07/1998  
Time Received: 16:40  
IRPA Cert. No. 100221  
WDNR Cert. No. 999447130

Parameter Results Units Date of Analysis Method Analytic Batch No. Analytical Method

Parameter	Results	Units	Date of Analysis	Method	Analytic Batch No.	Analytical Method
Acenaphthene	<2.7	mg/kg dw	10/20/1998	keh	749	SM 8310
Acenaphthylene	<2.7	mg/kg dw	10/20/1998	keh	749	SM 8310
Anthracene	<5.4	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo(a)anthracene	<17	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo(b)fluoranthene	<0.49	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo(k)fluoranthene	<0.46	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo(a)pyrene	<0.63	mg/kg dw	10/20/1998	keh	749	SM 8310
Benzo(ghi)perylene	<5.4	mg/kg dw	10/20/1998	keh	749	SM 8310
Chrysene	<4	mg/kg dw	10/20/1998	keh	749	SM 8310
Dibenz(a,h)anthracene	<0.9	mg/kg dw	10/20/1998	keh	749	SM 8310
Fluoranthene	<2.7	mg/kg dw	10/20/1998	keh	749	SM 8310
Indeno(1,2,3-cd)pyrene	<1.2	mg/kg dw	10/20/1998	keh	749	SM 8310
Naphthalene	<3.4	mg/kg dw	10/20/1998	keh	749	SM 8310
Phenanthrene	<5.4	mg/kg dw	10/20/1998	keh	749	SM 8310
Pyrene	<2.7	mg/kg dw	10/20/1998	keh	749	SM 8310
Surf: p-Terphenyl	Diluted out					
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE vna	364	SM 3540C
PCB's NON-AQUEOUS						
PCB-1016	<0.049	mg/kg dw	10/16/1998	jrs	364	SM 8082
PCB-1221	<0.049	mg/kg dw	10/16/1998	jrs	364	SM 8082
PCB-1232	<0.049	mg/kg dw	10/16/1998	jrs	364	SM 8082
PCB-1242	<0.049	mg/kg dw	10/16/1998	jrs	364	SM 8082
PCB-1248	<0.049	mg/kg dw	10/16/1998	jrs	364	SM 8082
PCB-1254	<0.049	mg/kg dw	10/16/1998	jrs	364	SM 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

11/04/1998  
Sample No. : 496645  
NET Job No.: 98.13012

Sample Description: S-19  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 14:50  
IEPA Cert. No. 100221

Date Received: 10/07/1998  
Time Received: 16:40  
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	10/16/1998	0.049	jrs	364 37	SW 8082
Decachlorobiphenyl (Surr)	96.0	%	10/16/1998	NA	jrs	364 37	SW 8082
2,4,5,6-TCMX (Surr)	81.0	%	10/16/1998	NA	jrs	364 37	SW 8082



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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

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

11/04/1998
NET Job Number: 98.13012

Table with columns: Run, Batch, Analyte, CV, True Conc., Found Conc., Recovery Percent. Rows include various analytes like TPH as Gas, Lead, ICP, Arsenic, GFAA, etc.

CV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
N-octacosane (TPH surr)	479	100	101	101.0
TPH MODIFIED 8015				
TPH as Gas	479	2,500	2,620	104.8
TPH as Diesel	479	2,500	2,681	107.2
TPH as Oil	479	2,500	2,560	102.4
N-octacosane (TPH surr)	479	100	105	105.0
TPH MODIFIED 8015				
TPH as Gas	479	2,500	2,511	100.4
TPH as Diesel	479	2,500	2,541	101.6
TPH as Oil	479	2,500	2,454	98.2
N-octacosane (TPH surr)	479	100	99	99.0
TPH MODIFIED 8015				
TPH as Gas	479	2,500	2,340	93.6
TPH as Diesel	479	2,500	2,665	106.6
TPH as Oil	479	2,500	2,365	94.6
N-octacosane (TPH surr)	479	100	106	106.0
TPH MODIFIED 8015				
TPH as Gas	484	2,500	2,428	97.1
TPH as Diesel	484	2,500	2,770	110.8
TPH as Oil	484	2,500	2,350	94.0
N-octacosane (TPH surr)	484	100	109	109.0
TPH MODIFIED 8015				
TPH as Gas	484	2,500	2,461	98.4
TPH as Diesel	484	2,500	2,713	108.5
TPH as Oil	484	2,500	2,289	91.6
N-octacosane (TPH surr)	484	100	106	106.0
TPH MODIFIED 8015				
TPH as Gas	484	2,500	2,180	87.2
TPH as Diesel	484	2,500	2,868	114.7
TPH as Oil	484	2,500	2,249	90.0
N-octacosane (TPH surr)	484	100	112	112.0
TPH MODIFIED 8015				
TPH as Gas	484	2,500	2,763	110.5
TPH as Diesel	484	2,500	2,665	106.6

CCV - Continuing Calibration Verification

CCV - Continuing Calibration Verification

Run	Batch	CCV	True Conc.	Found Conc.	Percent Recovery
484	TPH as Oil	2,500	2,392	100	95.7
484	N-octacosane (TPH surr)	100	100	100.0	
484	TPH MODIFIED 8015	2,500	2,739	109.6	
484	TPH as Gas	2,500	2,412	96.5	
484	TPH as Diesel	2,500	2,412	96.5	
484	TPH as Oil	2,500	2,354	94.2	
484	N-octacosane (TPH surr)	100	95	95.0	
484	TPH MODIFIED 8015	2,500	2,524	101.0	
484	TPH as Gas	2,500	2,794	111.8	
484	TPH as Diesel	2,500	2,794	111.8	
484	TPH as Oil	2,500	2,398	95.9	
484	N-octacosane (TPH surr)	100	108	108.0	
484	TPH MODIFIED 8015	2,500	2,418	96.7	
484	TPH as Gas	2,500	2,529	101.2	
484	TPH as Diesel	2,500	2,529	101.2	
484	TPH as Oil	2,500	2,289	91.6	
484	N-octacosane (TPH surr)	100	107	107.0	
484	TPH MODIFIED 8015	2,500	2,639	105.6	
484	TPH as Gas	2,500	2,556	102.2	
484	TPH as Diesel	2,500	2,556	102.2	
484	TPH as Oil	2,500	2,429	97.2	
484	N-octacosane (TPH surr)	100	107	107.0	
484	TPH MODIFIED 8015	2,500	2,699	108.0	
484	TPH as Gas	2,500	2,613	104.5	
484	TPH as Diesel	2,500	2,613	104.5	
484	TPH as Oil	2,500	2,531	101.2	
484	N-octacosane (TPH surr)	100	110	110.0	
484	TPH MODIFIED 8015	2,500	2,726	109.0	
484	TPH as Gas	2,500			

ENSR  
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 Mr. Wei-Lin Feng  
 11/04/1998  
 NRT Job Number: 98.13012

QUALITY CONTROL REPORT  
 CONTINUING CALIBRATION VERIFICATION

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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
TPH as Diesel	485	2,500	2,458	98.3
TPH as Oil	485	2,500	2,528	101.1
N-octacosane (TPH surr)	485	100	107	107.0
UST VOLATILES NON-AQUEOUS				
Benzene	31	50.0	58.0	116.0
Ethylbenzene	31	50.0	50.0	100.0
Toluene	31	50.0	57.0	114.0
Xylenes, Total	31	150	141	94.0
UST VOLATILES NON-AQUEOUS				
Benzene	34	50.0	48.9	97.8
Ethylbenzene	34	50.0	49.8	99.6
Toluene	34	50.0	48.9	97.8
Xylenes, Total	34	150	147	98.0
UST VOLATILES NON-AQUEOUS				
Benzene	35	50.0	50.1	100.2
Ethylbenzene	35	50.0	47.2	94.4
Toluene	35	50.0	49.3	98.6
Xylenes, Total	35	150	137	91.3
UST VOLATILES NON-AQUEOUS				
Benzene	36	50.0	53.4	106.8
Ethylbenzene	36	50.0	54.7	109.4
Toluene	36	50.0	53.8	107.6
Xylenes, Total	36	150	156	104.0
UST VOLATILES NON-AQUEOUS				
Benzene	41	50.0	50.1	100.2
Ethylbenzene	41	50.0	53.4	106.8
Toluene	41	50.0	50.7	101.4
Xylenes, Total	41	150	155	103.3
UST VOLATILES NON-AQUEOUS				
Benzene	42	50.0	52.1	104.2
Ethylbenzene	42	50.0	54.8	109.6
Toluene	42	50.0	52.2	104.4
Xylenes, Total	42	150	156	104.0
PNA CMPDS - 8310 NONAQUEOUS				

CCV - Continuing Calibration Verification

MWG13-15\_23473

CCV - Continuing Calibration Verification

Run	Batch	True	Conc.	Found	Recovery
Number	Conc.	Conc.	Percent		
1798	1000	1,096	109.6	96.4	109.6
1798	1000	1,111	111.1	97.1	102.8
1798	1000	1,028	102.8	101.8	101.8
1798	1000	1,008	100.8	1,008	100.8
1798	1000	1,064	106.4	1,064	106.4
1798	1000	1,088	108.8	1,088	108.8
1798	1000	1,042	104.2	1,042	104.2
1798	1000	1,049	104.9	1,049	104.9
1798	1000	1,013	101.3	1,013	101.3
1798	1000	1,017	101.7	1,017	101.7
1798	1000	1,080	108.0	1,078	107.8
1798	1000	1,021	102.1	1,021	102.1
1798	1000	1,010	101.0	1,010	101.0
1798	1000	1,060	106.0	94.3	106.0
1798	1000	1,085	108.5	108.5	108.5
1798	1000	1,030	103.0	103.0	103.0
1798	1000	1,000	100.0	1,000	100.0
1798	1000	1,027	102.7	1,027	102.7
1798	1000	1,014	101.4	1,014	101.4
1798	1000	1,038	103.8	1,038	103.8
1798	1000	1,031	103.1	1,031	103.1
1798	1000	1,007	100.7	1,007	100.7
1798	1000	1,027	102.7	1,027	102.7
1798	1000	1,013	101.3	1,013	101.3
1798	1000	1,040	104.0	1,040	104.0
1798	1000	1,044	104.4	1,044	104.4
1798	1000	1,056	105.6	1,056	105.6
1798	1000	991	99.1	99.1	99.1

ENSR  
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 Mr. Wei-Lin Feng

11/04/1998  
 NET Job Number: 98.13012

QUALITY CONTROL REPORT  
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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
Surr: p-Terphenyl	1798	1000	1,044	104.4
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1798	1000	1,047	104.7
Acenaphthylene	1798	1000	936	93.6
Anthracene	1798	1000	1,080	108.0
Benzo (a) anthracene	1798	1000	1,029	102.9
Benzo (b) fluoranthene	1798	1000	990	99.0
Benzo (k) fluoranthene	1798	1000	976	97.6
Benzo (a) pyrene	1798	1000	942	94.2
Benzo (ghi) perylene	1798	1000	1,000	100.0
Chrysene	1798	1000	1,042	104.2
Dibenzo (a,h) anthracene	1798	1000	1,024	102.4
Fluoranthene	1798	1000	1,067	106.7
Fluorene	1798	1000	979	97.9
Indeno (1,2,3-cd) pyrene	1798	1000	973	97.3
Naphthalene	1798	1000	968	96.8
Phenanthrene	1798	1000	1,061	106.1
Pyrene	1798	1000	1,003	100.3
Surr: p-Terphenyl	1798	1000	1,004	100.4
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1798	1000	1,037	103.7
Acenaphthylene	1798	1000	977	97.7
Anthracene	1798	1000	1,085	108.5
Benzo (a) anthracene	1798	1000	1,054	105.4
Benzo (b) fluoranthene	1798	1000	977	97.7
Benzo (k) fluoranthene	1798	1000	1,036	103.6
Benzo (a) pyrene	1798	1000	949	94.9
Benzo (ghi) perylene	1798	1000	1,000	100.0
Chrysene	1798	1000	1,032	103.2
Dibenzo (a,h) anthracene	1798	1000	1,025	102.5
Fluoranthene	1798	1000	1,077	107.7
Fluorene	1798	1000	1,016	101.6
Indeno (1,2,3-cd) pyrene	1798	1000	971	97.1
Naphthalene	1798	1000	1,036	103.6

CCV - Continuing Calibration Verification

MWG13-15\_23475



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

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

11/04/1998

NET Job Number: 98.13012

Run	Batch	True	Conc.	Found	Recovery
Number	CV	Conc.	Percent		

Phenanthrene	1798	1000	1.037	103.7	
Pyrene	1798	1000	1.027	102.7	
Surf: p-Terphenyl	1798	1000	938	93.8	
FMA GMPDS - 8310 NONAQUEOUS					
Acenaphthene	1799	1000	985	98.5	
Acenaphthylene	1799	1000	1.062	106.2	
Anthracene	1799	1000	1.031	103.1	
Benzo (a) anthracene	1799	1000	1.052	105.2	
Benzo (b) Fluoranthene	1799	1000	941	94.1	
Benzo (k) Fluoranthene	1799	1000	986	98.6	
Benzo (a) pyrene	1799	1000	997	99.7	
Benzo (ghi) perylene	1799	1000	1.053	105.3	
Chrysene	1799	1000	1.047	104.7	
Dibenz (a, h) anthracene	1799	1000	1.005	100.5	
Fluoranthene	1799	1000	1.052	105.2	
Fluorene	1799	1000	1.037	103.7	
Indeno (1, 2, 3-cd) pyrene	1799	1000	1.032	103.2	
Naphthalene	1799	1000	1.027	102.7	
Phenanthrene	1799	1000	1.025	102.5	
Pyrene	1799	1000	1.030	103.0	
Surf: p-Terphenyl	1799	1000	983	98.3	
FMA GMPDS - 8310 NONAQUEOUS					
Acenaphthene	1799	1000	1.018	101.8	
Acenaphthylene	1799	1000	1.053	105.3	
Anthracene	1799	1000	1.052	105.2	
Benzo (a) anthracene	1799	1000	1.063	106.3	
Benzo (b) Fluoranthene	1799	1000	999	99.9	
Benzo (k) Fluoranthene	1799	1000	991	99.1	
Benzo (a) pyrene	1799	1000	992	99.2	
Benzo (ghi) perylene	1799	1000	1.089	108.9	
Chrysene	1799	1000	1.040	104.0	
Dibenz (a, h) anthracene	1799	1000	1.013	101.3	
Fluoranthene	1799	1000	1.053	105.3	
Fluorene	1799	1000	1.014	101.4	

CV - Continuing Calibration Verification





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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Indeno(1,2,3-cd)pyrene	1799	1000	995	99.5
Naphthalene	1799	1000	970	97.0
Phenanthrene	1799	1000	1,044	104.4
Pyrene	1799	1000	990	99.0
Surr: p-Terphenyl	1799	1000	1,008	100.8
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1799	1000	1,005	100.5
Acenaphthylene	1799	1000	1,075	107.5
Anthracene	1799	1000	1,059	105.9
Benzo(a)anthracene	1799	1000	1,053	105.3
Benzo(b)fluoranthene	1799	1000	973	97.3
Benzo(k)fluoranthene	1799	1000	1,014	101.4
Benzo(a)pyrene	1799	1000	1,001	100.1
Benzo(ghi)perylene	1799	1000	1,004	100.4
Chrysene	1799	1000	1,038	103.8
Dibenzo(a,h)anthracene	1799	1000	1,036	103.6
Fluoranthene	1799	1000	1,060	106.0
Fluorene	1799	1000	1,022	102.2
Indeno(1,2,3-cd)pyrene	1799	1000	1,041	104.1
Naphthalene	1799	1000	928	92.8
Phenanthrene	1799	1000	1,037	103.7
Pyrene	1799	1000	1,024	102.4
Surr: p-Terphenyl	1799	1000	999	99.9
PCB'S NON-AQUEOUS				
PCB-1016	31	500	488	97.6
PCB-1260	31	500	484	96.8
PCB'S NON-AQUEOUS				
PCB-1016	31	500	500	100.0
PCB-1260	31	500	489	97.8
PCB'S NON-AQUEOUS				
PCB-1016	34	500	489	97.8
PCB-1260	34	500	488	97.6
PCB'S NON-AQUEOUS				
PCB-1016	34	500	484	96.8

CCV - Continuing Calibration Verification

CCV - Continuing Calibration Verification

Analyte	Run	Batch	CV	True Conc.	Found Conc.	Recovery Percent
PCB-1260	34	500	481	96.2		
PCB'S NON-AGROUS	35	500	487	97.4		
PCB-1016	35	500	491	98.2		
PCB'S NON-AGROUS	35	500	503	100.6		
PCB-1260	35	500	467	93.4		
PCB'S NON-AGROUS	37	500	498	99.6		
PCB-1016	37	500	498	99.6		
PCB'S NON-AGROUS	37	500	500	100.0		
PCB-1260	37	500	530	106.0		
PCB'S NON-AGROUS	43	500	509	101.8		
PCB-1016	43	500	497	99.4		
PCB'S NON-AGROUS	43	500	505	101.0		
PCB-1260	43	500	480	96.0		

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11/04/1998  
 NRT Job Number: 98.13012

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	215	653	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	216	654	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	217	654	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1138	2150	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1139	2150	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1140	2150	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1138	2126	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1139	2126	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1140	2126	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1138	2112	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1139	2112	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1140	2112	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1138	2348	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1139	2348	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1140	2348	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	657	760	<0.040	mg/Kg	0.040	SW 7471A
Mercury, CVAA	658	761	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	215	538	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	216	538	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	217	539	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	474	563	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	475	563	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	476	564	<2.0	mg/Kg	2.0	SW 7760
TPH MODIFIED 8015						SW 8015M
TPH as Gas	238	479	<50.	mg/Kg	50	SW 8015M
TPH as Diesel	238	479	<50.	mg/Kg	50	SW 8015M
TPH as Oil	238	479	<50.	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	238	479	113.0	µ		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.**

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**QUALITY CONTROL REPORT**

**BLANK ANALYSIS**

11/04/1998

NET Job Number: 98.13012

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

Prep	Run	Batch	Batch	Number	Number	Results	Units	Reporting	Method	Analytical
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TPH as Gas	237	483	237	483	483	<50.	mg/Kg	50	SM 8015M	SM 8015M
TPH as Diesel	237	483	237	483	483	<50.	mg/Kg	50	SM 8015M	SM 8015M
TPH as Oil	237	483	237	483	483	<50.	mg/Kg	50	SM 8015M	SM 8015M
N-octacosane (TPH surr)	237	483	237	483	483	117.0	%		SM 8015M	SM 8015M

Benzenes	31	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Ethylbenzenes	31	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Toluenes	31	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Xylenes, Total	31	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Dibromofluoromethane (Surr)	31	90.0	%	80-120	SM 8260A	SM 8260A
Toluene-d8 (Surr)	31	106.0	%	81-117	SM 8260A	SM 8260A
4-Bromofluoromethane (Surr)	31	84.0	%	74-121	SM 8260A	SM 8260A

Benzenes	34	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Ethylbenzenes	34	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Toluenes	34	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Xylenes, Total	34	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Dibromofluoromethane (Surr)	34	85.2	%	80-120	SM 8260A	SM 8260A
Toluene-d8 (Surr)	34	93.2	%	81-117	SM 8260A	SM 8260A
4-Bromofluoromethane (Surr)	34	90.4	%	74-121	SM 8260A	SM 8260A

Benzenes	35	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Ethylbenzenes	35	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Toluenes	35	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Xylenes, Total	35	<0.005	mg/Kg	0.005	SM 8260A	SM 8260A
Dibromofluoromethane (Surr)	35	90.0	%	80-120	SM 8260A	SM 8260A
Toluene-d8 (Surr)	35	102.0	%	81-117	SM 8260A	SM 8260A
4-Bromofluoromethane (Surr)	35	90.0	%	74-121	SM 8260A	SM 8260A

Advisory Control Limits for Blanks:

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Benzene		36	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		36	<0.005	mg/Kg	0.005	SW 8260A
Toluene		36	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		36	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		36	104.0	µ	80-120	SW 8260A
Toluene-d8 (Surr)		36	113.6	µ	81-117	SW 8260A
4-Bromofluoromethane (Surr)		36	115.2	µ	74-121	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		41	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		41	<0.005	mg/Kg	0.005	SW 8260A
Toluene		41	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		41	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		41	102.6	µ	74-124	SW 8260A
Toluene-d8 (Surr)		41	107.8	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		41	110.8	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		42	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		42	<0.005	mg/Kg	0.005	SW 8260A
Toluene		42	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		42	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		42	99.0	µ	74-134	SW 8260A
Toluene-d8 (Surr)		42	107.8	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		42	110.4	µ	64-131	SW 8260A
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	748	1794	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	748	1794	<0.020	mg/Kg	0.020	SW 8310
Anthracene	748	1794	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	748	1794	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	748	1794	<0.0036	mg/Kg	0.0036	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.

MWG13-15\_23481



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**QUALITY CONTROL REPORT**

**BLANK ANALYSIS**

11/04/1998

NET Job Number: 98.13012

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

Analyte	Prep	Run	Batch	Batch	Number	Number	Results	Units	Reporting	Analytical	Method
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Benzo (k) Fluoranthene	748	1794	<0.0034	mg/Kg	0.0034	SM 8310					
Benzo (a) pyrene	748	1794	<0.0046	mg/Kg	0.0046	SM 8310					
Benzo (ghi) perylene	748	1794	<0.040	mg/Kg	0.040	SM 8310					
Chrysene	748	1794	<0.03	mg/Kg	0.03	SM 8310					
Dibenzo (a,h) anthracene	748	1794	<0.006	mg/Kg	0.006	SM 8310					
Fluoranthene	748	1794	<0.020	mg/Kg	0.020	SM 8310					
Indeno (1,2,3-cd) pyrene	748	1794	<0.0086	mg/Kg	0.0086	SM 8310					
Naphthalene	748	1794	<0.025	mg/Kg	0.025	SM 8310					
Phenanthrene	748	1794	<0.040	mg/Kg	0.040	SM 8310					
Pyrene	748	1794	<0.020	mg/Kg	0.020	SM 8310					
Sum: p-Terphenyl	748	1794	78.8	µ	43-125	SM 8310					
PMA CRDS - 8310 NONAQUEOUS											
Acenaphthene	749	1793	<0.020	mg/Kg	0.020	SM 8310					
Acenaphthylene	749	1793	<0.020	mg/Kg	0.020	SM 8310					
Anthracene	749	1793	<0.040	mg/Kg	0.040	SM 8310					
Benzo (a) anthracene	749	1793	<0.0026	mg/Kg	0.0026	SM 8310					
Benzo (b) Fluoranthene	749	1793	<0.0036	mg/Kg	0.0036	SM 8310					
Benzo (k) Fluoranthene	749	1793	<0.0034	mg/Kg	0.0034	SM 8310					
Benzo (a) pyrene	749	1793	<0.0046	mg/Kg	0.0046	SM 8310					
Benzo (ghi) perylene	749	1793	<0.040	mg/Kg	0.040	SM 8310					
Chrysene	749	1793	<0.03	mg/Kg	0.03	SM 8310					
Dibenzo (a,h) anthracene	749	1793	<0.006	mg/Kg	0.006	SM 8310					
Fluoranthene	749	1793	<0.020	mg/Kg	0.020	SM 8310					
Indeno (1,2,3-cd) pyrene	749	1793	<0.0086	mg/Kg	0.0086	SM 8310					
Naphthalene	749	1793	<0.025	mg/Kg	0.025	SM 8310					
Phenanthrene	749	1793	<0.040	mg/Kg	0.040	SM 8310					
Pyrene	749	1793	<0.020	mg/Kg	0.020	SM 8310					

Advisory Control Limits for Blanks:

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Surr: p-Terphenyl	749	1793	75.3	µ	43-125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	362	31	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	362	31	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	362	31	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	362	31	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	362	31	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	362	31	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	362	31	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	362	31	86.0	µ	NA	SW 8082
2,4,5,6-TCMX (Surr)	362	31	85.0	µ	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	363	33	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	363	33	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	363	33	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	363	33	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	363	33	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	363	33	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	363	33	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	363	33	100.0	µ	NA	SW 8082
2,4,5,6-TCMX (Surr)	363	33	96.0	µ	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	364	37	<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 Pasquinielli Drive  
 Westmont, IL 60559  
 Mr. Wei-Lin Feng

11/04/1998  
 NET Job Number: 98.13012

Prep	Run	Batch	Batch	Number	Number	Results	Units	Reporting	Analytical	Analyte
	Blank	364	364	37	37	90.0	%	NA	SW 8082	Decachlorobiphenyl (Surr)
						83.0	%	NA	SW 8082	2,4,5,6-TCDF (Surr)

Advisory Control Limits for Blanks:

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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	215	653	0.0100	0.0094	94.0
Arsenic, GFAA	216	654	0.0100	0.0083	83.0
Arsenic, GFAA	217	654	0.0100	0.0088	88.0
Barium, ICP	1138	2150	5.00	4.54	90.8
Barium, ICP	1139	2150	5.00	5.07	101.4
Barium, ICP	1140	2150	5.00	5.23	104.6
Cadmium, ICP	1138	2126	2.50	2.25	90.0
Cadmium, ICP	1139	2126	2.50	2.48	99.2
Cadmium, ICP	1140	2126	2.50	2.44	97.6
Chromium, ICP	1138	2112	5.00	4.65	93.0
Chromium, ICP	1139	2112	5.00	4.75	95.0
Chromium, ICP	1140	2112	5.00	4.80	96.0
Lead, ICP	1138	2348	5.00	6.15	123.0
Lead, ICP	1139	2348	5.00	5.45	109.0
Lead, ICP	1140	2348	5.00	6.35	127.0
Mercury, CVAA	657	760	0.0025	0.00274	109.6
Mercury, CVAA		760	0.0020	0.00211	105.5
Mercury, CVAA	658	761	0.0025	0.00256	102.4
Selenium, GFAA	215	538	0.0100	0.0111	111.0
Selenium, GFAA	216	538	0.0100	0.0103	103.0
Selenium, GFAA	217	539	0.0100	0.0092	92.0
Silver, AA	474	563	1.0	0.915	91.5
Silver, AA		563	0.10	0.104	104.0
Silver, AA	475	563	0.10	0.087	87.0
Silver, AA	476	564	0.1	0.110	110.0
TPH MODIFIED 8015					
TPH as Gas	238	479	200	223	111.5
TPH as Diesel	238	479	200	211	105.5
TPH as Oil	238	479	200	203	101.5
N-octacosane (TPH surr)	238	479	100	111	111.0
TPH MODIFIED 8015					



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**QUALITY CONTROL REPORT**  
 LABORATORY CONTROL STANDARD

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

11/04/1998  
 NET Job Number: 98.13012

Analyte	Prep Run	Batch Number	Conc. Found	True Conc.	LCs	% Recovery
TPH as Gas	237	483	200	234	117.0	
TPH as Diesel	237	483	200	232	116.0	
TPH as Oil	237	483	200	214	107.0	
N-octacosane (TPH surr)	237	483	100	116	116.0	
UST VOLATILES NON-AQUEOUS						
Benzene	31	31	20.0	27.0	135.0	
Ethylbenzene	31	31	20.0	23.0	115.0	
Toluene	31	31	20.0	25.0	125.0	
Xylenes, Total	31	31	60.0	63.0	105.0	
Dibromofluoromethane (Surr)	31	31	50.0	50.0	100.0	
Toluene-d8 (Surr)	31	31	50.0	59.0	118.0	
4-Bromofluoromethane (Surr)	31	31	50.0	45.0	90.0	
UST VOLATILES NON-AQUEOUS						
Benzene	34	34	20.0	19.5	97.5	
Ethylbenzene	34	34	20.0	20.0	100.0	
Toluene	34	34	20.0	20.0	100.0	
Xylenes, Total	34	34	60.0	59.3	98.8	
Dibromofluoromethane (Surr)	34	34	50.0	43.4	86.8	
Toluene-d8 (Surr)	34	34	50.0	46.1	92.2	
4-Bromofluoromethane (Surr)	34	34	50.0	45.4	90.8	
UST VOLATILES NON-AQUEOUS						
Benzene	35	35	20.0	21.0	105.0	
Ethylbenzene	35	35	20.0	19.3	96.5	
Toluene	35	35	20.0	20.7	103.5	
Xylenes, Total	35	35	60.0	57.0	95.0	
Dibromofluoromethane (Surr)	35	35	50.0	46.0	92.0	
Toluene-d8 (Surr)	35	35	50.0	53.0	106.0	
4-Bromofluoromethane (Surr)	35	35	50.0	46.0	92.0	
UST VOLATILES NON-AQUEOUS						
Benzene	36	36	20.0	21.1	105.5	
Ethylbenzene	36	36	20.0	22.6	113.0	



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**QUALITY CONTROL REPORT**  
**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Toluene		36	20.0	21.8	109.0
Xylenes, Total		36	60.0	64.0	106.7
Dibromofluoromethane (Surr)		36	50.0	53.8	107.6
Toluene-d8 (Surr)		36	50.0	54.4	108.8
4-Bromofluoromethane (Surr)		36	50.0	57.0	114.0
UST VOLATILES NON-AQUEOUS					
Benzene		41	20.0	20.9	104.5
Ethylbenzene		41	20.0	22.2	111.0
Toluene		41	20.0	21.3	106.5
Xylenes, Total		41	60.0	64.7	107.8
Dibromofluoromethane (Surr)		41	50.0	52.6	105.2
Toluene-d8 (Surr)		41	50.0	54.8	109.6
4-Bromofluoromethane (Surr)		41	50.0	55.3	110.6
UST VOLATILES NON-AQUEOUS					
Benzene		42	20.0	20.3	101.5
Ethylbenzene		42	20.0	21.8	109.0
Toluene		42	20.0	20.8	104.0
Xylenes, Total		42	60.0	62.7	104.5
Dibromofluoromethane (Surr)		42	50.0	50.3	100.6
Toluene-d8 (Surr)		42	50.0	54.7	109.4
4-Bromofluoromethane (Surr)		42	50.0	54.0	108.0
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	748	1794	0.033	0.031	93.9
Acenaphthylene	748	1794	0.033	0.030	90.9
Anthracene	748	1794	0.033	0.029	87.9
Benzo(a)anthracene	748	1794	0.033	0.031	93.9
Benzo(b)fluoranthene	748	1794	0.033	0.028	84.8
Benzo(k)fluoranthene	748	1794	0.033	0.029	87.9
Benzo(a)pyrene	748	1794	0.033	0.026	78.8
Benzo(ghi)perylene	748	1794	0.033	0.031	93.9
Chrysene	748	1794	0.033	0.030	90.9



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

**QUALITY CONTROL REPORT**  
**LABORATORY CONTROL STANDARD**

11/04/1998

NET Job Number: 98.13012

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

Analyte	Prep Run	Batch Number	Batch Number	True Conc.	Found Conc.	LCS & Recovery
Dibenzo (a,h) anthracene	748	1794	0.033	0.029	87.9	
Fluoranthene	748	1794	0.033	0.031	93.9	
Fluorene	748	1794	0.033	0.030	90.9	
Indeno (1,2,3-cd) pyrene	748	1794	0.033	0.027	81.8	
Naphthalene	748	1794	0.033	0.025	75.8	
Phenanthrene	748	1794	0.033	0.030	90.9	
Pyrene	748	1794	0.033	0.030	90.9	
Surf: p-Terphenyl	748	1794	2000	1.658	82.9	
FMA CMPS - 8310 NONAQUEOUS						
Acenaphthene	749	1793	0.033	0.030	90.9	
Acenaphthylene	749	1793	0.033	0.029	87.9	
Anthracene	749	1793	0.033	0.031	93.9	
Benzo (a) anthracene	749	1793	0.033	0.032	97.0	
Benzo (b) fluoranthene	749	1793	0.033	0.029	87.9	
Benzo (k) fluoranthene	749	1793	0.033	0.029	87.9	
Benzo (a) pyrene	749	1793	0.033	0.028	84.8	
Benzo (ghi) perylene	749	1793	0.033	0.031	93.9	
Chrysene	749	1793	0.033	0.031	93.9	
Dibenzo (a,h) anthracene	749	1793	0.033	0.030	90.9	
Fluoranthene	749	1793	0.033	0.032	97.0	
Fluorene	749	1793	0.033	0.030	90.9	
Indeno (1,2,3-cd) pyrene	749	1793	0.033	0.031	93.9	
Naphthalene	749	1793	0.033	0.029	87.9	
Phenanthrene	749	1793	0.033	0.031	93.9	
Pyrene	749	1793	0.033	0.032	97.0	
Surf: p-Terphenyl	749	1793	2000	1.757	87.8	
PCB'S NON-AQUEOUS						
PCB-1016	362	31	500	470	94.0	
PCB-1260	362	31	500	471	94.2	
Decachlorobiphenyl (Surf)	362	31	100	90	90.0	
2,4,5,6-TCMK (Surf)	362	31	100	89	89.0	



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13012

Mr. Wei-Lin Feng

Analyte	Prep	Run	True Conc.	Conc. Found	LCS % Recovery
	Batch Number	Batch Number			
PCB'S NON-AQUEOUS					
PCB-1016	363	33	500	496	99.2
PCB-1260	363	33	500	517	103.4
Decachlorobiphenyl (Surr)	363	33	100	100	100.0
2,4,5,6-TCMX (Surr)	363	33	100	96	96.0
PCB'S NON-AQUEOUS					
PCB-1016	364	37	500	477	95.4
PCB-1260	364	37	500	499	99.8
Decachlorobiphenyl (Surr)	364	37	100	93	93.0
2,4,5,6-TCMX (Surr)	364	37	100	87	87.0

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.

Analyte	Prep Run	Batch Number	Batch Number	Original Analyze	Duplicate Analyze	Units	RPD
pH, Non-Aqueous	163	8.32	8.23	untcs	1.1		
pH, Non-Aqueous	164	10.40	10.31	untcs	0.9		
pH, Non-Aqueous	165	9.22	9.17	untcs	0.5		
pH, Non-Aqueous	166	7.85	7.76	untcs	1.2		
Solids, Total	2477	89.0	88.9		0.1		
Solids, Total	2477	81.8	79.3		3.1		
Solids, Total	2477	67.9	72.9		7.1		
Solids, Total	2490	94.5	94.6		0.1		
Solids, Total	2490	82.6	81.9		0.9		
Solids, Total	2501	79.7	83.6		4.8		
Solids, Total	2501	63.7	64.7		1.6		

Mr. Wei-Lin Feng

ENSR  
 740 Pasquinielli Drive  
 Westmont, IL 60559

NET Job Number: 98.13012

11/04/1998

DUPLICATES

QUALITY CONTROL REPORT

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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.
- Surrogate : 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", US EPA 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", US EPA SW-846. It has been dropped from the 3rd Edition, 1986.

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**NATIONAL ENVIRONMENTAL TESTING, INC.**<sup>®</sup>







NATIONAL ENVIRONMENTAL TESTING, INC.

**CHAIN OF CUSTODY RECORD**

COMPANY: ENSR  
 ADDRESS: 740 Pasquinielli Drive - Westmont IL  
 PHONE: (630) 857-1700 FAX: (630) 850-5307  
 PROJECT NAME/LOCATION: Com.Ed Joliet #29  
 PROJECT NUMBER: 1801-023-410  
 PROJECT MANAGER: Wei-Lin Feng / Karen Dolnic

REPORT TO: Wei-Lin Feng  
 INVOICE TO: \_\_\_\_\_  
 P.O. NO.: \_\_\_\_\_  
 NET QUOTE NO.: \_\_\_\_\_

SAMPLED BY: Charlene Howell SIGNATURE: Charlene Howell  
 (PRINT NAME) SIGNATURE: \_\_\_\_\_  
 (PRINT NAME) SIGNATURE: \_\_\_\_\_

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	# and Type of Containers							ANALYSES	COMMENTS			
				GRAB	COMP	HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	OTHER					
10/7	9:10	S-5	SX								X	X	X	X	1-4oz, 1-16oz
	9:20	X-1													
	9:40	S-2													
	9:46	S-4													
	10:00	S-3													
	10:10	X-2													
	10:20	X-3													
	10:25	X-4													
	10:35	S-1													
	10:45	S-22													
	10:57	S-6													
	11:05	S-7													
	13:09	S-8													
	13:12	S-9													
	13:35	X-5													

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: 16.8' wet log  
 Bottles supplied by NET: YES/NO

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

RELINQUISHED BY: Charlene Howell DATE: 10/7/98 TIME: 14:58  
 RECEIVED BY: Robert Cooper DATE: 10/7/98 TIME: 16:50  
 METHOD OF SHIPMENT: Pickup - Net  
 REMARKS: Max 10-day turnaround

## CHAIN OF CUSTODY RECORD

COMPANY: ENSR  
 ADDRESS: 740 Pasarelli Drive Westmont, IL  
 PHONE: (630) 887-1700 FAX: (630) 850-5307  
 PROJECT NAME/LOCATION: Pomona Ed. Relief #29  
 PROJECT NUMBER: 1801-023-49  
 PROJECT MANAGER: Wei-Lin Fung/Karen Dolnic

REPORT TO: Wei-Lin Fung

INVOICE TO: \_\_\_\_\_  
 P.O. NO.: \_\_\_\_\_  
 NET QUOTE NO.: \_\_\_\_\_

SAMPLED BY: Charlene Howell  
 (PRINT NAME) SIGNATURE: Charlene Howell

SIGNATURE: Charlene Howell

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 regulators apply: RCRA \_\_\_ NPDES Wastewater \_\_\_  
 UST \_\_\_ Drinking Water \_\_\_  
 Other \_\_\_ None \_\_\_

COMMENTS

1-402, 1-1602

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	OTHER	ANALYSES									
											pH (89045)	PnAs (8310)	BTEX (8260)	TPH (8015)	PCBs (8081)	RCRA Metals (Totals)				
10/7	13:50	S-15	S	X							X	X	X	X	X	X				
	13:57	S-16	S	X							X	X	X	X	X	X				
	14:10	S-17	S	X							X	X	X	X	X	X				
	14:22	X-6	S	X							X	X	X	X	X	X				
	14:30	S-20	S	X							X	X	X	X	X	X				
	14:36	S-21	S	X							X	X	X	X	X	X				
	14:45	S-18	S	X							X	X	X	X	X	X				
	14:50	S-19	S	X							X	X	X	X	X	X				

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: 18.5  
 Bottles supplied by NET?  YES /  NO

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

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RECEIVED FOR NET BY:
<u>Charlene Howell</u>	<u>10/7/98</u>	<u>14:58</u>	<u>Stacy Jackson</u>	<u>10/7/98</u>	<u>16:50</u>	<u>Stacy Jackson</u>
METHOD OF SHIPMENT: <u>Pickup - NET</u>						
REMARKS: <u>Months-long turnaround</u>						



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

11/06/1998

NET Job Number: 98.13082

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-Joliet #29; 1801-023-410

Sample Number	Sample Description	Date Taken	Date Received
496966	S-10	10/07/1998	10/08/1998
496967	S-11	10/07/1998	10/08/1998
496968	S-12	10/07/1998	10/08/1998
496969	S-13	10/07/1998	10/08/1998
496970	S-14	10/07/1998	10/08/1998
496971	B-13 (0-3)	10/08/1998	10/08/1998
496972	B-1 (0-3)	10/08/1998	10/08/1998
496973	B-4 (0-4)	10/08/1998	10/08/1998
496974	S-23	10/08/1998	10/08/1998
496975	B-3 (0-4)	10/08/1998	10/08/1998
496976	B-5-S	10/08/1998	10/08/1998
496977	B-6 (0-2)	10/08/1998	10/08/1998
496978	B-8 (0-3)	10/08/1998	10/08/1998

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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**ANALYTICAL REPORT**

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

Sample No. : 496966  
NET Job No. : 98.13082

Date Taken: 10/07/1998  
Time Taken: 15:05  
Date Received: 10/08/1998  
Time Received: 17:00

Sample Description: S-10  
Comed-Joliet #29; 1801-023-410

IEPA Cert. No. 100221  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Method
pH, Non-Aqueous	7.95	units	10/14/1998	0.10	nmg	170	SM 90458	
Solids, Total	88.8	%	10/29/1998	0.1	efw	2502	SM 2540	
Arsenic, GFAA	8.9	mg/kg dw	10/25/1998	0.56	mhp	221	SM 7060	
Barium, ICP	1.350	mg/kg dw	10/28/1998	1.1	kdm	1146	SM 60108	
Cadmium, ICP	2.1	mg/kg dw	10/20/1998	0.56	kdm	1146	SM 60108	
Chromium, ICP	23	mg/kg dw	10/20/1998	2.3	kdm	1146	SM 60108	
Lead, ICP	721	mg/kg dw	10/20/1998	4.5	kdm	1146	SM 60108	
Mercury, CVAA	0.18	mg/kg dw	10/23/1998	0.045	sep	660	SM 7471A	
Selenium, GFAA	0.71	mg/kg dw	10/26/1998	0.28	mhp	221	SM 7740	
Silver, AA	<2.3	mg/kg dw	10/21/1998	2.3	sep	479	SM 7760	
Prep, TPH 8015M - NONAQUEOUS	extracted		10/15/1998		wna	238	SM 8015M	
TPH MODIFIED 8015	<5,600	mg/kg dw	11/04/1998	56	btl	238	SM 8015M	
TPH as Gas	<5,600	mg/kg dw	11/04/1998	56	btl	238	SM 8015M	
TPH as Diesel	<5,600	mg/kg dw	11/04/1998	56	btl	238	SM 8015M	
TPH as Oil	105,000	mg/kg dw	11/04/1998	56	btl	238	SM 8015M	
N-octacosane (TPH surr)	Diluted out		11/04/1998		btl	238	SM 8015M	
UST VOLATILES NON-AQUEOUS								
Benzene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	42	SM 8260A	
Ethylbenzene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	42	SM 8260A	
Toluene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	42	SM 8260A	
Xylenes, Total	<0.006	mg/kg dw	10/19/1998	0.006	mjo	42	SM 8260A	
Toluene-d8 (Surr)	100.4	%	10/19/1998	74-129	mjo	42	SM 8260A	
4-Bromofluoromethane (Surr)	101.0	%	10/19/1998	70-130	mjo	42	SM 8260A	
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/14/1998		mmv	750	SM 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

11/06/1998  
Sample No. : 496966  
NET Job No.: 98.13082

Sample Description: S-10  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 15:05  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	<2.5	mg/kg dw	10/23/1998	0.023	keh	750 1807	SW 8310
Acenaphthylene	<2.5	mg/kg dw	10/23/1998	0.023	keh	750 1807	SW 8310
Anthracene	<5.0	mg/kg dw	10/23/1998	0.045	keh	750 1807	SW 8310
Benzo(a)anthracene	<2.8	mg/kg dw	10/23/1998	0.0029	keh	750 1807	SW 8310
Benzo(b)fluoranthene	<0.45	mg/kg dw	10/23/1998	0.0041	keh	750 1807	SW 8310
Benzo(k)fluoranthene	<0.42	mg/kg dw	10/23/1998	0.0038	keh	750 1807	SW 8310
Benzo(a)pyrene	<0.57	mg/kg dw	10/23/1998	0.0052	keh	750 1807	SW 8310
Benzo(ghi)perylene	<5.0	mg/kg dw	10/23/1998	0.045	keh	750 1807	SW 8310
Chrysene	<3	mg/kg dw	10/23/1998	0.03	keh	750 1807	SW 8310
Dibenzo(a,h)anthracene	<0.8	mg/kg dw	10/23/1998	0.007	keh	750 1807	SW 8310
Fluoranthene	<2.5	mg/kg dw	10/23/1998	0.023	keh	750 1807	SW 8310
Fluorene	<2.5	mg/kg dw	10/23/1998	0.023	keh	750 1807	SW 8310
Indeno(1,2,3-cd)pyrene	<1.1	mg/kg dw	10/23/1998	0.0097	keh	750 1807	SW 8310
Naphthalene	<3.2	mg/kg dw	10/23/1998	0.028	keh	750 1807	SW 8310
Phenanthrene	<5.0	mg/kg dw	10/23/1998	0.045	keh	750 1807	SW 8310
Pyrene	<2.5	mg/kg dw	10/23/1998	0.023	keh	750 1807	SW 8310
Surr: p-Terphenyl	Diluted out		10/23/1998	43-125	keh	750 1807	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE	wna	368	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/20/1998	0.045	jrs	368 40	SW 8082
PCB-1221	<0.045	mg/kg dw	10/20/1998	0.045	jrs	368 40	SW 8082
PCB-1232	<0.045	mg/kg dw	10/20/1998	0.045	jrs	368 40	SW 8082
PCB-1242	<0.045	mg/kg dw	10/20/1998	0.045	jrs	368 40	SW 8082
PCB-1248	<0.045	mg/kg dw	10/20/1998	0.045	jrs	368 40	SW 8082
PCB-1254	<0.045	mg/kg dw	10/20/1998	0.045	jrs	368 40	SW 8082

ELV : Elevated reporting limits due to matrix interference.

Date Taken: 10/07/1998  
 Time Taken: 15:05  
 EPA cert. No. 100221  
 Date Received: 10/08/1998  
 Time Received: 17:00  
 WDNR Cert. No. 999447130

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

Sample Description: S-10  
 Comed-Joliet #29; 1801-023-410

NET Job No.: 98.13082  
 Sample No.: 496966  
 11/06/1998

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PCB-1260	<0.045	mg/kg dw	10/20/1998	0.045	Jrs	368 40	SW 8082
Decachlorobiphenyl (Surr)	120.0	%	10/20/1998	NA	Jrs	368 40	SW 8082
2,4,5,6-TCMX (Surr)	100.0	%	10/20/1998	NA	Jrs	368 40	SW 8082

ANALYTICAL REPORT



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**ANALYTICAL REPORT**

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

11/06/1998  
Sample No. : 496967  
NET Job No.: 98.13082

Sample Description: S-11  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 15:10  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	7.58	units	10/14/1998	0.10	nwg	170	SW 90458
Solids, Total	88.3	%	10/29/1998	0.1	efw	2502	SM 2540
Arsenic, GFAA	5.5	mg/kg dw	10/25/1998	0.57	mhp	221 661	SW 7060
Barium, ICP	555	mg/kg dw	10/28/1998	1.1	kdw	1146 2159	SW 60108
Cadmium, ICP	1.6	mg/kg dw	10/20/1998	0.57	kdw	1146 2130	SW 60108
Chromium, ICP	11	mg/kg dw	10/20/1998	2.3	kdw	1146 2116	SW 60108
Lead, ICP	110	mg/kg dw	10/20/1998	4.5	kdw	1146 2352	SW 60108
Mercury, CVAAs	0.080	mg/kg dw	10/23/1998	0.045	sep	660 764	SW 7471A
Selenium, GFAA	0.46	mg/kg dw	10/26/1998	0.28	mhp	221 548	SW 7740
Silver, AA	<2.3	mg/kg dw	10/21/1998	2.3	sep	479 564	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/15/1998		wna	238	SW 8015M
TPH as Gas	<5,700	mg/kg dw	11/04/1998	57	btl	238 485	SW 8015M
TPH as Diesel	<5,700	mg/kg dw	11/04/1998	57	btl	238 485	SW 8015M
TPH as Oil	63,400 PT	mg/kg dw	11/04/1998	57	btl	238 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/04/1998		btl	238 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	42	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	42	SW 8260A
Toluene	<0.006	mg/kg dw	10/19/1998	0.006	mjo	42	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/19/1998	0.006	mjo	42	SW 8260A
Toluene-d8 (Surr)	99.8	%	10/19/1998	74-129	mjo	42	SW 8260A
4-Bromofluoromethane (Surr)	103.0	%	10/19/1998	70-130	mjo	42	SW 8260A
Prep, 8310 PNAAs NON-AQUEOUS	extracted		10/14/1998		mmv	750	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 Pasquini Drive  
Westmont, IL 60559  
Sample No. : 496967  
NET Job No.: 98.13082  
Date Taken: 10/07/1998  
Time Taken: 15:10  
Date Received: 10/08/1998  
Time Received: 17:00  
Sample Description: S-11  
Comed-Joliet #29; 1801-023-410  
Date Taken: 10/07/1998  
Time Taken: 15:10  
Date Received: 10/08/1998  
Time Received: 17:00  
WMDR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Method
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Acenaphthene	<2.3	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Acenaphthylene	<2.3	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Anthracene	<4.5	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Benzo(a)anthracene	<4.8	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Benzo(b)fluoranthene	<0.41	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Benzo(k)fluoranthene	<0.39	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Benzo(a)pyrene	<0.52	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Benzo(ghi)perylene	<4.5	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Chrysene	<3	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Dibenz(a,h)anthracene	<0.7	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Fluoranthene	<2.3	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Fluorene	<2.3	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Indeno(1,2,3-cd)pyrene	<0.97	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Naphthalene	<2.8	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Phenanthrene	<4.5	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Pyrene	<2.3	mg/kg dw	10/23/1998	keh	750	1807	SW 8310	
Surr: p-Terphenyl	Diluted out							
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE wna	368		SW 3540C	
PCB-1016	<0.045	mg/kg dw	10/20/1998	hrs	368	40	SW 8082	
PCB-1221	<0.045	mg/kg dw	10/20/1998	hrs	368	40	SW 8082	
PCB-1232	<0.045	mg/kg dw	10/20/1998	hrs	368	40	SW 8082	
PCB-1242	<0.045	mg/kg dw	10/20/1998	hrs	368	40	SW 8082	
PCB-1248	<0.045	mg/kg dw	10/20/1998	hrs	368	40	SW 8082	
PCB-1254	<0.045	mg/kg dw	10/20/1998	hrs	368	40	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

11/06/1998  
Sample No. : 496967  
NET Job No.: 98.13082

Sample Description: S-11  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 15:10  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	0.37	mg/kg dw	10/20/1998	0.045	jrs	368 40	SW 8082
Decachlorobiphenyl (Surr)	103.0	%	10/20/1998	NA	jrs	368 40	SW 8082
2,4,5,6-TCMX (Surr)	106.0	%	10/20/1998	NA	jrs	368 40	SW 8082



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**ANALYTICAL REPORT**

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

Sample No. : 496968  
 NET Job No. : 98.13082

Sample Description: S-12  
 Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
 Time Taken: 15:15  
 EPA Cert. No. 100221

Date Received: 10/08/1998  
 Time Received: 17:00  
 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run Method
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PH, Non-Aqueous	6.71	units	10/14/1998	0.10	nmg	170	SM 90458
Solids, Total	93.0	%	10/29/1998	0.1	efm	2502	SM 2540
Arsenic, GFAA	4.7	mg/kg dm	10/25/1998	0.54	mhp	221	SM 7060
Barium, ICP	892	mg/kg dm	10/28/1998	1.1	kdm	1146	SM 60108
Cadmium, ICP	9.9	mg/kg dm	10/20/1998	0.54	kdm	1146	SM 60108
Chromium, ICP	29	mg/kg dm	10/20/1998	2.2	kdm	1146	SM 60108
Lead, ICP	366	mg/kg dm	10/20/1998	4.3	kdm	1146	SM 60108
Mercury, CVA	0.19	mg/kg dm	10/23/1998	0.043	sep	660	SM 7471A
Selenium, GFAA	0.37	mg/kg dm	10/26/1998	0.27	mhp	221	SM 7740
Silver, AA	<2.2	mg/kg dm	10/22/1998	2.2	sep	481	SM 7760

Prep, TPH 8015M - NONAQUEOUS	extracted	10/15/1998	wna	238	SM 8015M
TPH as Gas	<5,400	mg/kg dm	11/04/1998	54	SM 8015M
TPH as Diesel	<5,400	mg/kg dm	11/04/1998	54	SM 8015M
TPH as Oil	87,100	mg/kg dm	11/04/1998	54	SM 8015M
N-octacosane (TPH surr)	Diluted out	11/04/1998	btl	238	SM 8015M
UST VOLATILES NON-AQUEOUS					
Benzene	<0.005	mg/kg dm	10/19/1998	0.005	SM 8260A
Ethylbenzene	<0.005	mg/kg dm	10/19/1998	0.005	SM 8260A
Toluene	<0.005	mg/kg dm	10/19/1998	0.005	SM 8260A
Xylenes, Total	<0.005	mg/kg dm	10/19/1998	0.005	SM 8260A
Toluene-d8 (Surr)	100.0	%	10/19/1998	74-129	SM 8260A
4-Bromofluoromethane (Surr)	104.0	%	10/19/1998	70-130	SM 8260A
Prep, B310 PHAS NON-AQUEOUS	extracted	10/14/1998	mmv	750	SM 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

11/06/1998  
Sample No. : 496968  
NET Job No.: 98.13082

Sample Description: S-12  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	<4.3	mg/kg dw	10/23/1998	0.022	keh	750 1807	SW 8310
Acenaphthylene	<4.3	mg/kg dw	10/23/1998	0.022	keh	750 1807	SW 8310
Anthracene	<8.6	mg/kg dw	10/23/1998	0.043	keh	750 1807	SW 8310
Benzo(a)anthracene	<3.7	mg/kg dw	10/23/1998	0.0028	keh	750 1807	SW 8310
Benzo(b)fluoranthene	1.5	mg/kg dw	10/23/1998	0.0039	keh	750 1807	SW 8310
Benzo(k)fluoranthene	0.92	mg/kg dw	10/23/1998	0.0037	keh	750 1807	SW 8310
Benzo(a)pyrene	<0.99	mg/kg dw	10/23/1998	0.0049	keh	750 1807	SW 8310
Benzo(ghi)perylene	<8.6	mg/kg dw	10/23/1998	0.043	keh	750 1807	SW 8310
Chrysene	<6	mg/kg dw	10/23/1998	0.03	keh	750 1807	SW 8310
Dibenzo(a,h)anthracene	<1	mg/kg dw	10/23/1998	0.006	keh	750 1807	SW 8310
Fluoranthene	<4.3	mg/kg dw	10/23/1998	0.022	keh	750 1807	SW 8310
Fluorene	<4.3	mg/kg dw	10/23/1998	0.022	keh	750 1807	SW 8310
Indeno(1,2,3-cd)pyrene	<1.8	mg/kg dw	10/23/1998	0.0092	keh	750 1807	SW 8310
Naphthalene	<5.4	mg/kg dw	10/23/1998	0.027	keh	750 1807	SW 8310
Phenanthrene	<8.6	mg/kg dw	10/23/1998	0.043	keh	750 1807	SW 8310
Pyrene	<4.3	mg/kg dw	10/23/1998	0.022	keh	750 1807	SW 8310
Surr: p-Terphenyl	Diluted out		10/23/1998	43-125	keh	750 1807	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE	wna	368	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368 40	SW 8082
PCB-1221	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368 40	SW 8082
PCB-1232	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368 40	SW 8082
PCB-1242	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368 40	SW 8082
PCB-1248	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368 40	SW 8082
PCB-1254	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368 40	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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

Sample No. : 496968  
 NET Job No. : 98.13082

Date Taken: 10/07/1998  
 Time Taken: 15:15  
 EPA Cert. No. 100221

Date Received: 10/08/1998  
 Time Received: 17:00  
 WDNR Cert. No. 999447130

Sample Description: S-12  
 ComEd-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PCB-1260	<0.043	mg/kg dw	10/20/1998	PQL	Jrs	368 40	SW 8082
Decachlorobiphenyl (Surr)	47.0	%	10/20/1998	NA	Jrs	368 40	SW 8082
2,4,5,6-TCMX (Surr)	45.0	%	10/20/1998	NA	Jrs	368 40	SW 8082

ANALYTICAL REPORT

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**ANALYTICAL REPORT**

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

11/06/1998  
Sample No. : 496969  
NET Job No.: 98.13082

Sample Description: S-13  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 15:25  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	8.13	units	10/14/1998	0.10	nwg	170	SW 9045B
Solids, Total	75.0	%	10/29/1998	0.1	efw	2502	SM 2540
Arsenic, GFAA	5.9	mg/kg dw	10/25/1998	0.67	mhp	221 661	SW 7060
Barium, ICP	933	mg/kg dw	10/28/1998	1.3	kdw	1146 2159	SW 6010B
Cadmium, ICP	2.7	mg/kg dw	10/20/1998	0.67	kdw	1146 2130	SW 6010B
Chromium, ICP	19	mg/kg dw	10/20/1998	2.7	kdw	1146 2116	SW 6010B
Lead, ICP	187	mg/kg dw	10/20/1998	5.3	kdw	1146 2352	SW 6010B
Mercury, CVA	<0.053	mg/kg dw	10/23/1998	0.053	sep	660 764	SW 7471A
Selenium, GFAA	0.40	mg/kg dw	10/26/1998	0.33	mhp	221 548	SW 7740
Silver, AA	<2.7	mg/kg dw	10/22/1998	2.7	sep	481 565	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/15/1998		wna	238	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<6,700	mg/kg dw	11/04/1998	67	btl	238 485	SW 8015M
TPH as Diesel	<6,700	mg/kg dw	11/04/1998	67	btl	238 485	SW 8015M
TPH as Oil	76,000 PT	mg/kg dw	11/04/1998	67	btl	238 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		11/04/1998		btl	238 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/19/1998	0.007	jap	40	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/19/1998	0.007	jap	40	SW 8260A
Toluene	<0.007	mg/kg dw	10/19/1998	0.007	jap	40	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/19/1998	0.007	jap	40	SW 8260A
Toluene-d8 (Surr)	94.0	%	10/19/1998	74-129	jap	40	SW 8260A
4-Bromofluoromethane (Surr)	94.0	%	10/19/1998	70-130	jap	40	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/14/1998		nmv	750	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 Pasquini Drive  
Westmont, IL 60559

Sample No. : 496969  
NET Job No. : 98.13082

Sample Description: S-13  
Comed-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 15:25  
EPA Cert. No. 100221  
Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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Acenaphthene	<2.7	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Acenaphthylene	<2.7	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Anthracene	<5.3	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Benzo(a)anthracene	<6.4	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Benzo(b)fluoranthene	0.92	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Benzo(k)fluoranthene	0.69	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Benzo(a)pyrene	<0.61	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Benzo(ghi)perylene	<5.3	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Chrysene	<4	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Dibenzo(a,h)anthracene	<0.8	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Fluoranthene	<2.7	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Fluorene	<2.7	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Indeno(1,2,3-cd)pyrene	<1.1	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Naphthalene	<3.3	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Phenanthrene	<5.3	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Pyrene	<2.7	mg/kg dm	10/23/1998	keh	750	1807	SW 8310
Surf: p-Terphenyl	Diluted out		10/23/1998	keh	750	1807	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE wna	368		SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.053	mg/kg dm	10/20/1998	hrs	368	40	SW 8082
PCB-1221	<0.053	mg/kg dm	10/20/1998	hrs	368	40	SW 8082
PCB-1232	<0.053	mg/kg dm	10/20/1998	hrs	368	40	SW 8082
PCB-1242	<0.053	mg/kg dm	10/20/1998	hrs	368	40	SW 8082
PCB-1248	<0.053	mg/kg dm	10/20/1998	hrs	368	40	SW 8082
PCB-1254	<0.053	mg/kg dm	10/20/1998	hrs	368	40	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

11/06/1998  
Sample No. : 496969  
NET Job No.: 98.13082

Sample Description: S-13  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 15:25  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	10/20/1998	0.053	jrs	368 40	SW 8082
Decachlorobiphenyl (Surr)	95.0	%	10/20/1998	NA	jrs	368 40	SW 8082
2,4,5,6-TCMX (Surr)	99.0	%	10/20/1998	NA	jrs	368 40	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquini Drive  
Westmont, IL 60559  
NET Job No.: 98.13082  
Sample No.: 496970

Sample Description: S-14  
Comed-Joliet #29; 1801-023-410  
Date Taken: 10/07/1998  
Time Taken: 15:30  
IEPA Cert. No. 100221  
Date Received: 10/08/1998  
Time Received: 17:00  
MDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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PH, Non-Aqueous	7.27	units	10/16/1998	0.10	nmg	170	SM 90458
Solids, Total	81.2	%	10/29/1998	0.1	etw	2502	SM 2540
Arsenic, GFAA	4.8	M+	10/25/1998	0.62	mhp	223	SM 7060
Barium, ICP	1,350	mg/kg dm	10/28/1998	1.2	kdm	1146	SM 60108
Cadmium, ICP	2.2	mg/kg dm	10/20/1998	0.62	kdm	1146	SM 60108
Chromium, ICP	20	mg/kg dm	10/20/1998	2.5	kdm	1146	SM 60108
Lead, ICP	283	mg/kg dm	10/20/1998	4.9	kdm	1146	SM 60108
Mercury, CVA	0.18	mg/kg dm	10/23/1998	0.049	sep	660	SM 7471A
Selenium, GFAA	0.71	mg/kg dm	10/26/1998	0.31	mhp	223	SM 7740
Silver, AA	<2.5	mg/kg dm	10/22/1998	2.5	sep	481	SM 7760

Prep, TPH 8015M - NONAQUEOUS	extracted	10/15/1998	hna	238	SM 8015M
TPH MODIFIED 8015					
TPH as Gas	<12,000	mg/kg dm	11/05/1998	62	SM 8015M
TPH as Diesel	<12,000	mg/kg dm	11/05/1998	62	SM 8015M
TPH as Oil	135,000	mg/kg dm	11/05/1998	62	SM 8015M
N-octacosane (TPH surf)	diluted out	11/05/1998	btl	238	SM 8015M
UST VOLATILES NON-AQUEOUS					
Benzene	<0.006	mg/kg dm	10/19/1998	0.006	SM 8260A
Ethylbenzene	<0.006	mg/kg dm	10/19/1998	0.006	SM 8260A
Toluene	<0.006	mg/kg dm	10/19/1998	0.006	SM 8260A
Xylenes, Total	<0.006	mg/kg dm	10/19/1998	0.006	SM 8260A
Toluene-d8 (Surf)	104.0	%	10/19/1998	74-129	SM 8260A
4-Bromofluoromethane (Surf)	102.0	%	10/19/1998	70-130	SM 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted	10/16/1998	mmv	750	SM 3540C

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

11/06/1998  
Sample No. : 496970  
NET Job No.: 98.13082

Sample Description: S-14  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/07/1998  
Time Taken: 15:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	10/23/1998	0.025	keh	750 1807	SW 8310
Acenaphthylene	<3.0	mg/kg dw	10/23/1998	0.025	keh	750 1807	SW 8310
Anthracene	<5.9	mg/kg dw	10/23/1998	0.049	keh	750 1807	SW 8310
Benzo(a)anthracene	<4.3	mg/kg dw	10/23/1998	0.0032	keh	750 1807	SW 8310
Benzo(b)fluoranthene	<0.53	mg/kg dw	10/23/1998	0.0044	keh	750 1807	SW 8310
Benzo(k)fluoranthene	<0.50	mg/kg dw	10/23/1998	0.0042	keh	750 1807	SW 8310
Benzo(a)pyrene	<0.68	mg/kg dw	10/23/1998	0.0057	keh	750 1807	SW 8310
Benzo(ghi)perylene	<5.9	mg/kg dw	10/23/1998	0.049	keh	750 1807	SW 8310
Chrysene	<5	mg/kg dw	10/23/1998	0.04	keh	750 1807	SW 8310
Dibenzo(a,h)anthracene	<0.9	mg/kg dw	10/23/1998	0.007	keh	750 1807	SW 8310
Fluoranthene	<3.0	mg/kg dw	10/23/1998	0.025	keh	750 1807	SW 8310
Fluorene	<3.0	mg/kg dw	10/23/1998	0.025	keh	750 1807	SW 8310
Indeno(1,2,3-cd)pyrene	<1.2	mg/kg dw	10/23/1998	0.011	keh	750 1807	SW 8310
Naphthalene	<3.7	mg/kg dw	10/23/1998	0.031	keh	750 1807	SW 8310
Phenanthrene	<5.9	mg/kg dw	10/23/1998	0.049	keh	750 1807	SW 8310
Pyrene	<3.0	mg/kg dw	10/23/1998	0.025	keh	750 1807	SW 8310
Surr: p-Terphenyl	Diluted out		10/23/1998	43-125	keh	750 1807	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/15/1998	COMPLETE	wna	368	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.49	mg/kg dw	10/20/1998	0.049	jrs	368 40	SW 8082
PCB-1221	<0.49	mg/kg dw	10/20/1998	0.049	jrs	368 40	SW 8082
PCB-1232	<0.49	mg/kg dw	10/20/1998	0.049	jrs	368 40	SW 8082
PCB-1242	<0.49	mg/kg dw	10/20/1998	0.049	jrs	368 40	SW 8082
PCB-1248	<0.49	mg/kg dw	10/20/1998	0.049	jrs	368 40	SW 8082
PCB-1254	<0.49	mg/kg dw	10/20/1998	0.049	jrs	368 40	SW 8082

ELV : Elevated reporting limits due to matrix interference.

! : Analyte conc. < reporting limit (RL) or the limit of quantitation (LOQ)

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PCB-1260	0.17	mg/kg dw	10/20/1998	0.049	jrs	368 40	SW 8082
Decachlorobiphenyl (Surf)	113.0	%	10/20/1998	NA	jrs	368 40	SW 8082
2,4,5,6-TCMX (Surf)	90.0	%	10/20/1998	NA	jrs	368 40	SW 8082

Sample Description: S-14 Comed-Joliet #29; 1801-023-410  
 Date Taken: 10/07/1998  
 Time Taken: 15:30  
 EPA Cert. No. 100221  
 Date Received: 10/08/1998  
 Time Received: 17:00  
 WDNR Cert. No. 999447130

Mr. Wei-Lin Feng  
 ENSR  
 740 Pasquinelli Drive  
 Westmont, IL 60559  
 NET Job No.: 98.13082  
 Sample No.: 496970  
 11/06/1998

ANALYTICAL REPORT

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## ANALYTICAL REPORT

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

11/06/1998

Sample No. : 496971

NET Job No.: 98.13082

Sample Description: B-13 (0-3)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 10:58  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	8.67	units	10/14/1998	0.10	nwg	170	SW 9045B
Solids, Total	93.4	%	10/29/1998	0.1	efw	2502	SM 2540
Arsenic, GFAA	3.1	mg/kg dw	10/25/1998	0.54	mhp	223 661	SW 7060
Barium, ICP	321	mg/kg dw	10/28/1998	1.1	kdw	1146 2159	SW 6010B
Cadmium, ICP	<0.54	mg/kg dw	10/20/1998	0.54	kdw	1146 2130	SW 6010B
Chromium, ICP	4.5	mg/kg dw	10/20/1998	2.1	kdw	1146 2116	SW 6010B
Lead, ICP	9.4	mg/kg dw	10/20/1998	4.3	kdw	1146 2352	SW 6010B
Mercury, CVAAs	<0.043	mg/kg dw	10/23/1998	0.043	sep	660 764	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	10/26/1998	0.27	mhp	223 548	SW 7740
Silver, AA	<2.1	mg/kg dw	10/22/1998	2.1	sep	481 565	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Toluene-d8 (Surr)	102.0	%	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	105.6	%	10/20/1998	70-130	jap	43	SW 8260A
Prep, 8310 PNAAs NON-AQUEOUS	extracted		10/14/1998		mmv	750	SW 3540C
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
		ELV					
Acenaphthene	<2.1	mg/kg dw	10/23/1998	0.021	keh	750 1807	SW 8310
Acenaphthylene	<2.1	mg/kg dw	10/23/1998	0.021	keh	750 1807	SW 8310
Anthracene	<27	mg/kg dw	10/23/1998	0.043	keh	750 1807	SW 8310
Benzo(a)anthracene	<7.1	mg/kg dw	10/23/1998	0.0028	keh	750 1807	SW 8310
Benzo(b)fluoranthene	<3.3	mg/kg dw	10/23/1998	0.0039	keh	750 1807	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  
 Sample No.: 496971  
 NET Job No.: 98.13082

Sample Description: B-13 (0-3) COMED-Joliet #29; 1801-023-410  
 Date Taken: 10/08/1998  
 Time Taken: 10:58  
 EPA Cert. No. 100221  
 Date Received: 10/08/1998  
 Time Received: 17:00  
 WDNR Cert. No. 999447130

Parameter Results Units Date of Analysis Method Analyst Batch No. Analytical

Benzo(k)fluoranthene	<3.6	mg/kg dw	10/23/1998	0.0036	keh	750	1807	SW 8310
Benzo(a)pyrene	<1.6	mg/kg dw	10/23/1998	0.0049	keh	750	1807	SW 8310
Benzo(ghi)perylene	<4.3	mg/kg dw	10/23/1998	0.043	keh	750	1807	SW 8310
Chrysene	<3	mg/kg dw	10/23/1998	0.03	keh	750	1807	SW 8310
Dibenz(a,h)anthracene	<0.6	mg/kg dw	10/23/1998	0.006	keh	750	1807	SW 8310
Fluoranthene	<7.3	mg/kg dw	10/23/1998	0.021	keh	750	1807	SW 8310
Fluorene	3.1	mg/kg dw	10/23/1998	0.021	keh	750	1807	SW 8310
Indeno(1,2,3-cd)pyrene	<3.2	mg/kg dw	10/23/1998	0.0092	keh	750	1807	SW 8310
Naphthalene	5.8	mg/kg dw	10/23/1998	0.027	keh	750	1807	SW 8310
Phenanthrene	<4.3	mg/kg dw	10/23/1998	0.043	keh	750	1807	SW 8310
Pyrene	<3.6	mg/kg dw	10/23/1998	0.021	keh	750	1807	SW 8310
Surr: p-Terphenyl	Diluted out		10/23/1998	43-125	keh	750	1807	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE WNA		368		SW 3540C
PCB-1016	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368	40	SW 8082
PCB-1221	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368	40	SW 8082
PCB-1232	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368	40	SW 8082
PCB-1242	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368	40	SW 8082
PCB-1248	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368	40	SW 8082
PCB-1254	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368	40	SW 8082
PCB-1260	<0.043	mg/kg dw	10/20/1998	0.043	jrs	368	40	SW 8082
Decachlorobiphenyl (Surr)	96.0	%	10/20/1998	NA	jrs	368	40	SW 8082
2,4,5,6-TCMX (Surr)	76.0	%	10/20/1998	NA	jrs	368	40	SW 8082



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**ANALYTICAL REPORT**

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

11/06/1998  
Sample No. : 496972  
NET Job No.: 98.13082

Sample Description: B-1 (0-3)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 12:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	8.56	units	10/14/1998	0.10	nwg	170	SW 9045B
Solids, Total	91.0	%	10/29/1998	0.1	efw	2502	SM 2540
Arsenic, GFAA	8.8	mg/kg dw	10/25/1998	0.55	mhp	223 661	SW 7060
Barium, ICP	242	mg/kg dw	10/28/1998	1.1	kdw	1146 2159	SW 6010B
Cadmium, ICP	8.0	mg/kg dw	10/20/1998	0.55	kdw	1146 2130	SW 6010B
Chromium, ICP	89	mg/kg dw	10/20/1998	2.2	kdw	1146 2116	SW 6010B
Lead, ICP	100	mg/kg dw	10/20/1998	4.4	kdw	1146 2352	SW 6010B
Mercury, CVAAs	0.68	mg/kg dw	10/23/1998	0.044	sep	660 764	SW 7471A
Selenium, GFAA	0.31	mg/kg dw	10/26/1998	0.27	mhp	223 548	SW 7740
Silver, AA	2.6	mg/kg dw	10/22/1998	2.2	sep	481 565	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/19/1998	0.005	jap	40	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/19/1998	0.005	jap	40	SW 8260A
Toluene	<0.005	mg/kg dw	10/19/1998	0.005	jap	40	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/19/1998	0.005	jap	40	SW 8260A
Toluene-d8 (Surr)	106.0	%	10/19/1998	74-129	jap	40	SW 8260A
4-Bromofluoromethane (Surr)	104.0	%	10/19/1998	70-130	jap	40	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/14/1998		mmv	750	SW 3540C
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
		ELV					
Acenaphthene	<0.1	mg/kg dw	10/23/1998	0.022	keh	750 1808	SW 8310
Acenaphthylene	<0.1	mg/kg dw	10/23/1998	0.022	keh	750 1808	SW 8310
Anthracene	<0.2	mg/kg dw	10/23/1998	0.044	keh	750 1808	SW 8310
Benzo(a)anthracene	0.48	mg/kg dw	10/23/1998	0.0029	keh	750 1808	SW 8310
Benzo(b)fluoranthene	0.45	mg/kg dw	10/23/1998	0.0040	keh	750 1808	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
 ENSR  
 740 Pasquini Drive  
 Westmont, IL 60559  
 Sample No. : 496972  
 NET Job No. : 98.13082  
 Date Taken: 10/08/1998  
 Time Taken: 12:30  
 Date Received: 10/08/1998  
 Time Received: 17:00  
 WDNR Cert. No. 999447130  
 Sample Description: B-1 (0-3)  
 ComEd-Joliet #29; 1801-023-410

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run Method
Benzo(k)fluoranthene	0.29	mg/kg dw	10/23/1998	keh		1808	SW 8310
Benzo(a)pyrene	0.55	mg/kg dw	10/23/1998	keh		1808	SW 8310
Benzo(ghi)perylene	0.66	mg/kg dw	10/23/1998	keh		1808	SW 8310
Chrysene	0.64	mg/kg dw	10/23/1998	keh		1808	SW 8310
Dibenz(a,h)anthracene	0.086	mg/kg dw	10/23/1998	keh		1808	SW 8310
Fluoranthene	0.55	mg/kg dw	10/23/1998	keh		1808	SW 8310
Fluorene	<0.1	mg/kg dw	10/23/1998	keh		1808	SW 8310
Indeno(1,2,3-cd)pyrene	0.65	mg/kg dw	10/23/1998	keh		1808	SW 8310
Naphthalene	<0.1	mg/kg dw	10/23/1998	keh		1808	SW 8310
Phenanthrene	0.23	mg/kg dw	10/23/1998	keh		1808	SW 8310
Pyrene	0.51	mg/kg dw	10/23/1998	keh		1808	SW 8310
Surf: p-Terphenyl	Masked		10/23/1998	keh		1808	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE	wms	368	SW 3540C
PCB-1016	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SW 8082
PCB-1221	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SW 8082
PCB-1232	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SW 8082
PCB-1242	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SW 8082
PCB-1248	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SW 8082
PCB-1254	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SW 8082
PCB-1260	0.15	mg/kg dw	10/20/1998	0.044	jrs	368	SW 8082
Decachlorobiphenyl (Surf)	122.0	%	10/20/1998	NA	jrs	368	SW 8082
2,4,5,6-TCMX (Surf)	96.0	%	10/20/1998	NA	jrs	368	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-lin Feng  
ENSR  
740 Pasquinelli Drive  
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11/06/1998  
Sample No. : 496973  
NET Job No.: 98.13082

Sample Description: B-4 (0-4)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 12:50  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	7.85	units	10/14/1998	0.10	nwg	170	SW 9045B
Solids, Total	90.8	%	10/29/1998	0.1	efw	2502	SM 2540
Arsenic, GFAA	8.0	mg/kg dw	10/25/1998	0.55	mhp	223 661	SW 7060
Barium, ICP	132	mg/kg dw	10/28/1998	1.1	kdw	1146 2159	SW 6010B
Cadmium, ICP	1.4	mg/kg dw	10/20/1998	0.55	kdw	1146 2130	SW 6010B
Chromium, ICP	19	mg/kg dw	10/20/1998	2.2	kdw	1146 2116	SW 6010B
Lead, ICP	32	mg/kg dw	10/20/1998	4.4	kdw	1146 2352	SW 6010B
Mercury, CVAAs	0.068	mg/kg dw	10/23/1998	0.044	sep	660 764	SW 7471A
Selenium, GFAA	0.36	mg/kg dw	10/26/1998	0.28	mhp	223 548	SW 7740
Silver, AA	<2.2	mg/kg dw	10/22/1998	2.2	sep	481 565	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/19/1998	0.006	jap	40	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/19/1998	0.006	jap	40	SW 8260A
Toluene	<0.006	mg/kg dw	10/19/1998	0.006	jap	40	SW 8260A
Xylenes, Total	0.010	mg/kg dw	10/19/1998	0.006	jap	40	SW 8260A
Toluene-d8 (Surr)	98.0	%	10/19/1998	74-129	jap	40	SW 8260A
4-Bromofluoromethane (Surr)	102.0	%	10/19/1998	70-130	jap	40	SW 8260A
Prep, 8310 PNAAs NON-AQUEOUS	extracted		10/14/1998		mmv	750	SW 3540C
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
		ELV					
Acenaphthene	<2.2	mg/kg dw	10/22/1998	0.022	keh	750 1807	SW 8310
Acenaphthylene	<2.2	mg/kg dw	10/22/1998	0.022	keh	750 1807	SW 8310
Anthracene	<4.4	mg/kg dw	10/22/1998	0.044	keh	750 1807	SW 8310
Benzo(a)anthracene	<0.99	mg/kg dw	10/22/1998	0.0029	keh	750 1807	SW 8310
Benzo(b)fluoranthene	0.50	mg/kg dw	10/22/1998	0.0040	keh	750 1807	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 Pasquinielli Drive  
 Westmont, IL 60559

Sample No. : 496973  
 NET Job No. : 98.13082

Sample Description: B-4 (0-4)  
 Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
 Time Taken: 12:50  
 IRPA Cert. No. 100221

Date Received: 10/08/1998  
 Time Received: 17:00  
 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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Benzo(k)fluoranthene	<0.37	mg/kg dw	10/22/1998	0.0037	keh	750	SM 8310
Benzo(a)pyrene	0.73	mg/kg dw	10/22/1998	0.0051	keh	750	SM 8310
Benzo(ghi)perylene	<4.4	mg/kg dw	10/22/1998	0.044	keh	750	SM 8310
Chrysene	<3	mg/kg dw	10/22/1998	0.03	keh	750	SM 8310
Dibenz(a,h)anthracene	<0.7	mg/kg dw	10/22/1998	0.007	keh	750	SM 8310
Fluoranthene	<2.2	mg/kg dw	10/22/1998	0.022	keh	750	SM 8310
Fluorene	<2.2	mg/kg dw	10/22/1998	0.022	keh	750	SM 8310
Indeno(1,2,3-cd)pyrene	<0.95	mg/kg dw	10/22/1998	0.0095	keh	750	SM 8310
Naphthalene	<2.8	mg/kg dw	10/22/1998	0.028	keh	750	SM 8310
Phenanthrene	<4.4	mg/kg dw	10/22/1998	0.044	keh	750	SM 8310
Pyrene	<2.2	mg/kg dw	10/22/1998	0.022	keh	750	SM 8310
Surf: p-Terphenyl	Diluted out		10/22/1998	43-125	keh	750	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE wa		368	SM 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SM 8082
PCB-1221	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SM 8082
PCB-1232	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SM 8082
PCB-1242	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SM 8082
PCB-1248	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SM 8082
PCB-1254	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SM 8082
PCB-1260	<0.044	mg/kg dw	10/20/1998	0.044	jrs	368	SM 8082
Decachlorobiphenyl (Surf)	102.0	%	10/20/1998	NA	jrs	368	SM 8082
2,4,5,6-TCMX (Surf)	97.0	%	10/20/1998	NA	jrs	368	SM 8082





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**ANALYTICAL REPORT**

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

11/06/1998  
Sample No. : 496974  
NET Job No.: 98.13082

Sample Description: S-23  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 13:10  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	9.04	units	10/14/1998	0.10	nwg	170	SW 9045B
Solids, Total	52.0	%	11/02/1998	0.1	nwg	2518	SM 2540
Arsenic, GFAA	4.2	mg/kg dw	10/25/1998	0.96	mhp	223 661	SW 7060
Barium, ICP	110	mg/kg dw	10/28/1998	1.9	kdw	1146 2159	SW 6010B
Cadmium, ICP	2.3	mg/kg dw	10/20/1998	0.96	kdw	1146 2130	SW 6010B
Chromium, ICP	6.3	mg/kg dw	10/20/1998	3.8	kdw	1146 2116	SW 6010B
Lead, ICP	16	mg/kg dw	10/20/1998	7.7	kdw	1146 2352	SW 6010B
Mercury, CVAAs	<0.077	mg/kg dw	10/23/1998	0.077	sep	660 764	SW 7471A
Selenium, GFAA	<0.48	mg/kg dw	10/26/1998	0.48	mhp	223 548	SW 7740
Silver, AA	<3.8	mg/kg dw	10/22/1998	3.8	sep	481 565	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/19/1998		mmv	239	SW 8015M
TPH as Gas	<96	mg/kg dw	11/05/1998	96	btl	239 486	SW 8015M
TPH as Diesel	<96	mg/kg dw	11/05/1998	96	btl	239 486	SW 8015M
TPH as Oil	<96	mg/kg dw	11/05/1998	96	btl	239 486	SW 8015M
N-octacosane (TPH surr)	101.0	%	11/05/1998		btl	239 486	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/20/1998	0.01	jap	43	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/20/1998	0.01	jap	43	SW 8260A
Toluene	<0.01	mg/kg dw	10/20/1998	0.01	jap	43	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/20/1998	0.01	jap	43	SW 8260A
Toluene-d8 (Surr)	117.8	%	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	117.2	%	10/20/1998	70-130	jap	43	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/14/1998		mmv	750	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng

ENSR  
740 Pasquini Drive  
Westmont, IL 60559

Sample No.: 496974  
NET Job No.: 98.13082

Sample Description: S-23  
Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 13:10  
Date Received: 10/08/1998  
Time Received: 17:00  
EPA Cert. No. 100221  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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Acenaphthene	<0.038	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Acenaphthylene	<0.038	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Anthracene	<0.077	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Benzo(a)anthracene	<0.023	MX	10/23/1998	keh	750	1808	SM 8310
Benzo(b)fluoranthene	<0.0069	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Benzo(k)fluoranthene	0.0067	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Benzo(a)pyrene	<0.0088	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Benzo(ghi)perylene	<0.077	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Chrysene	<0.06	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Dibenz(a,h)anthracene	<0.01	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Fluoranthene	<0.038	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Fluorene	<0.038	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Indeno(1,2,3-cd)pyrene	<0.017	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Naphthalene	<0.048	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Phenanthrene	<0.077	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Pyrene	<0.038	mg/kg dw	10/23/1998	keh	750	1808	SM 8310
Surf: p-Terphenyl	68.6	%	10/23/1998	keh	750	1808	SM 8310
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE wna	368		SW 3540C
PCB-1016	<0.077	mg/kg dw	10/20/1998	jrj	368	41	SM 8082
PCB-1221	<0.077	mg/kg dw	10/20/1998	jrj	368	41	SM 8082
PCB-1232	<0.077	mg/kg dw	10/20/1998	jrj	368	41	SM 8082
PCB-1242	<0.077	mg/kg dw	10/20/1998	jrj	368	41	SM 8082
PCB-1248	<0.077	mg/kg dw	10/20/1998	jrj	368	41	SM 8082
PCB-1254	<0.077	mg/kg dw	10/20/1998	jrj	368	41	SM 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

11/06/1998  
Sample No. : 496974  
NET Job No.: 98.13082

Sample Description: S-23  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 13:10  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
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	<0.077	mg/kg dw	10/20/1998	0.077	jrs	368 41	SW 8082
Decachlorobiphenyl (Surr)	99.0	%	10/20/1998	NA	jrs	368 41	SW 8082
2,4,5,6-TCMX (Surr)	94.0	%	10/20/1998	NA	jrs	368 41	SW 8082



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**ANALYTICAL REPORT**

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

NET Job No.: 98.13082  
Sample No.: 496975

Sample Description: B-3 (0-4) Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 13:25  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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PH, Non-Aqueous Solids, Total	88.6	%	11/02/1998	nmg		2518	SM 2540
Arsenic, GFAA	11	mg/kg dm	10/25/1998	mhp		223	SM 7060
Barium, ICP	169	mg/kg dm	10/28/1998	jtt		1151	SM 60108
Cadmium, ICP	1.7	mg/kg dm	10/24/1998	kdm		1151	SM 60108
Chromium, ICP	43	mg/kg dm	10/24/1998	kdm		1151	SM 60108
Lead, ICP	34	mg/kg dm	10/24/1998	kdm		1151	SM 60108
Mercury, CVAA	<0.045	mg/kg dm	10/23/1998	sep		660	SM 7471A
Selenium, GFAA	0.40	mg/kg dm	10/26/1998	mhp		223	SM 7740
Silver, AA	<2.3	mg/kg dm	10/22/1998	sep		481	SM 7760

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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Benzene	<0.006	mg/kg dm	10/20/1998	jap		43	SM 8260A
Ethylbenzene	<0.006	mg/kg dm	10/20/1998	jap		43	SM 8260A
Toluene	<0.006	mg/kg dm	10/20/1998	jap		43	SM 8260A
Xylenes, Total	<0.006	mg/kg dm	10/20/1998	jap		43	SM 8260A
Toluene-d8 (Surf)	109.8	%	10/20/1998	jap		43	SM 8260A
4-Bromofluoromethane (Surf)	114.2	%	10/20/1998	jap		43	SM 8260A

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

11/06/1998

Sample No. : 496975

NET Job No.: 98.13082

Sample Description: B-3 (0-4)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 13:25  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.034	MX	10/23/1998	0.0038	keh	750 1808	SW 8310
Benzo(a)pyrene	<0.0052		10/23/1998	0.0052	keh	750 1808	SW 8310
Benzo(ghi)perylene	<0.045		10/23/1998	0.045	keh	750 1808	SW 8310
Chrysene	<0.03		10/24/1998	0.03	keh	750 1809	SW 8310
Dibenzo(a,h)anthracene	<0.007		10/23/1998	0.007	keh	750 1808	SW 8310
Fluoranthene	<0.11	MX	10/23/1998	0.023	keh	750 1808	SW 8310
Fluorene	<0.060	MX	10/23/1998	0.023	keh	750 1808	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0097		10/23/1998	0.0097	keh	750 1808	SW 8310
Naphthalene	0.29		10/23/1998	0.028	keh	750 1808	SW 8310
Phenanthrene	0.18		10/23/1998	0.045	keh	750 1808	SW 8310
Pyrene	<0.19	MX	10/23/1998	0.023	keh	750 1808	SW 8310
Surr: p-Terphenyl	Masked		10/23/1998	43-125	keh	750 1808	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/22/1998	0.045	tls	371 42	SW 8082
PCB-1221	<0.045	mg/kg dw	10/22/1998	0.045	tls	371 42	SW 8082
PCB-1232	<0.045	mg/kg dw	10/22/1998	0.045	tls	371 42	SW 8082
PCB-1242	<0.045	mg/kg dw	10/22/1998	0.045	tls	371 42	SW 8082
PCB-1248	<0.045	mg/kg dw	10/22/1998	0.045	tls	371 42	SW 8082
PCB-1254	<0.045	mg/kg dw	10/22/1998	0.045	tls	371 42	SW 8082
PCB-1260	<0.045	mg/kg dw	10/22/1998	0.045	tls	371 42	SW 8082
Decachlorobiphenyl (Surr)	102.0	%	10/22/1998	NA	tls	371 42	SW 8082
2,4,5,6-TCMX (Surr)	79.0	%	10/22/1998	NA	tls	371 42	SW 8082

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



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-jin Feng

ENSR

740 Pasquini Drive

Westmont, IL 60559

NET Job No.: 98.13082

Sample No.: 496976

11/06/1998

Sample Description: B-5-S  
 COMED-Joliet #29; 1801-023-410

Date Taken: 10/08/1998

Time Taken: 13:53

IEPA Cert. No. 100221

Date Received: 10/08/1998  
 Time Received: 17:00  
 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
PH, Non-Aqueous	9.81	units	10/14/1998	nmg		171	SW 90458
Solids, Total	85.8	%	11/02/1998	nmg		2518	SM 2540
Arsenic, GFAA	4.4	mg/kg dm	10/25/1998	0.58	mhp	223 661	SW 7060
Barium, ICP	1,520	mg/kg dm	10/28/1998	1.2	jt	1151 2160	SW 60108
Cadmium, ICP	2.0	mg/kg dm	10/24/1998	0.58	kdm	1151 2139	SW 60108
Chromium, ICP	117	mg/kg dm	10/24/1998	2.3	kdm	1151 2125	SW 60108
Lead, ICP	100	mg/kg dm	10/24/1998	4.7	kdm	1151 2361	SW 60108
Mercury, CVA	0.056	mg/kg dm	10/23/1998	0.047	sep	660 764	SW 7471A
Selenium, GFAA	0.33	mg/kg dm	10/26/1998	0.29	mhp	223 548	SW 7740
Silver, AA	<2.3	mg/kg dm	10/22/1998	2.3	sep	481 565	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dm	10/20/1998	0.006	jap	43	SW 8260A
Ethylbenzene	<0.006	mg/kg dm	10/20/1998	0.006	jap	43	SW 8260A
Toluene	<0.006	mg/kg dm	10/20/1998	0.006	jap	43	SW 8260A
Xylenes, Total	<0.006	mg/kg dm	10/20/1998	0.006	jap	43	SW 8260A
Toluene-d8 (Surf)	109.8	%	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surf)	107.2	%	10/20/1998	70-130	jap	43	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/14/1998	nmv		750	SW 3540C
PNACMPDS - 8310 NONAQUEOUS							
Acenaphthene	<2.3	mg/kg dm	10/23/1998	0.023	keh	750	SW 1808
Acenaphthylene	<2.3	mg/kg dm	10/23/1998	0.023	keh	750	SW 1808
Anthracene	<4.7	mg/kg dm	10/23/1998	0.047	keh	750	SW 1808
Benzo(a)anthracene	<10	mg/kg dm	10/23/1998	0.0030	keh	750	SW 1808
Benzo(b)fluoranthene	7.0	mg/kg dm	10/23/1998	0.0042	keh	750	SW 1808

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

11/06/1998  
Sample No. : 496976  
NET Job No.: 98.13082

Sample Description: B-5-S  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 13:53  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	3.8	mg/kg dw	10/23/1998	0.0040	keh	750 1808	SW 8310
Benzo(a)pyrene	6.8	mg/kg dw	10/23/1998	0.0054	keh	750 1808	SW 8310
Benzo(ghi)perylene	5.8	mg/kg dw	10/23/1998	0.047	keh	750 1808	SW 8310
Chrysene	6.3	mg/kg dw	10/23/1998	0.03	keh	750 1808	SW 8310
Dibenzo(a,h)anthracene	0.90	mg/kg dw	10/23/1998	0.007	keh	750 1808	SW 8310
Fluoranthene	16	mg/kg dw	10/23/1998	0.023	keh	750 1808	SW 8310
Fluorene	<2.3	mg/kg dw	10/23/1998	0.023	keh	750 1808	SW 8310
Indeno(1,2,3-cd)pyrene	5.1	mg/kg dw	10/23/1998	0.010	keh	750 1808	SW 8310
Naphthalene	<2.9	mg/kg dw	10/23/1998	0.029	keh	750 1808	SW 8310
Phenanthrene	7.3	mg/kg dw	10/23/1998	0.047	keh	750 1808	SW 8310
Pyrene	13	mg/kg dw	10/23/1998	0.023	keh	750 1808	SW 8310
Surr: p-Terphenyl	Diluted out		10/23/1998	43-125	keh	750 1808	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.047	mg/kg dw	10/27/1998	0.047	tls	371 45	SW 8082
PCB-1221	<0.047	mg/kg dw	10/27/1998	0.047	tls	371 45	SW 8082
PCB-1232	<0.047	mg/kg dw	10/27/1998	0.047	tls	371 45	SW 8082
PCB-1242	<0.047	mg/kg dw	10/27/1998	0.047	tls	371 45	SW 8082
PCB-1248	<0.047	mg/kg dw	10/27/1998	0.047	tls	371 45	SW 8082
PCB-1254	0.16	mg/kg dw	10/27/1998	0.047	tls	371 45	SW 8082
PCB-1260	<0.047	mg/kg dw	10/27/1998	0.047	tls	371 45	SW 8082
Decachlorobiphenyl (Surr)	104.0	%	10/27/1998	NA	tls	371 45	SW 8082
2,4,5,6-TCMX (Surr)	79.0	%	10/27/1998	NA	tls	371 45	SW 8082



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**ANALYTICAL REPORT**

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

Sample No. : 496977  
NET Job No. : 98.13082

Sample Description: B-6 (0-2) Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 14:05  
EPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter Results Units Date of Analysis Method Analyst Batch No. Analytical

ph, Non-Aqueous	9.57	units	10/14/1998	0.10	nmg	171	SM 2540
Solids, Total	91.1	%	11/02/1998	0.1	nmg	2518	SM 2540
Arsenic, GFAA	7.1	mg/kg dm	10/26/1998	0.55	mhp	223	661 SM 7060
Barium, ICP	209	mg/kg dm	10/28/1998	1.1	jtc	1151	2160 SM 60108
Cadmium, ICP	2.7	mg/kg dm	10/24/1998	0.55	kdm	1151	2139 SM 60108
Chromium, ICP	38	mg/kg dm	10/24/1998	2.2	kdm	1151	2125 SM 60108
Lead, ICP	54	mg/kg dm	10/24/1998	4.4	kdm	1151	2361 SM 60108
Mercury, CVA	0.13	mg/kg dm	10/23/1998	0.044	sep	660	764 SM 7471A
Selenium, GFAA	0.49	mg/kg dm	10/26/1998	0.27	mhp	223	548 SM 7740
Silver, AA	<2.2	mg/kg dm	10/22/1998	2.2	sep	481	565 SM 7760

UST VOLATILES NON-AQUEOUS	<0.005	mg/kg dm	10/20/1998	0.005	jap	43	SM 8260A
Benzene	<0.005	mg/kg dm	10/20/1998	0.005	jap	43	SM 8260A
Ethylbenzene	<0.005	mg/kg dm	10/20/1998	0.005	jap	43	SM 8260A
Toluene	<0.005	mg/kg dm	10/20/1998	0.005	jap	43	SM 8260A
Xylenes, Total	<0.005	mg/kg dm	10/20/1998	0.005	jap	43	SM 8260A
Toluene-d8 (Surr)	95.2	%	10/20/1998	74-129	jap	43	SM 8260A
4-Bromofluoromethane (Surr)	99.4	%	10/20/1998	70-130	jap	43	SM 8260A
Prep, B310 PNAS NON-AQUEOUS	extracted		10/14/1998		mmv	750	SM 3540C

PNA CMPDS - B310 NONAQUEOUS	<2.0	mg/kg dm	10/24/1998	0.022	keh	750	1808 SM 8310
Acenaphthene	<2.0	mg/kg dm	10/24/1998	0.022	keh	750	1808 SM 8310
Acenaphthylene	<2.0	mg/kg dm	10/24/1998	0.022	keh	750	1808 SM 8310
Anthracene	<4.0	mg/kg dm	10/24/1998	0.044	keh	750	1808 SM 8310
Benzo(a)anthracene	<9.0	mg/kg dm	10/24/1998	0.0029	keh	750	1808 SM 8310
Benzo(b)fluoranthene	6.4	mg/kg dm	10/24/1998	0.0040	keh	750	1808 SM 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

11/06/1998  
Sample No. : 496977  
NET Job No.: 98.13082

Sample Description: B-6 (0-2)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 14:05  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	4.0	mg/kg dw	10/24/1998	0.0037	keh	750 1808	SW 8310
Benzo(a)pyrene	6.8	mg/kg dw	10/24/1998	0.0050	keh	750 1808	SW 8310
Benzo(ghi)perylene	5.8	mg/kg dw	10/24/1998	0.044	keh	750 1808	SW 8310
Chrysene	7.2	mg/kg dw	10/24/1998	0.03	keh	750 1808	SW 8310
Dibenzo(a,h)anthracene	0.80	mg/kg dw	10/24/1998	0.007	keh	750 1808	SW 8310
Fluoranthene	13	mg/kg dw	10/24/1998	0.022	keh	750 1808	SW 8310
Fluorene	<2.0	mg/kg dw	10/24/1998	0.022	keh	750 1808	SW 8310
Indeno(1,2,3-cd)pyrene	5.3	mg/kg dw	10/24/1998	0.0094	keh	750 1808	SW 8310
Naphthalene	<2.4	mg/kg dw	10/24/1998	0.027	keh	750 1808	SW 8310
Phenanthrene	5.0	mg/kg dw	10/24/1998	0.044	keh	750 1808	SW 8310
Pyrene	11	mg/kg dw	10/24/1998	0.022	keh	750 1808	SW 8310
Surr: p-Terphenyl	Diluted out		10/24/1998	43-125	keh	750 1808	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	10/28/1998	0.044	tls	371 45	SW 8082
PCB-1221	<0.044	mg/kg dw	10/28/1998	0.044	tls	371 45	SW 8082
PCB-1232	<0.044	mg/kg dw	10/28/1998	0.044	tls	371 45	SW 8082
PCB-1242	0.14	mg/kg dw	10/28/1998	0.044	tls	371 45	SW 8082
PCB-1248	<0.044	mg/kg dw	10/28/1998	0.044	tls	371 45	SW 8082
PCB-1254	0.22	mg/kg dw	10/28/1998	0.044	tls	371 45	SW 8082
PCB-1260	<0.044	mg/kg dw	10/28/1998	0.044	tls	371 45	SW 8082
Decachlorobiphenyl (Surr)	103.0	%	10/28/1998	NA	tls	371 45	SW 8082
2,4,5,6-TCMX (Surr)	78.0	%	10/28/1998	NA	tls	371 45	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng

ENSR  
740 Pasquini Drive  
Westmont, IL 60559

NET Job No.: 98.13082

Sample No.: 496978

11/06/1998

Sample Description: B-8 (0-3)

Comed-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 14:25

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
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PH, Non-Aqueous	8.37	units	10/14/1998	nmg		171	SW 90458
Solids, Total	88.7	%	11/02/1998	nmg		2518	SW 2540
Arsenic, GFAA	2.9	mg/kg dm	10/26/1998	mhp		224	SW 7060
Barium, ICP	237	mg/kg dm	10/30/1998	jtt		1150	SW 60108
Cadmium, ICP	3.9	mg/kg dm	10/30/1998	jtt		1150	SW 60108
Chromium, ICP	7.4	mg/kg dm	10/30/1998	jtt		1150	SW 60108
Lead, ICP	12	mg/kg dm	10/30/1998	jtt		1150	SW 60108
Mercury, CVA	0.16	mg/kg dm	10/23/1998	sep		660	SW 7471A
Selenium, GFAA	<0.28	mg/kg dm	10/27/1998	mhp		224	SW 7740
Silver, AA	<2.3	mg/kg dm	10/26/1998	sep		482	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dm	10/20/1998	jap		43	SW 8260A
Ethylbenzene	<0.006	mg/kg dm	10/20/1998	jap		43	SW 8260A
Toluene	<0.006	mg/kg dm	10/20/1998	jap		43	SW 8260A
Xylenes, Total	<0.006	mg/kg dm	10/20/1998	jap		43	SW 8260A
Toluene-d8 (Surf)	101.2	%	10/20/1998	jap		74	SW 8260A
4-Bromofluoromethane (Surf)	106.8	%	10/20/1998	jap		70-130	SW 8260A
Prep, 8310 PHAS NON-AQUEOUS							
extracted							
10/14/1998							
mmv							
750							
SW 3540C							
PNA CMPS - 8310 NONAQUEOUS							
ELV	<0.1	mg/kg dm	10/24/1998	keh		750	SW 8310
Acenaphthene	<0.1	mg/kg dm	10/24/1998	keh		750	SW 8310
Acenaphthylene	<0.1	mg/kg dm	10/24/1998	keh		750	SW 8310
Anthracene	<0.2	mg/kg dm	10/24/1998	keh		750	SW 8310
Benzo(a)anthracene	<0.46	mg/kg dm	10/24/1998	keh		750	SW 8310
Benzo(b)fluoranthene	0.14	mg/kg dm	10/24/1998	keh		750	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

11/06/1998  
Sample No. : 496978  
NET Job No.: 98.13082

Sample Description: B-8 (0-3)  
ComEd-Joliet #29; 1801-023-410

Date Taken: 10/08/1998  
Time Taken: 14:25  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.088	mg/kg dw	10/24/1998	0.0038	keh	750 1808	SW 8310
Benzo(a)pyrene	<0.11	mg/kg dw	10/24/1998	0.0052	keh	750 1808	SW 8310
Benzo(ghi)perylene	<0.2	mg/kg dw	10/24/1998	0.045	keh	750 1808	SW 8310
Chrysene	<0.2	mg/kg dw	10/24/1998	0.03	keh	750 1808	SW 8310
Dibenzo(a,h)anthracene	<0.03	mg/kg dw	10/24/1998	0.007	keh	750 1808	SW 8310
Fluoranthene	0.44	mg/kg dw	10/24/1998	0.023	keh	750 1808	SW 8310
Fluorene	<0.1	mg/kg dw	10/24/1998	0.023	keh	750 1808	SW 8310
Indeno(1,2,3-cd)pyrene	0.083	mg/kg dw	10/24/1998	0.0097	keh	750 1808	SW 8310
Naphthalene	<0.1	mg/kg dw	10/24/1998	0.028	keh	750 1808	SW 8310
Phenanthrene	0.32	mg/kg dw	10/24/1998	0.045	keh	750 1808	SW 8310
Pyrene	0.26	mg/kg dw	10/24/1998	0.023	keh	750 1808	SW 8310
Surr: p-Terphenyl	Masked		10/24/1998	43-125	keh	750 1808	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/28/1998	0.045	tls	371 45	SW 8082
PCB-1221	<0.045	mg/kg dw	10/28/1998	0.045	tls	371 45	SW 8082
PCB-1232	<0.045	mg/kg dw	10/28/1998	0.045	tls	371 45	SW 8082
PCB-1242	<0.045	mg/kg dw	10/28/1998	0.045	tls	371 45	SW 8082
PCB-1248	<0.045	mg/kg dw	10/28/1998	0.045	tls	371 45	SW 8082
PCB-1254	<0.045	mg/kg dw	10/28/1998	0.045	tls	371 45	SW 8082
PCB-1260	<0.045	mg/kg dw	10/28/1998	0.045	tls	371 45	SW 8082
Decachlorobiphenyl (Surr)	97.0	%	10/28/1998	NA	tls	371 45	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	10/28/1998	NA	tls	371 45	SW 8082

CCV - Continuing Calibration Verification

Analyte	Run	Batch	True	Conc.	Found	Recovery
	Number	Conc.	Conc.	Percent		
pH, Non-Aqueous	170	7.00	7.03	100.4		
pH, Non-Aqueous	171	7.00	7.01	100.1		
Arsenic, GFAA	661	0.0257	0.0257	102.8		
Barium, ICP	2159	2.00	2.00	100.0		
Barium, ICP	2160	2.00	2.09	104.5		
Barium, ICP	2169	2.00	2.05	102.5		
Cadmium, ICP	2130	1.00	0.995	99.5		
Cadmium, ICP	2139	1.00	1.01	101.0		
Cadmium, ICP	2154	1.00	1.05	105.0		
Chromium, ICP	2116	2.00	1.96	98.0		
Chromium, ICP	2125	2.00	2.04	102.0		
Chromium, ICP	2139	2.00	2.06	103.0		
Lead, ICP	2352	2.00	1.92	96.0		
Lead, ICP	2361	2.00	2.05	102.5		
Lead, ICP	2376	2.00	1.97	98.5		
Mercury, CVA	764	0.0025	0.00256	102.4		
Selenium, GFAA	548	0.0500	0.0503	100.6		
Selenium, GFAA	550	0.0500	0.0515	103.0		
Silver, AA	564	0.50	0.497	99.4		
Silver, AA	565	0.50	0.489	97.8		
Silver, AA	566	0.50	0.494	98.8		
TPH as Gas	485	2,500	2,524	101.0		
TPH as Diesel	485	2,500	2,794	111.8		
TPH as Oil	485	2,500	2,398	95.9		
N-octacosane (TPH surr)	485	100	108	108.0		
TPH as Gas	485	2,500	2,418	96.7		
TPH as Diesel	485	2,500	2,529	101.2		
TPH as Oil	485	2,500	2,289	91.6		
N-octacosane (TPH surr)	485	100	107	107.0		
TPH MODIFIED 8015	485	2,500	2,639	105.6		
TPH as Gas	485	2,500	2,556	102.2		

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

11/06/1998  
NET Job Number: 98.13082

QUALITY CONTROL REPORT  
CONTINUING CALIBRATION VERIFICATION

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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/06/1998

NET Job Number: 98.13082

Mr. Wei-lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
TPH as Oil	485	2,500	2,429	97.2
N-octacosane (TPH surr)	485	100	107	107.0
TPH MODIFIED 8015				
TPH as Gas	485	2,500	2,699	108.0
TPH as Diesel	485	2,500	2,613	104.5
TPH as Oil	485	2,500	2,531	101.2
N-octacosane (TPH surr)	485	100	110	110.0
TPH MODIFIED 8015				
TPH as Gas	485	2,500	2,726	109.0
TPH as Diesel	485	2,500	2,458	98.3
TPH as Oil	485	2,500	2,528	101.1
N-octacosane (TPH surr)	485	100	107	107.0
TPH MODIFIED 8015				
TPH as Gas	485	2,500	2,474	99.0
TPH as Diesel	485	2,500	2,480	99.2
TPH as Oil	485	2,500	2,331	93.2
N-octacosane (TPH surr)	485	100	107	107.0
TPH MODIFIED 8015				
TPH as Gas	485	2,500	2,514	100.6
TPH as Diesel	485	2,500	2,521	100.8
TPH as Oil	485	2,500	2,339	93.6
N-octacosane (TPH surr)	485	100	108	108.0
TPH MODIFIED 8015				
TPH as Gas	486	2,500	2,567	102.7
TPH as Diesel	486	2,500	2,476	99.0
TPH as Oil	486	2,500	2,357	94.3
N-octacosane (TPH surr)	486	100	106	106.0
TPH MODIFIED 8015				
TPH as Gas	486	2,500	2,683	107.3
TPH as Diesel	486	2,500	2,561	102.4
TPH as Oil	486	2,500	2,392	95.7
N-octacosane (TPH surr)	486	100	108	108.0
UST VOLATILES NON-AQUEOUS				
Benzene	40	50.0	50.0	100.0

CCV - Continuing Calibration Verification

MWG13-15\_23529



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**QUALITY CONTROL REPORT**

**CONTINUING CALIBRATION VERIFICATION**

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

11/06/1998

NET Job Number: 98.13082

Analyte	Run	Batch	True Conc.	Found Conc.	Recovery Percent
Ethylbenzene	40	50.0	54.0	50.0	108.0
Toluene	40	50.0	51.0	50.0	102.0
Xylenes, Total	40	150	156	150	104.0
UST VOLATILES NON-AQUEOUS					
Benzene	42	50.0	52.1	50.0	104.2
Ethylbenzene	42	50.0	54.8	50.0	109.6
Toluene	42	50.0	52.2	50.0	104.4
Xylenes, Total	42	150	156	150	104.0
UST VOLATILES NON-AQUEOUS					
Benzene	43	50.0	54.7	50.0	109.4
Ethylbenzene	43	50.0	56.4	50.0	112.8
Toluene	43	50.0	55.2	50.0	110.4
Xylenes, Total	43	150	162	150	108.0
PMA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	1807	5000	4,928	5000	98.6
Acenaphthylene	1807	5000	5,161	5000	103.2
Anthracene	1807	5000	5,126	5000	102.5
Benz(o,a)anthracene	1807	5000	5,233	5000	104.7
Benz(o,b)fluoranthene	1807	5000	4,879	5000	97.6
Benz(o,k)fluoranthene	1807	5000	4,761	5000	95.2
Benz(o,a)pyrene	1807	5000	4,892	5000	97.8
Benz(o,g,h)perylene	1807	5000	4,779	5000	95.6
Chrysene	1807	5000	5,093	5000	101.9
Dibenzo(a,h)anthracene	1807	5000	4,882	5000	97.6
Fluoranthene	1807	5000	4,863	5000	97.3
Fluorene	1807	5000	4,822	5000	96.4
Indeno(1,2,3-cd)pyrene	1807	5000	4,833	5000	96.7
Naphthalene	1807	5000	5,075	5000	101.5
Phenanthrene	1807	5000	4,930	5000	98.6
Pyrene	1807	5000	5,038	5000	100.8
Surr: p-Terphenyl	1807	5000	5,039	5000	100.8
PMA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	1807	5000	5,042	5000	100.8
Acenaphthylene	1807	5000	5,192	5000	103.8

CCV - Continuing Calibration Verification



NATIONAL  
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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/06/1998

NET Job Number: 98.13082

Mr. Wei-lin Feng

Analyte	Run Batch Number	CCV		Percent Recovery
		True Conc.	Conc. Found	
Anthracene	1807	5000	5,114	102.3
Benzo(a)anthracene	1807	5000	5,215	104.3
Benzo(b)fluoranthene	1807	5000	4,867	97.3
Benzo(k)fluoranthene	1807	5000	4,753	95.1
Benzo(a)pyrene	1807	5000	4,893	97.9
Benzo(ghi)perylene	1807	5000	4,706	94.1
Chrysene	1807	5000	5,133	102.7
Dibenzo(a,h)anthracene	1807	5000	4,924	98.5
Fluoranthene	1807	5000	4,818	96.4
Fluorene	1807	5000	4,827	96.5
Indeno(1,2,3-cd)pyrene	1807	5000	4,714	94.3
Naphthalene	1807	5000	5,011	100.2
Phenanthrene	1807	5000	4,908	98.2
Pyrene	1807	5000	4,943	98.9
Surr: p-Terphenyl	1807	5000	4,902	98.0
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1808	5000	4,675	93.5
Acenaphthylene	1808	5000	4,981	99.6
Anthracene	1808	5000	5,114	102.3
Benzo(a)anthracene	1808	5000	5,059	101.2
Benzo(b)fluoranthene	1808	5000	4,778	95.6
Benzo(k)fluoranthene	1808	5000	4,756	95.1
Benzo(a)pyrene	1808	5000	4,562	91.2
Benzo(ghi)perylene	1808	5000	4,906	98.1
Chrysene	1808	5000	5,024	100.5
Dibenzo(a,h)anthracene	1808	5000	4,914	98.3
Fluoranthene	1808	5000	4,944	98.9
Fluorene	1808	5000	4,881	97.6
Indeno(1,2,3-cd)pyrene	1808	5000	5,072	101.4
Naphthalene	1808	5000	4,769	95.4
Phenanthrene	1808	5000	4,966	99.3
Pyrene	1808	5000	4,867	97.3
Surr: p-Terphenyl	1808	5000	4,820	96.4
PNA CMPDS - 8310 NONAQUEOUS				

CCV - Continuing Calibration Verification

MWG13-15\_23531



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

11/06/1998

NET Job Number: 98.13082

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

Run	Batch	True	Conc.	Found	Recovery
Number	Time	Conc.	Conc.	Conc.	Percent
1808	5000	4,815	5000	4,815	96.3
1808	5000	5,028	5000	5,028	100.6
1808	5000	5,164	5000	5,164	103.3
1808	5000	5,191	5000	5,191	103.8
1808	5000	4,893	5000	4,893	97.9
1808	5000	4,880	5000	4,880	97.6
1808	5000	4,671	5000	4,671	93.4
1808	5000	5,070	5000	5,070	101.4
1808	5000	5,093	5000	5,093	101.9
1808	5000	4,973	5000	4,973	99.5
1808	5000	4,971	5000	4,971	99.4
1808	5000	4,951	5000	4,951	99.0
1808	5000	5,030	5000	5,030	100.6
1808	5000	4,772	5000	4,772	95.4
1808	5000	5,041	5000	5,041	100.8
1808	5000	4,888	5000	4,888	97.8
1808	5000	4,828	5000	4,828	96.6
1808	5000	4,783	5000	4,783	95.7
1808	5000	5,060	5000	5,060	101.2
1808	5000	5,128	5000	5,128	102.6
1808	5000	5,131	5000	5,131	102.6
1808	5000	4,838	5000	4,838	96.8
1808	5000	4,872	5000	4,872	97.4
1808	5000	4,587	5000	4,587	91.7
1808	5000	4,894	5000	4,894	97.9
1808	5000	5,116	5000	5,116	102.3
1808	5000	4,952	5000	4,952	99.0
1808	5000	4,987	5000	4,987	99.7
1808	5000	4,964	5000	4,964	99.3
1808	5000	4,983	5000	4,983	99.7
1808	5000	4,765	5000	4,765	95.3
1808	5000	5,031	5000	5,031	100.6
1808	5000	4,928	5000	4,928	98.6

CCV - Continuing Calibration Verification





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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/06/1998

NET Job Number: 98.13082

Mr. Wei-lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Surr: p-Terphenyl	1808	5000	4,935	98.7
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1809	5000	5,115	102.3
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1809	5000	5,231	104.6
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1809	5000	5,158	103.2
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1809	5000	5,296	105.9
PCB'S NON-AQUEOUS				
PCB-1016	40	500	514	102.8
PCB-1260	40	500	514	102.8
PCB'S NON-AQUEOUS				
PCB-1016	40	500	530	106.0
PCB-1260	40	500	532	106.4
PCB'S NON-AQUEOUS				
PCB-1016	41	500	530	106.0
PCB-1260	41	500	532	106.4
PCB'S NON-AQUEOUS				
PCB-1016	41	500	503	100.6
PCB-1260	41	500	498	99.6
PCB'S NON-AQUEOUS				
PCB-1016	42	500	510	102.0
PCB-1260	42	500	515	103.0
PCB'S NON-AQUEOUS				
PCB-1016	42	500	484	96.8
PCB-1260	42	500	485	97.0
PCB'S NON-AQUEOUS				
PCB-1016	42	500	456	91.2
PCB-1260	42	500	455	91.0
PCB'S NON-AQUEOUS				
PCB-1016	42	500	484	96.8
PCB-1260	42	500	487	97.4
PCB'S NON-AQUEOUS				

CCV - Continuing Calibration Verification

Analyte	Run	Batch	True	Conc.	Found	Recovery
	Number	Conc.	Conc.	Conc.	Percent	
PCB-1016	45	500	478	95.6		
PCB-1260	45	500	476	95.2		
PCB'S NON-AQUEOUS	45	500	505	101.0		
PCB-1016	45	500	500	100.0		

ENSR  
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 Mr. Wei-Lin Feng

11/06/1998  
 NET Job Number: 98.13082

QUALITY CONTROL REPORT  
 CONTINUING CALIBRATION VERIFICATION



NATIONAL ENVIRONMENTAL TESTING, INC.

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/06/1998

NET Job Number: 98.13082

Mr. Wei-lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	221	658	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	223	661	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	224	661	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1146	2150	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1151	2160	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1150	2148	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1146	2130	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1151	2139	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1150	2135	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1146	2116	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1151	2125	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1150	2121	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1146	2352	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1151	2361	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1150	2357	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	660	764	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	221	544	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	223	548	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	224	549	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	479	564	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	481	565	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	482	566	<2.0	mg/Kg	2.0	SW 7760
TPH MODIFIED 8015						SW 8015M
TPH as Gas	238	479	<50.	mg/Kg	50	SW 8015M
TPH as Diesel	238	479	<50.	mg/Kg	50	SW 8015M
TPH as Oil	238	479	<50.	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	238	479	113.0	%		SW 8015M
TPH MODIFIED 8015						SW 8015M
TPH as Gas	239	481	<50.	mg/Kg	50	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.

MWG13-15\_23535



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

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

NET Job Number: 98.13082  
11/06/1998

Analyte	Prep	Batch	Run	Blank	Batch	Number	Analysis	Units	Reporting	Method
TPH as Diesel	239	481	<50.	mg/Kg	SW 8015M	50				
TPH as Oil	239	481	<50.	mg/Kg	SW 8015M	50				
N-octacosane (TPH surr)	239	481	109.0	%	SW 8015M					
UST VOLATILES NON-AQUEOUS					SW 8260A					
Benzene	40	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Ethylbenzene	40	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Toluene	40	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Xylenes, Total	40	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Dibromofluoromethane (Surr)	40	96.0	96.0	%	SW 8260A	80-120				
Toluene-d8 (Surr)	40	108.0	108.0	%	SW 8260A	81-117				
4-Bromofluoromethane (Surr)	40	108.0	108.0	%	SW 8260A	74-121				
UST VOLATILES NON-AQUEOUS					SW 8260A					
Benzene	42	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Ethylbenzene	42	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Toluene	42	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Xylenes, Total	42	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Dibromofluoromethane (Surr)	42	99.0	99.0	%	SW 8260A	74-134				
Toluene-d8 (Surr)	42	107.8	107.8	%	SW 8260A	90-134				
4-Bromofluoromethane (Surr)	42	110.4	110.4	%	SW 8260A	64-131				
Benzene	43	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Ethylbenzene	43	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Toluene	43	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Xylenes, Total	43	<0.005	<0.005	mg/Kg	SW 8260A	0.005				
Dibromofluoromethane (Surr)	43	95.2	95.2	%	SW 8260A	74-134				
Toluene-d8 (Surr)	43	103.2	103.2	%	SW 8260A	90-134				
4-Bromofluoromethane (Surr)	43	101.6	101.6	%	SW 8260A	64-131				
PNA CMPDS - 8310 NONAQUEOUS					SW 8310					
Acenaphthene	750	1794	<0.020	mg/Kg	SW 8310	0.020				

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

11/06/1998

NET Job Number: 98.13082

Mr. Wei-lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Acenaphthylene	750	1794	<0.020	mg/Kg	0.020	SW 8310
Anthracene	750	1794	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	750	1794	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	750	1794	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	750	1794	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	750	1794	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	750	1794	<0.040	mg/Kg	0.040	SW 8310
Chrysene	750	1794	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	750	1794	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	750	1794	<0.020	mg/Kg	0.020	SW 8310
Fluorene	750	1794	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	750	1794	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	750	1794	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	750	1794	<0.040	mg/Kg	0.040	SW 8310
Pyrene	750	1794	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	750	1794	82.9	%	43.125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	368	38	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	368	38	90.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	368	38	85.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	371	42	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	371	42	<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 Pasquinielli Drive  
 Westmont, IL 60559  
 Mr. Wei-Lin Feng

11/06/1998  
 NET Job Number: 98.13082

Analyte	Prep Run	Batch Number	Batch Analysis	Blank	Results	Units	Reporting Limit	Analytical Method
PCB-1232	371	42	<0.040	mg/Kg	0.040	SW 8082	0.040	SW 8082
PCB-1242	371	42	<0.040	mg/Kg	0.040	SW 8082	0.040	SW 8082
PCB-1248	371	42	<0.040	mg/Kg	0.040	SW 8082	0.040	SW 8082
PCB-1254	371	42	<0.040	mg/Kg	0.040	SW 8082	0.040	SW 8082
PCB-1260	371	42	<0.040	mg/Kg	0.040	SW 8082	0.040	SW 8082
Decachlorobiphenyl (Surf)	371	42	98.0	%	NA	SW 8082	NA	SW 8082
2,4,5,6-TCMX (Surf)	371	42	90.0	%	NA	SW 8082	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

11/06/1998

NET Job Number: 98.13082

Mr. Wei-lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	221	658	0.0100	0.0104	104.0
Arsenic, GFAA	223	661	0.0100	0.0105	105.0
Arsenic, GFAA	224	661	0.0100	0.0099	99.0
Barium, ICP	1146	2150	5.00	4.99	99.8
Barium, ICP	1151	2160	5.00	5.20	104.0
Barium, ICP	1150	2168	5.00	5.18	103.6
Cadmium, ICP	1146	2130	2.50	2.33	93.2
Cadmium, ICP	1151	2139	2.50	2.40	96.0
Cadmium, ICP	1150	2135	2.50	2.54	101.6
Chromium, ICP	1146	2116	5.00	4.75	95.0
Chromium, ICP	1151	2125	5.00	4.60	92.0
Chromium, ICP	1150	2121	5.00	5.55	111.0
Lead, ICP	1146	2352	5.00	5.45	109.0
Lead, ICP	1151	2361	5.00	5.50	110.0
Lead, ICP	1150	2357	5.00	5.8	116.0
Mercury, CVAA	660	764	0.0025	0.00267	106.8
Selenium, GFAA	221	547	0.0100	0.0083	83.0
Selenium, GFAA	223	548	0.0100	0.0085	85.0
Selenium, GFAA	224	549	0.0100	0.0090	90.0
Silver, AA	479	564	0.1	0.112	112.0
Silver, AA	481	565	0.10	0.107	107.0
Silver, AA	482	566	0.10	0.097	97.0
TPH MODIFIED 8015					
TPH as Gas	238	479	200	223	111.5
TPH as Diesel	238	479	200	211	105.5
TPH as Oil	238	479	200	203	101.5
N-octacosane (TPH surr)	238	479	100	111	111.0
TPH MODIFIED 8015					
TPH as Gas	239	481	200	217	108.5
TPH as Diesel	239	481	200	224	112.0
TPH as Oil	239	481	200	211	105.5



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 Fax: (815) 874-5622  
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**QUALITY CONTROL REPORT**  
**LABORATORY CONTROL STANDARD**

11/06/1998

NET Job Number: 98.13082

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

Analyte	Prep Run	Batch Number	True Conc.	Found Conc.	% Recovery
N-octacosane (TPH surr)	239	481	100	114	114.0
UST VOLATILES NON-AQUEOUS					
Benzene	40	40	20.0	21.0	105.0
Ethylbenzene	40	40	20.0	22.0	110.0
Toluene	40	40	20.0	21.0	105.0
Xylenes, Total	40	40	60.0	62.0	103.3
Dibromofluoromethane (Surr)	40	40	50.0	50.0	100.0
Toluene-d8 (Surr)	40	40	50.0	54.0	108.0
4-Bromofluoromethane (Surr)	40	40	50.0	55.0	110.0
UST VOLATILES NON-AQUEOUS					
Benzene	42	42	20.0	20.3	101.5
Ethylbenzene	42	42	20.0	21.8	109.0
Toluene	42	42	20.0	20.8	104.0
Xylenes, Total	42	42	60.0	62.7	104.5
Dibromofluoromethane (Surr)	42	42	50.0	50.3	100.6
Toluene-d8 (Surr)	42	42	50.0	54.7	109.4
4-Bromofluoromethane (Surr)	42	42	50.0	54.0	108.0
UST VOLATILES NON-AQUEOUS					
Benzene	43	43	20.0	21.3	106.5
Ethylbenzene	43	43	20.0	23.3	116.5
Toluene	43	43	20.0	22.2	111.0
Xylenes, Total	43	43	60.0	65.3	108.8
Dibromofluoromethane (Surr)	43	43	50.0	49.8	99.6
Toluene-d8 (Surr)	43	43	50.0	53.0	106.0
4-Bromofluoromethane (Surr)	43	43	50.0	53.5	107.0
PMA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	750	1794	0.033	0.034	103.0
Acenaphthylene	750	1794	0.033	0.030	90.9
Anthracene	750	1794	0.033	0.032	97.0
Benzo(a)anthracene	750	1794	0.033	0.031	93.9
Benzo(b)fluoranthene	750	1794	0.033	0.030	90.9





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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/06/1998

NET Job Number: 98.13082

Mr. Wei-lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Benzo(k)fluoranthene	750	1794	0.033	0.029	87.9
Benzo(a)pyrene	750	1794	0.033	0.026	78.8
Benzo(ghi)perylene	750	1794	0.033	0.028	84.8
Chrysene	750	1794	0.033	0.033	100.0
Dibenzo(a,h)anthracene	750	1794	0.033	0.029	87.9
Fluoranthene	750	1794	0.033	0.030	90.9
Fluorene	750	1794	0.033	0.031	93.9
Indeno(1,2,3-cd)pyrene	750	1794	0.033	0.029	87.9
Naphthalene	750	1794	0.033	0.028	84.8
Phenanthrene	750	1794	0.033	0.031	93.9
Pyrene	750	1794	0.033	0.030	90.9
Surr: p-Terphenyl	750	1794	2000	1,756	87.8
PCB'S NON-AQUEOUS					
PCB-1016	368	38	500	521	104.2
PCB-1260	368	38	500	535	107.0
Decachlorobiphenyl (Surr)	368	38	100	99	99.0
2,4,5,6-TCMX (Surr)	368	38	100	90	90.0
PCB'S NON-AQUEOUS					
PCB-1016	371	42	500	510	102.0
PCB-1260	371	42	500	528	105.6
Decachlorobiphenyl (Surr)	371	42	100	105	105.0
2,4,5,6-TCMX (Surr)	371	42	100	95	95.0

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

RPD - Relative Percent Difference

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

Analyte	Prep Run	Batch Number	Original Number	Duplicate Analysis	Units	RPD
pH, Non-Aqueous	170		8.13	8.08	units	0.6
pH, Non-Aqueous	171		8.52	8.62	units	1.2
Solids, Total	2502		55.4	54.2	%	2.2
Solids, Total	2502		90.8	89.3	%	1.7
Solids, Total	2518		88.6	85.7	%	3.3
Solids, Total	2518		86.9	86.3	%	0.7
Solids, Total	2518		92.3	91.6	%	0.8

Mr. Wei-Lin Feng

ENSR  
740 Pasquinielli Drive  
Westmont, IL 60559

NET Job Number: 98.13082

11/06/1998

**DUPLICATES**

**QUALITY CONTROL REPORT**

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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.

- (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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NATIONAL ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY RECORD

COMPANY ENSR

ADDRESS 740 Pasquinielli Dr. Westport, CT  
PHONE (630) 887-1700 FAX (630) 859-6367  
PROJECT NAME/LOCATION Cont'd Joliet # 29  
PROJECT NUMBER 1801-028-419  
PROJECT MANAGER Wei-Lin Fray Karen Dolnic

REPORT TO: Wei-Lin Fray  
INVOICE TO:  
P.O. NO.  
NET QUOTE NO.

SAMPLED BY  
(PRINT NAME)  
SIGNATURE

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	# and Type of Containers							OTHER	PH (9045)	PnAs (8310)	BTEX (8260)	PCBs (808)	RCRA Metals	(TetraS)	TPH (8015)	COMMENTS
			MATRIX	GRAB	COMP	HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>									
10/7	15:09	S-10	S	X					2	X	X	X	X	X	X	X	X	1-4oz, 1-16oz
	15:10	S-11	S	X					2	X	X	X	X	X	X	X	X	2-4oz limited sample
	15:15	S-12	S	X					2	X	X	X	X	X	X	X	X	2-4oz limited sample
	15:25	S-13	S	X					2	X	X	X	X	X	X	X	X	1-4oz, 1-16oz
	15:30	S-14	S	X					2	X	X	X	X	X	X	X	X	1-4oz, 1-16oz
10/8	10:58	B-13(0-3)	S	X					2	X	X	X	X	X	X	X	X	1-4oz, 1-16oz
	12:30	B-1(0-3)	S	X					2	X	X	X	X	X	X	X	X	1-4oz, 1-16oz
	12:50	B-7(0-4)	S	X					2	X	X	X	X	X	X	X	X	1-4oz, 1-16oz
	13:10	S-23	S	X					2	X	X	X	X	X	X	X	X	
	13:25	B-3(0-4)	S	X					2	X	X	X	X	X	X	X	X	
	13:53	B-5-5	S	X					2	X	X	X	X	X	X	X	X	
	14:05	B-6(0-2)	S	X					2	X	X	X	X	X	X	X	X	
	14:25	B-8(0-3)	S	X					2	X	X	X	X	X	X	X	X	

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: 36.6 blue  
Bottles supplied by NET?  YES /  NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA  REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS  
RECEIVED BY: Charlene Howell DATE: 10/8/98 TIME: 15:00

REQUISITIONED BY: Robby Crockett DATE: 10/8/98 TIME: 17:00  
REMARKS: 10-day Max Turnaround

METHOD OF SHIPMENT: Pickup  
RECEIVED FOR NET BY: J.C. D. L.



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 (800) 807-2877

Mr. Wei-Lin Feng

ENSR

740 Pasquelli Drive  
 Westmont, IL 60559

NET Job Number: 98.13758

11/08/1998

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: Comb-Joliet #29; 1801-023

Sample Number	Sample Description	Date Taken	Date Received
499551	MW-2	10/22/1998	10/23/1998
499552	MW-3	10/22/1998	10/23/1998
499553	MW-5	10/22/1998	10/23/1998

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*  
 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. : 499551

NET Job No.: 98.13758

Sample Description: MW-2  
ComEd-Joliet #29; 1801-023

Date Taken: 10/22/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/23/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.29	units	10/23/1998	0.10	efw	1713	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1352 1146	SW 7060
Barium, ICP	0.057	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	1352 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	1352 857	SW 7740
Silver, AA	<0.040	mg/L	11/03/1998	0.040	sep	1012 991	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		10/27/1998		wna	369	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1221	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1232	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1242	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1248	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1254	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1260	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
Surr: Tetrachloroxylene (TCX)	84.2	%	10/30/1998	22-154	greg	369 698	SW 8082
Surr: Decachlorobiphenyl (DCB)	60.5	%	10/30/1998	23-154	greg	369 698	SW 8082



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**ANALYTICAL REPORT**

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

Sample No. : 499551  
NET Job No.: 98.13758

Sample Description: MW-2  
Comed-Joliet #29; 1801-023

Date Taken: 10/22/1998  
Time Taken: 15:00  
Date Received: 10/23/1998  
Time Received: 16:00  
WDMR Cert. No. 999447130

Parameter Results Units Date of Analysis Method Analyst Batch No. Prep/Run Analytical

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Analytical
Benzene	<0.001	mg/L	11/05/1998	PQL				
Ethyl Benzene	<0.001	mg/L	11/05/1998	PQL				
Toluene	<0.001	mg/L	11/05/1998	PQL				
Xylenes, Total	<0.001	mg/L	11/05/1998	PQL				
Surr: Toluene-d8	110.6	%	11/05/1998					
Surr: Bromofluorobenzene	95.8	%	11/05/1998					
Surr: Dibromofluoromethane	99.8	%	11/05/1998					
Prep, 8310 PNAS AQUEOUS extracted								
PNA CMPDS - 8310 AQUEOUS			10/28/1998					
Acenaphthene	<0.0005	mg/L	11/02/1998	PQL				
Acenaphthylene	<0.0005	mg/L	11/02/1998	PQL				
Anthracene	<0.0005	mg/L	11/02/1998	PQL				
Benzofluoranthene	<0.00013	mg/L	11/02/1998	PQL				
Benzofluoranthene	<0.00018	mg/L	11/02/1998	PQL				
Benzofluoranthene	<0.00017	mg/L	11/02/1998	PQL				
Benzofluoranthene	<0.00023	mg/L	11/02/1998	PQL				
Benzofluoranthene	<0.00076	mg/L	11/02/1998	PQL				
Chrysene	<0.0005	mg/L	11/02/1998	PQL				
Dibenzofluoranthene	<0.00030	mg/L	11/02/1998	PQL				
Fluoranthene	<0.0005	mg/L	11/02/1998	PQL				
Fluorene	<0.0005	mg/L	11/02/1998	PQL				
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/02/1998	PQL				
Naphthalene	<0.0005	mg/L	11/02/1998	PQL				
Phenanthrene	<0.0010	mg/L	11/02/1998	PQL				
Pyrene	<0.0005	mg/L	11/02/1998	PQL				





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### ANALYTICAL REPORT

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

11/08/1998  
Sample No. : 499551  
NET Job No.: 98.13758

Sample Description: MW-2  
ComEd-Joliet #29; 1801-023

Date Taken: 10/22/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/23/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	89.7	%	11/02/1998	43-125	kdw	405 1199	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
 ENSR  
 740 Pasquini Drive  
 Westmont, IL 60559  
 Sample No.: 499552  
 NET Job No.: 98.13758

Sample Description: MW-3  
 Comed-Joliet #29; 1801-023  
 Date Taken: 10/22/1998  
 Time Taken: 18:00  
 Date Received: 10/23/1998  
 Time Received: 16:00  
 WDNR Cert. No. 999447130  
 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Analytical Method
pH	6.84	units	10/23/1998	PQL				EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	mhp		1352	1146	SW 7060
Barium, ICP	0.102	mg/L	11/05/1998	kdm		2197	3769	SW 60108
Cadmium, ICP	<0.010	mg/L	11/05/1998	kdm		2197	3737	SW 60108
Chromium, ICP	<0.040	mg/L	11/05/1998	kdm		2197	3746	SW 60108
Lead, GFAA	<0.0050	mg/L	11/06/1998	mhp		1352	2170	SW 7421
Mercury, CVA	<0.0002	mg/L	11/03/1998	sep		1185	1091	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/07/1998	mhp		1352	857	SW 7740
Silver, AA	<0.040	mg/L	11/03/1998	sep		1012	991	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		10/27/1998	wna		369		SW 3510C
PCBs 8082 Aqueous	<0.0005	mg/L	10/30/1998	greg		369	698	SW 8082
PCB-1016	<0.0005	mg/L	10/30/1998	greg		369	698	SW 8082
PCB-1221	<0.0005	mg/L	10/30/1998	greg		369	698	SW 8082
PCB-1232	<0.0005	mg/L	10/30/1998	greg		369	698	SW 8082
PCB-1242	<0.0005	mg/L	10/30/1998	greg		369	698	SW 8082
PCB-1248	<0.0005	mg/L	10/30/1998	greg		369	698	SW 8082
PCB-1254	<0.0005	mg/L	10/30/1998	greg		369	698	SW 8082
PCB-1260	<0.0005	mg/L	10/30/1998	greg		369	698	SW 8082
Surr: Tetrachloroethylene (TCX)	98.7	%	10/30/1998	greg		22-154		SW 8082
Surr: Decachlorobiphenyl (DCB)	60.6	%	10/30/1998	greg		23-154		SW 8082



**NATIONAL  
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TESTING, INC.**

Bartlett Division  
850 West Bartlett Rd.  
Bartlett, IL 60103  
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Rockford Division  
3548 35th Street  
Rockford, IL 61109  
Tel: (815) 874-2171  
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(800) 807-2877

**ANALYTICAL REPORT**

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

11/08/1998  
Sample No. : 499552  
NET Job No.: 98.13758

Sample Description: MW-3  
ComEd-Joliet #29; 1801-023

Date Taken: 10/22/1998  
Time Taken: 18:00  
IEPA Cert. No. 100221

Date Received: 10/23/1998  
Time Received: 16:00  
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	11/05/1998	0.001	mjo	2636	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/05/1998	0.001	mjo	2636	SW 8260A
Toluene	<0.001	mg/L	11/05/1998	0.001	mjo	2636	SW 8260A
Xylenes, Total	<0.001	mg/L	11/05/1998	0.001	mjo	2636	SW 8260A
Surr: Toluene-d8	109.8	%	11/05/1998	85-117	mjo	2636	SW 8260A
Surr: Bromofluorobenzene	100.4	%	11/05/1998	80-116	mjo	2636	SW 8260A
Surr: Dibromofluoromethane	99.4	%	11/05/1998	75-130	mjo	2636	SW 8260A
Prep, 8310 PNA's AQUEOUS							
PNA CMPDS - 8310 AQUEOUS	extracted		10/28/1998		rmp	405	SW 3520C
Acenaphthene	<0.0005	mg/L	11/02/1998	0.0005	kdw	405 1199	SW 8310
Acenaphthylene	<0.0005	mg/L	11/02/1998	0.0005	kdw	405 1199	SW 8310
Anthracene	<0.0005	mg/L	11/02/1998	0.0005	kdw	405 1199	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/02/1998	0.00013	kdw	405 1199	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/02/1998	0.00018	kdw	405 1199	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/02/1998	0.00017	kdw	405 1199	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/02/1998	0.00023	kdw	405 1199	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/02/1998	0.00076	kdw	405 1199	SW 8310
Chrysene	<0.0005	mg/L	11/02/1998	0.0005	kdw	405 1199	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/02/1998	0.00030	kdw	405 1199	SW 8310
Fluoranthene	<0.0005	mg/L	11/02/1998	0.0005	kdw	405 1199	SW 8310
Fluorene	<0.0005	mg/L	11/02/1998	0.0005	kdw	405 1199	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/02/1998	0.00043	kdw	405 1199	SW 8310
Naphthalene	<0.0005	mg/L	11/02/1998	0.0005	kdw	405 1199	SW 8310
Phenanthrene	<0.0010	mg/L	11/02/1998	0.0010	kdw	405 1199	SW 8310
Pyrene	<0.0005	mg/L	11/02/1998	0.0005	kdw	405 1199	SW 8310

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

Sample No. : 499552  
 NET Job No. : 98.13758

Date Taken: 10/22/1998  
 Time Taken: 18:00  
 EPA Cert. No. 100221

Date Received: 10/23/1998  
 Time Received: 16:00  
 MNR Cert. No. 999447130

Sample Description: MW-3  
 ComEd-Joliet #29; 1801-023

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
Surf: p-Terphenyl	85.6	%	11/02/1998	43-125	kdm	405	1199 SW 8310

ANALYTICAL REPORT



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

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

11/08/1998  
Sample No. : 499553  
NET Job No.: 98.13758

Sample Description: MW-5  
ComEd-Joliet #29; 1801-023

Date Taken: 10/22/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/23/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.26	units	10/23/1998	0.10	efw	1713	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1351 1146	SW 7060
Barium, ICP	0.062	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		10/27/1998		wna	369	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1221	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1232	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1242	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1248	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1254	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
PCB-1260	<0.0005	mg/L	10/30/1998	0.0005	greg	369 698	SW 8082
Surr: Tetrachloroxylene (TCX)	102.0	%	10/30/1998	22-154	greg	369 698	SW 8082
Surr: Decachlorobiphenyl (DCB)	52.2	%	10/30/1998	23-154	greg	369 698	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
 ENSR  
 740 Pasquinelli Drive  
 Westmont, IL 60559  
 Sample No. : 499553  
 NET Job No.: 98.13758  
 Date Taken: 10/22/1998  
 Time Taken: 16:00  
 Date Received: 10/23/1998  
 Time Received: 16:00  
 WDNR Cert. No. 999447130  
 Sample Description: MW-5  
 Comed-Joliet #29; 1801-023

Date Taken: 10/22/1998  
 Time Taken: 16:00  
 Date Received: 10/23/1998  
 Time Received: 16:00  
 WDNR Cert. No. 999447130

US1 VOLATILES 8260 - AQUEOUS  
 Benzene <0.001 mg/L 11/05/1998 0.001 mjo 2636 SW 8260A  
 Ethyl Benzene <0.001 mg/L 11/05/1998 0.001 mjo 2636 SW 8260A  
 Toluene <0.001 mg/L 11/05/1998 0.001 mjo 2636 SW 8260A  
 Xylenes, Total <0.001 mg/L 11/05/1998 0.001 mjo 2636 SW 8260A  
 Surf: Toluene-d8 112.2 % 11/05/1998 85-117 mjo 2636 SW 8260A  
 Surf: Bromofluorobenzene 104.6 % 11/05/1998 80-116 mjo 2636 SW 8260A  
 Surf: Dibromofluoromethane 101.8 % 11/05/1998 75-130 mjo 2636 SW 8260A  
 Prep, 8310 PNAS AQUEOUS extracted 10/28/1998 rmp 405 SW 3520C

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Analytical Method
Acenaphthylene	<0.0005	mg/L	11/02/1998	0.0005	kdm	405	1199	SW 8310
Acenaphthylene	<0.0005	mg/L	11/02/1998	0.0005	kdm	405	1199	SW 8310
Anthracene	<0.0005	mg/L	11/02/1998	0.0005	kdm	405	1199	SW 8310
Benzofluoranthene	<0.00013	mg/L	11/02/1998	0.00013	kdm	405	1199	SW 8310
Benzofluoranthene	<0.00018	mg/L	11/02/1998	0.00018	kdm	405	1199	SW 8310
Benzofluoranthene	<0.00017	mg/L	11/02/1998	0.00017	kdm	405	1199	SW 8310
Benzofluoranthene	<0.00023	mg/L	11/02/1998	0.00023	kdm	405	1199	SW 8310
Benzofluoranthene	<0.00023	mg/L	11/02/1998	0.00023	kdm	405	1199	SW 8310
Chrysene	<0.0005	mg/L	11/02/1998	0.0005	kdm	405	1199	SW 8310
Dibenzofluoranthracene	<0.00030	mg/L	11/02/1998	0.00030	kdm	405	1199	SW 8310
Fluoranthene	<0.0005	mg/L	11/02/1998	0.0005	kdm	405	1199	SW 8310
Fluoranthene	<0.0005	mg/L	11/02/1998	0.0005	kdm	405	1199	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/02/1998	0.00043	kdm	405	1199	SW 8310
Naphthalene	<0.0005	mg/L	11/02/1998	0.0005	kdm	405	1199	SW 8310
Phenanthrene	<0.0010	mg/L	11/02/1998	0.0010	kdm	405	1199	SW 8310
Pyrene	<0.0005	mg/L	11/02/1998	0.0005	kdm	405	1199	SW 8310



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**ANALYTICAL REPORT**

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

11/08/1998  
Sample No. : 499553  
NET Job No.: 98.13758

Sample Description: MW-5  
ComEd-Joliet #29; 1801-023

Date Taken: 10/22/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/23/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	88.3	%	11/02/1998	43-125	kdw	405 1199	SW 8310

CV - Continuing Calibration Verification

Analyte	Run	Batch	True	Conc.	Found	Recovery
	Number	Conc.	Conc.	Conc.	Conc.	Percent
pH	1713	7.02	7.01	99.9		
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	3766	2.00	1.97	98.5		
Lead, GFAA	2170	0.0250	0.0253	101.2		
Mercury, CVA	1091	0.0025	0.00262	104.8		
Selenium, GFAA	857	0.0500	0.0487	97.4		
Silver, AA	991	0.500	0.515	103.0		
Silver, AA	992	0.500	0.481	96.2		
PCBS 8082 Aqueous	698	500.	502.	100.4		
PCB-1016	698	500.	502.	100.4		
PCB-1260	698	500	502.	100.4		
PCBS 8082 Aqueous	698	500.	513.	102.6		
PCB-1016	698	500.	513.	102.6		
PCB-1260	698	500	515.	103.0		
UST VOLATILES 8260 - AQUEOUS	2636	50.0	53.5	107.0		
Benzene	2636	50.0	52.7	105.4		
Ethyl Benzene	2636	50.0	55.1	110.2		
Toluene	2636	150	171	114.0		
Xylenes, Total	2636	5000	4,862	97.2		
Acenaphthene	1199	5000	5,085	101.7		
Acenaphthylene	1199	5000	5,245	104.9		
Anthracene	1199	5000	5,197	103.9		
Benzo(a)anthracene	1199	5000	4,983	99.7		
Benzo(b)fluoranthene	1199	5000	4,905	98.1		
Benzo(k)fluoranthene	1199	5000	4,956	99.1		
Benzo(a)pyrene	1199	5000	5,097	101.9		
Benzo(ghi)perylene	1199	5000	5,159	103.2		
Chrysene	1199	5000	5,053	101.1		
Dibenzo(a,h)anthracene	1199	5000	5,054	101.1		
Fluoranthene	1199	5000	5,033	100.7		

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

11/08/1998  
NET Job Number: 98.13758

QUALITY CONTROL REPORT  
CONTINUING CALIBRATION VERIFICATION

Barlett Division  
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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13758

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc.	Percent
	Batch Number	True Conc.		
Indeno(1,2,3-cd)pyrene	1199	5000	5,093	101.9
Naphthalene	1199	5000	4,705	94.1
Phenanthrene	1199	5000	5,126	102.5
Pyrene	1199	5000	4,973	99.5
Surr: p-Terphenyl	1199	5000	4,985	99.7

CCV - Continuing Calibration Verification

MWG13-15\_23557

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.

Analyte	Batch Number	Prep Run	Blank	Analysis	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	1351	1145	<0.0050	mg/L	0.0050	SM 7060	
Arsenic, GFAA	1352	1146	<0.0050	mg/L	0.0050	SM 7060	
Barium, ICP	2197	3769	<0.020	mg/L	0.020	SM 60108	
Cadmium, ICP	2197	3737	<0.010	mg/L	0.010	SM 60108	
Chromium, ICP	2197	3746	<0.040	mg/L	0.040	SM 60108	
Lead, GFAA	1351	2170	<0.0050	mg/L	0.0050	SM 7421	
Lead, GFAA	1352	2170	<0.0050	mg/L	0.0050	SM 7421	
Mercury, CVA	1185	1091	<0.0002	mg/L	0.0002	SM 7470A	
Mercury, CVA	1185	1091	<0.0002	mg/L	0.0002	SM 7470A	
Selenium, GFAA	1351	856	<0.0050	mg/L	0.005	SM 7740	
Selenium, GFAA	1352	857	<0.0050	mg/L	0.005	SM 7740	
Silver, AA	1012	991	<0.040	mg/L	0.040	SM 7760	
Silver, AA	1014	992	<0.040	mg/L	0.040	SM 7760	
PCBs 8082 Aqueous	369	698	<0.5	ug/L	0.5	SM 8082	
PCB-1016	369	698	<0.5	ug/L	0.5	SM 8082	
PCB-1221	369	698	<0.5	ug/L	0.5	SM 8082	
PCB-1232	369	698	<0.5	ug/L	0.5	SM 8082	
PCB-1242	369	698	<0.5	ug/L	0.5	SM 8082	
PCB-1248	369	698	<0.5	ug/L	0.5	SM 8082	
PCB-1254	369	698	<0.5	ug/L	0.5	SM 8082	
PCB-1260	369	698	<0.5	ug/L	0.5	SM 8082	
Surf: Tetrachloroethylene (TCX)	369	698	53.0	%	22-154	SM 8082	
Surf: Decachlorobiphenyl (DCB)	369	698	58.0	%	23-154	SM 8082	
UST VOLATILES 8260 - AQUEOUS							
Benzene	2636	<1.0	ug/L	1.0	SM 8260A		
Ethyl Benzene	2636	<1.0	ug/L	1.0	SM 8260A		
Toluene	2636	<1.0	ug/L	1.0	SM 8260A		
Xylenes, Total	2636	<1.0	ug/L	1.0	SM 8260A		
Surf: Dibromofluoromethane	2636	99.2	%	75-130	SM 8260A		

ENSR  
 740 Pasquini Drive  
 Westmont, IL 60559  
 Mr. Wei-Lin Feng  
 NET Job Number: 98.13758  
 11/08/1998

QUALITY CONTROL REPORT  
 BLANK ANALYSIS

Rockford Division  
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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13758

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Surr: Toluene-d8		2636	112.2	%	85-117	SW 8260A
Surr: Bromofluorobenzene		2636	104.0	%	80-116	SW 8260A
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	405	1199	<0.0005	mg/L	0.0005	SW 8310
Acenaphthylene	405	1199	<0.0005	mg/L	0.0005	SW 8310
Anthracene	405	1199	<0.0005	mg/L	0.0005	SW 8310
Benzo(a)anthracene	405	1199	<0.00013	mg/L	0.00013	SW 8310
Benzo(b)fluoranthene	405	1199	<0.00018	mg/L	0.00018	SW 8310
Benzo(k)fluoranthene	405	1199	<0.00017	mg/L	0.00017	SW 8310
Benzo(a)pyrene	405	1199	<0.00023	mg/L	0.00023	SW 8310
Benzo(ghi)perylene	405	1199	<0.00076	mg/L	0.00076	SW 8310
Chrysene	405	1199	<0.0005	mg/L	0.0005	SW 8310
Dibenzo(a,h)anthracene	405	1199	<0.00030	mg/L	0.00030	SW 8310
Fluoranthene	405	1199	<0.0005	mg/L	0.0005	SW 8310
Fluorene	405	1199	<0.0005	mg/L	0.0005	SW 8310
Indeno(1,2,3-cd)pyrene	405	1199	<0.00043	mg/L	0.00043	SW 8310
Naphthalene	405	1199	<0.0005	mg/L	0.0005	SW 8310
Phenanthrene	405	1199	<0.0010	mg/L	0.0010	SW 8310
Pyrene	405	1199	<0.0005	mg/L	0.0005	SW 8310
Surr: p-Terphenyl	405	1199	90.5	%	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**

11/08/1998

NET Job Number: 98.13758

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

Analyte	Prep Run	Batch Number	Batch Number	True Conc.	Found Conc.	% Recovery
Arsenic, GFAA	1351	1145	0.0200	0.0191	95.5	
Arsenic, GFAA	1352	1146	0.0100	0.0097	97.0	
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	
Lead, GFAA	1352	2170	0.0100	0.0100	100.0	
Mercury, CVA	1185	1091	0.0025	0.00251	100.4	
Mercury, CVA	1091	1091	0.0020	0.00196	98.0	
Selenium, GFAA	1351	856	0.0200	0.0176	88.0	
Selenium, GFAA	1352	857	0.0100	0.0104	104.0	
Silver, AA	1012	991	0.10	0.105	105.0	
Silver, AA	992	992	1.00	1.01	101.0	
Silver, AA	992	992	0.10	0.094	94.0	
PCBs 8082 Aqueous	369	698	500	432.	86.4	
PCB-1260	369	698	500	470.	94.0	
Surf: Tetrachloroethylene (TCX)	369	698	100	47.8	47.8	
Surf: Decachlorobiphenyl (DCB)	369	698	100	60.8	60.8	
UST VOLATILES 8260 - AQUEOUS	2636	20.0	20.0	21.7	108.5	
Benzene	2636	20.0	20.0	20.9	104.5	
Ethyl Benzene	2636	20.0	20.0	22.3	111.5	
Toluene	2636	60.0	60.0	68.6	114.3	
Xylenes, Total	2636	50.0	50.0	50.2	100.4	
Surf: Dibromofluoromethane	2636	50.0	50.0	55.9	111.8	
Surf: Toluene-d8	2636	50.0	50.0	54.2	108.4	
Surf: Bromofluorobenzene	2636	50.0	50.0	54.2	108.4	
PMA CMPDS - 8310 AQUEOUS	405	1199	0.001	0.00088	88.0	
Acenaphthene	405	1199	0.001	0.00088	88.0	
Acenaphthylene	405	1199	0.001	0.00092	92.0	



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13758

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Anthracene	405	1199	0.001	0.00097	97.0
Benzo(a)anthracene	405	1199	0.001	0.00102	102.0
Benzo(b)fluoranthene	405	1199	0.001	0.00097	97.0
Benzo(k)fluoranthene	405	1199	0.001	0.00095	95.0
Benzo(a)pyrene	405	1199	0.001	0.00095	95.0
Benzo(ghi)perylene	405	1199	0.001	0.00099	99.0
Chrysene	405	1199	0.001	0.00102	102.0
Dibenzo(a,h)anthracene	405	1199	0.001	0.00095	95.0
Fluoranthene	405	1199	0.001	0.00102	102.0
Fluorene	405	1199	0.001	0.00097	97.0
Indeno(1,2,3-cd)pyrene	405	1199	0.001	0.00101	101.0
Naphthalene	405	1199	0.001	0.00086	86.0
Phenanthrene	405	1199	0.001	0.00096	96.0
Pyrene	405	1199	0.001	0.00104	104.0
Surr: p-Terphenyl	405	1199	2000	1,931	96.6



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**QUALITY CONTROL REPORT**

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

11/08/1998

ENSR  
740 Pasquini Drive  
Westmont, IL 60559

NET Job Number: 98.13758

Mr. Wei-Lin Feng

Analyte	Prep Run	Batch Number	Batch Number	Matrix Spike Result	Sample Spike Result	Amount	Units	Percent Recovery	MSD	Spike Amount	Units	Percent Recovery	MS/MSD
Barium, ICP	2197	3769	0.165	0.062	0.100	103.0	mg/L	0.163	0.100	0.100	101.0	0.050	2.0
Cadmium, ICP	2197	3737	0.053	<0.010	0.050	106.0	mg/L	0.053	0.100	0.050	106.0	0.100	0.0
Chromium, ICP	2197	3766	0.114	<0.040	0.100	114.0	mg/L	0.108	0.100	0.100	108.0	0.100	5.4
Lead, GFAA	1352	2170	0.0114	<0.0050	0.0100	114.0	mg/L	0.0106	0.0100	0.0100	106.0	0.0100	7.3
Mercury, CVA	1185	1091	0.00245	<0.0002	0.0025	98.0	mg/L	0.0025	0.0025	0.0025	102.4	0.0025	4.3
Mercury, CVA	1185	1091	0.00207	<0.0002	0.0020	103.5	mg/L	0.0021	0.0020	0.0020	106.0	0.0020	2.4
Mercury, CVA	1185	1091	0.00229	<0.0002	0.0020	114.5	mg/L	0.0022	0.0020	0.0020	111.5	0.0020	2.7
Selenium, GFAA	1352	857	0.0067	<0.0050	0.0100	67.0	mg/L	0.0069	0.0100	0.0100	69.0	0.0100	2.9
Silver, AA	1012	991	0.093	<0.040	0.10	93.0	mg/L	0.091	0.10	0.10	91.0	0.10	2.2
Silver, AA	1014	992	0.040	<0.040	0.10	40.0	mg/L	0.091	0.10	0.10	91.0	0.10	77.9
UST VOLATILES B260 - AQUEU													
Benzene	2636	22.3	<0.001	20.0	111.5	21.8	mg/L	20.0	20.0	109.0	2.3	109.0	2.3
Ethyl Benzene	2636	21.6	<0.001	20.0	108.0	20.9	mg/L	20.0	20.0	104.5	3.3	104.5	3.3
Toluene	2636	23.1	<0.001	20.0	115.5	21.3	mg/L	20.0	20.0	106.5	8.1	106.5	8.1
Xylenes, Total	2636	69.0	<0.001	60.0	115.0	66.3	mg/L	60.0	60.0	110.5	4.0	110.5	4.0

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: 98.13758

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
pH		1713	7.26	7.27	units	0.1

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.

MWG13-15\_23563

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**NATIONAL ENVIRONMENTAL TESTING, INC.**



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.

Surf: : 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 1 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.



**STAIN OF UOJOUU RCUUHU**

COMPANY ENVSR Corp.  
 ADDRESS 740 Pasig-ville, Dr, Westchester  
 PHONE (430) 557-1700 FAX 650 850-5307  
 PROJECT NAME/LOCATION Contd / Sillet #29  
 PROJECT NUMBER 1801-033  
 PROJECT MANAGER Weilin Fang

REPORT TO: Weilin Fang

INVOICE TO: \_\_\_\_\_

P.O. NO. \_\_\_\_\_

NET QUOTE NO. \_\_\_\_\_

SAMPLED BY William McKeogh  
 (PRINT NAME)

William McKeogh  
 SIGNATURE

**ANALYSES**

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers								PH	PNA	PCB	RTEX	RCRA Metals
						HCl	NaOH	HNO3	H2SO4	OTHER								
<u>10/21/98</u>	<u>15:00</u>	<u>MW-2</u>	<u>W</u>															
<u>11/18/98</u>	<u>18:00</u>	<u>MW-3</u>																
<u>11/18/98</u>	<u>16:00</u>	<u>MW-5</u>																

To assist us in selecting the proper method  
 Is this work being conducted for regulatory  
 compliance monitoring? Yes \_\_\_ No \_\_\_  
 Is the work being conducted for regulatory  
 enforcement action? Yes \_\_\_ No \_\_\_  
 Which regulations apply: RCRA \_\_\_ NPDDES Wastewater \_\_\_  
 UST \_\_\_ Drinking Water \_\_\_  
 Other \_\_\_ None \_\_\_

CONDITION OF SAMPLE: BOTTLES INTACT?  YES  NO  
 FIELD FILTERED? YES  NO  A  
 COC SEALS PRESENT AND INTACT?  YES  NO  
 VOLATILES FREE OF HEADSPACE?  YES  NO

TEMPERATURE UPON RECEIPT: 2.0°C  
 Bottles supplied by NET?  YES  NO

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

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RECEIVED FOR NET BY:
<u>William McKeogh</u>	<u>10/21/98</u>	<u>19:00</u>	<u>William McKeogh</u>	<u>10/23/98</u>	<u>16:00</u>	<u>P. Russell</u>

METHOD OF SHIPMENT: NET



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

11/09/1998

NET Job Number: 98.13967

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-Joliet #29; 1801-230

Sample Number	Sample Description	Date Taken	Date Received
500229	MW-1	10/27/1998	10/28/1998

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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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinielli Drive  
Westmont, IL 60559  
Sample No. : 500229  
NET Job No. : 98.13967

Sample Description: MW-1  
Comed-Joliet #29; 1801-230  
Date Taken: 10/27/1998  
Time Taken: 09:00  
Date Received: 10/28/1998  
Time Received: 18:00  
WDNR Cert. No. 999447130

Parameter Results Units Date of Analysis Method Analyt Batch No. Analytical Method

Parameter	Results	Units	Date of Analysis	Method	Analyt Batch No.	Analytical Method
pH	7.05	units	10/28/1998	etw	1717	BPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	mhp	1352	SM 7060
Barium, ICP	0.139	mg/L	11/05/1998	kdw	2201	SM 6010B
Cadmium, ICP	<0.010	mg/L	11/05/1998	kdw	2201	SM 6010B
Chromium, ICP	<0.040	mg/L	11/05/1998	kdw	2201	SM 6010B
Lead, GFAA	0.0124	mg/L	11/06/1998	mhp	1352	SM 7421
Mercury, CVA	<0.0002	mg/L	11/05/1998	sep	1187	SM 7470A
Selenium, GFAA	0.0055	mg/L	11/07/1998	mhp	1352	SM 7740
Silver, AA	<0.040	mg/L	11/06/1998	sep	1016	SM 7760
Prep, PCBs 8082 Aqueous	COMPLETE		10/30/1998	tmp	370	SM 3510C
PCBs 8082 Aqueous	<0.0005	mg/L	11/06/1998	cls	370	SM 8082
PCB-1016	<0.0005	mg/L	11/06/1998	cls	370	SM 8082
PCB-1221	<0.0005	mg/L	11/06/1998	cls	370	SM 8082
PCB-1232	<0.0005	mg/L	11/06/1998	cls	370	SM 8082
PCB-1242	<0.0005	mg/L	11/06/1998	cls	370	SM 8082
PCB-1248	<0.0005	mg/L	11/06/1998	cls	370	SM 8082
PCB-1254	<0.0005	mg/L	11/06/1998	cls	370	SM 8082
PCB-1260	<0.0005	mg/L	11/06/1998	cls	370	SM 8082
Surr: Tetrachloroethylene (TCX)	76.0	%	11/06/1998	cls	370	SM 8082
Surr: Decachlorobiphenyl (DCB)	72.0	%	11/06/1998	cls	370	SM 8082



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**ANALYTICAL REPORT**

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

11/09/1998  
Sample No. : 500229  
NET Job No.: 98.13967

Sample Description: MW-1  
ComEd-Joliet #29; 1801-230

Date Taken: 10/27/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/28/1998  
Time Received: 18:00  
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	11/05/1998	0.001	mjo	2636	SW 8260A
Ethyl Benzene	0.0018	mg/L	11/05/1998	0.001	mjo	2636	SW 8260A
Toluene	<0.001	mg/L	11/05/1998	0.001	mjo	2636	SW 8260A
Xylenes, Total	0.0029	mg/L	11/05/1998	0.001	mjo	2636	SW 8260A
Surr: Toluene-d8	110.8	µ	11/05/1998	85-117	mjo	2636	SW 8260A
Surr: Bromofluorobenzene	102.4	µ	11/05/1998	80-116	mjo	2636	SW 8260A
Surr: Dibromofluoromethane	99.8	µ	11/05/1998	75-130	mjo	2636	SW 8260A
Prep, 8310 PNAS AQUEOUS	extracted		10/29/1998		mmv	406	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0005	mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Acenaphthylene	<0.0005	mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Anthracene	<0.0036 MX	mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Benzo (a) anthracene	<0.00013	mg/L	11/08/1998	0.00013	keh	406 1206	SW 8310
Benzo (b) fluoranthene	<0.00018	mg/L	11/08/1998	0.00018	keh	406 1206	SW 8310
Benzo (k) fluoranthene	<0.00017	mg/L	11/08/1998	0.00017	keh	406 1206	SW 8310
Benzo (a) pyrene	<0.00023	mg/L	11/08/1998	0.00023	keh	406 1206	SW 8310
Benzo (ghi) perylene	<0.00076	mg/L	11/08/1998	0.00076	keh	406 1206	SW 8310
Chrysene	<0.0005	mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Dibenzo (a, h) anthracene	<0.00030	mg/L	11/08/1998	0.00030	keh	406 1206	SW 8310
Fluoranthene	<0.0028 MX	mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Fluorene	0.0012	mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Indeno (1,2,3-cd) pyrene	<0.00043	mg/L	11/08/1998	0.00043	keh	406 1206	SW 8310
Naphthalene	<0.0005	mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310
Phenanthrene	<0.0014 MX	mg/L	11/08/1998	0.0010	keh	406 1206	SW 8310
Pyrene	<0.0005	mg/L	11/08/1998	0.0005	keh	406 1206	SW 8310

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

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

Sample No. : 500229  
 NET Job No. : 98.13967

Sample Description: MW-1  
 ComEd-Joliet #29; 1801-230

Date Taken: 10/27/1998  
 Time Taken: 09:00  
 EPA Cert. No. 100221

Date Received: 10/28/1998  
 Time Received: 18:00  
 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
Surr: p-Terphenyl	77.5	%	11/08/1998	POL	keh	406 1206 SM 8310	43-125

ANALYTICAL REPORT



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13967

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
pH	1717	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	1093	0.0025	0.00259	103.6
Mercury, CVAA	1093	0.0025	0.00259	103.6
Selenium, GFAA	857	0.0500	0.0487	97.4
Silver, AA	995	0.500	0.504	100.8
PCBs 8082 Aqueous				
PCB-1016	702	500.	449	89.8
PCB-1260	702	500	462	92.4
PCBs 8082 Aqueous				
PCB-1016	702	500.	467	93.4
PCB-1260	702	500	478	95.6
PCBs 8082 Aqueous				
PCB-1016	702	500.	473	94.6
PCB-1260	702	500	490	98.0
PCBs 8082 Aqueous				
PCB-1016	702	500.	486	97.2
PCB-1260	702	500	489	97.8
UST VOLATILES 8260 - AQUEOUS				
Benzene	2636	50.0	53.5	107.0
Ethyl Benzene	2636	50.0	52.7	105.4
Toluene	2636	50.0	55.1	110.2
Xylenes, Total	2636	150	171	114.0
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1206	5000	4,696	93.9
Acenaphthylene	1206	5000	5,096	101.9
Anthracene	1206	5000	5,039	100.8
Benzo(a)anthracene	1206	5000	5,158	103.2
Benzo(b)fluoranthene	1206	5000	5,085	101.7
Benzo(k)fluoranthene	1206	5000	4,840	96.8

CCV - Continuing Calibration Verification

MWG13-15\_23571



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**QUALITY CONTROL REPORT**

**CONTINUING CALIBRATION VERIFICATION**

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

11/09/1998

NET Job Number: 98.13967

Run	Batch	True Conc.	Conc. Found	Recovery Percent
1206	5000	4,881	4,881	97.6
1206	5000	4,897	4,897	97.9
1206	5000	5,027	5,027	100.5
1206	5000	4,974	4,974	99.5
1206	5000	4,931	4,931	98.6
1206	5000	4,888	4,888	97.8
1206	5000	4,557	4,557	91.1
1206	5000	4,702	4,702	94.0
1206	5000	4,767	4,767	95.3
1206	5000	5,159	5,159	103.2
1206	5000	4,914	4,914	98.3
1206	5000	4,486	4,486	89.7
1206	5000	5,077	5,077	101.5
1206	5000	5,046	5,046	100.9
1206	5000	4,942	4,942	98.8
1206	5000	4,866	4,866	97.3
1206	5000	4,851	4,851	97.0
1206	5000	4,863	4,863	97.3
1206	5000	5,141	5,141	102.8
1206	5000	4,978	4,978	99.6
1206	5000	5,032	5,032	100.6
1206	5000	4,912	4,912	98.2
1206	5000	4,925	4,925	98.5
1206	5000	4,503	4,503	90.1
1206	5000	4,625	4,625	92.5
1206	5000	4,650	4,650	93.0
1206	5000	4,998	4,998	100.0
1206	5000	4,950	4,950	99.0

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: 98.13967

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	1352	1146	<0.0050	mg/L	0.0050	SW 7060
Barium, ICP	2201	3769	<0.020	mg/L	0.020	SW 6010B
Cadmium, ICP	2201	3737	<0.010	mg/L	0.010	SW 6010B
Chromium, ICP	2201	3746	<0.040	mg/L	0.040	SW 6010B
Lead, GFAA	1352	2170	<0.0050	mg/L	0.0050	SW 7421
Mercury, CVAA	1187	1093	<0.0002	mg/L	0.0002	SW 7470A
Mercury, CVAA	1187	1093	<0.0002	mg/L	0.0002	SW 7470A
Selenium, GFAA	1352	857	<0.0050	mg/L	0.005	SW 7740
Silver, AA	1016	995	<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	µ	22-154	SW 8082
Surr: Decachlorobiphenyl (DCB)	370	701	63.0	µ	23-154	SW 8082
UST VOLATILES 8260 - AQUEOUS						SW 8260A
Benzene		2636	<1.0	ug/L	1.0	SW 8260A
Ethyl Benzene		2636	<1.0	ug/L	1.0	SW 8260A
Toluene		2636	<1.0	ug/L	1.0	SW 8260A
Xylenes, Total		2636	<1.0	ug/L	1.0	SW 8260A
Surr: Dibromofluoromethane		2636	99.2	µ	75-130	SW 8260A
Surr: Toluene-d8		2636	112.2	µ	85-117	SW 8260A
Surr: Bromofluorobenzene		2636	104.0	µ	80-116	SW 8260A
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	406	1201	<0.0005	mg/L	0.0005	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 Pasquinielli Drive  
Westmont, IL 60559  
Mr. Wei-Lin Feng

NET Job Number: 98.13967

11/09/1998

Analyte	Prep	Run	Batch	Batch	Number	Number	Results	Units	Reporting	Method
Acenaphthylene	406	1201	<0.0005	mg/L	0.0005	SM	8310			
Anthracene	406	1201	<0.0005	mg/L	0.0005	SM	8310			
Benzo (a) anthracene	406	1201	<0.0013	mg/L	0.0013	SM	8310			
Benzo (b) fluoreanthene	406	1201	<0.0018	mg/L	0.0018	SM	8310			
Benzo (k) fluoreanthene	406	1201	<0.0017	mg/L	0.0017	SM	8310			
Benzo (a) pyrene	406	1201	<0.0023	mg/L	0.0023	SM	8310			
Benzo (ghi) perylene	406	1201	<0.0076	mg/L	0.0076	SM	8310			
Chrysene	406	1201	<0.0005	mg/L	0.0005	SM	8310			
DiBenzo (a,h) anthracene	406	1201	<0.0030	mg/L	0.0030	SM	8310			
Fluoranthene	406	1201	<0.0005	mg/L	0.0005	SM	8310			
Fluorene	406	1201	<0.0005	mg/L	0.0005	SM	8310			
Indeno (1,2,3-cd) pyrene	406	1201	<0.0043	mg/L	0.0043	SM	8310			
Naphthalene	406	1201	<0.0005	mg/L	0.0005	SM	8310			
Phenanthrene	406	1201	<0.0010	mg/L	0.0010	SM	8310			
Pyrene	406	1201	<0.0005	mg/L	0.0005	SM	8310			
Surf: p-Terphenyl	406	1201	90.1	%	43-125	SM	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: 98.13967

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	1352	1146	0.0100	0.0097	97.0
Barium, ICP	2201	3769	5.00	5.44	108.8
Cadmium, ICP	2201	3737	2.50	2.57	102.8
Chromium, ICP	2201	3746	5.00	5.53	110.6
Lead, GFAA	1352	2170	0.0100	0.0100	100.0
Mercury, CVAA	1187	1093	0.0025	0.00253	101.2
Mercury, CVAA	1187	1093	0.0025	0.00253	101.2
Mercury, CVAA		1093	0.0020	0.00203	101.5
Selenium, GFAA	1352	857	0.0100	0.0104	104.0
Silver, AA	1016	995	0.10	0.091	91.0
UST VOLATILES 8260 - AQUEOUS					
Benzene		2636	20.0	21.7	108.5
Ethyl Benzene		2636	20.0	20.9	104.5
Toluene		2636	20.0	22.3	111.5
Xylenes, Total		2636	60.0	68.6	114.3
Surr: Dibromofluoromethane		2636	50.0	50.2	100.4
Surr: Toluene-d8		2636	50.0	55.9	111.8
Surr: Bromofluorobenzene		2636	50.0	54.2	108.4
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

Analyte	Run	Batch Number	True Conc.	Found Conc.	LCS	% Recovery
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	
Surf: p-Terphenyl	406	1201	2000	1,625	81.3	

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

11/09/1998  
 NET Job Number: 98.13967

QUALITY CONTROL REPORT  
 LABORATORY CONTROL STANDARD

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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: 98.13967

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix	Sample		Spike Amount	Units	Percent Recovery	MSD		Percent Recovery	MS/M RPD
	Batch Number	Batch Number	Spike Result	Result	MSD Result				Spike Amount	Units		
Arsenic, GFAA	1352	1147	0.0161	<0.0050	0.0100	mg/L	161.0	0.0156	0.0100	mg/L	156.0	3.2
Barium, ICP	2201	3769	0.402	0.292	0.100	mg/L	110.0	0.401	0.100	mg/L	109.0	0.9
Cadmium, ICP	2201	3737	0.053	<0.010	0.050	mg/L	106.0	0.049	0.050	mg/L	98.0	7.7
Chromium, ICP	2201	3746	0.109	<0.040	0.100	mg/L	109.0	0.109	0.100	mg/L	109.0	0.0
Lead, GFAA	1352	2170	0.0114	<0.0050	0.0100	mg/L	114.0	0.0106	0.0100	mg/L	106.0	7.3
Mercury, CVAA	1187	1093	0.00253	<0.0002	0.0025	mg/L	101.2	0.0023	0.0025	mg/L	94.8	6.4
Mercury, CVAA	1187	1093	0.00197	<0.0002	0.0020	mg/L	98.5	0.0020	0.0020	mg/L	104.5	5.8
Selenium, GFAA	1352	857	0.0067	<0.0050	0.0100	mg/L	67.0	0.0069	0.0100	mg/L	69.0	2.9
Silver, AA	1016	995	0.094	<0.040	0.10	mg/L	94.0	0.098	0.10	mg/L	98.0	4.2
UST VOLATILES 8260 - AQUEOU												
Benzene		2636	22.3	<0.001	20.0	mg/L	111.5	21.8	20.0	mg/L	109.0	2.3
Ethyl Benzene		2636	21.6	<0.001	20.0	mg/L	108.0	20.9	20.0	mg/L	104.5	3.3
Toluene		2636	23.1	<0.001	20.0	mg/L	115.5	21.3	20.0	mg/L	106.5	8.1
Xylenes, Total		2636	69.0	<0.001	60.0	mg/L	115.0	66.3	60.0	mg/L	110.5	4.0

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.

MWG13-15\_23577

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

RPD - Relative Percent Difference

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

Analyte	Run	Prep	Batch	Batch	Number	Number	Original	Duplicate	Analysts	Analysts	Units	RPD
pH	1717						7.32				units	0.1
pH	1717						7.05				units	0.3

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

11/09/1998  
 NET Job Number: 98.13967

DUPLICATES

QUALITY CONTROL REPORT

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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.

- (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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Mr. Wei-Lin Feng

ENSR

740 Pasquinielli Drive

Westmont, IL 60559

NET Job Number: 98.13967

IEPA Cert. No.: 100221

WDNR Cert. No.: 999447130

AZLA 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-Joliet #29; 1801-230 023-410

Table with 4 columns: Sample Number, Sample Description, Date Taken, Date Received. Row 1: 500229, MW-1, 10/27/1998, 10/28/1998

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 (signature)
Project Manager



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## ANALYTICAL REPORT

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

11/09/1998

Sample No. : 500229

NET Job No.: 98.13967

Sample Description: MW-1  
ComEd-Joliet #29; 1801-230

Date Taken: 10/27/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/28/1998  
Time Received: 18:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.05	units	10/28/1998	0.10	efw	1717	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/07/1998	0.0050	mhp	1352 1146	SW 7060
Barium, ICP	0.139	mg/L	11/05/1998	0.020	kdw	2201 3769	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/05/1998	0.010	kdw	2201 3737	SW 6010B
Chromium, ICP	<0.040	mg/L	11/05/1998	0.040	kdw	2201 3746	SW 6010B
Lead, GFAA	0.0124	mg/L	11/06/1998	0.0050	mhp	1352 2170	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/05/1998	0.0002	sep	1187 1093	SW 7470A
Selenium, GFAA	0.0055	mg/L	11/07/1998	0.0050	mhp	1352 857	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1016 995	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	370 702	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	370 702	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	370 702	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	370 702	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	370 702	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	370 702	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	370 702	SW 8082
Surr: Tetrachloroxylene (TCK)	76.0	µ	11/06/1998	22-154	tls	370 702	SW 8082
Surr: Decachlorobiphenyl (DCB)	72.0	µ	11/06/1998	23-154	tls	370 702	SW 8082



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**ANALYTICAL REPORT**

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

Sample No. : 500229  
NET Job No. : 98.13967

Sample Description: MW-1  
Comed-Joliet #29; 1801-230

Date Taken: 10/27/1998  
Time Taken: 09:00  
IRPA Cert. No. 100221

Date Received: 10/28/1998  
Time Received: 18:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Prep/Run	Analytical Method
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UST VOLATILES 8260 - AQUEOUS	<0.001	mg/L	11/05/1998	0.001	mjo	2636	SM 8260A	Benzene
	0.0018	mg/L	11/05/1998	0.001	mjo	2636	SM 8260A	Ethyl Benzene
	<0.001	mg/L	11/05/1998	0.001	mjo	2636	SM 8260A	Toluene
	0.0029	mg/L	11/05/1998	0.001	mjo	2636	SM 8260A	Xylenes, Total
	110.8	%	11/05/1998	85-117	mjo	2636	SM 8260A	Surt: Toluene-d8
	102.4	%	11/05/1998	80-116	mjo	2636	SM 8260A	Surt: Bromofluorobenzene
	99.8	%	11/05/1998	75-130	mjo	2636	SM 8260A	Surt: Dibromofluoromethane
Prep, 8310 PNAS AQUEOUS	extracted		10/29/1998		mmv	406	SM 3520C	
Acenaphthene	<0.0005	mg/L	11/08/1998	0.0005	keh	406	SM 8310	Acenaphthylene
Anthracene	<0.0036	mg/L	11/08/1998	0.0005	keh	406	SM 8310	Anthracene
Benzofluoranthene	<0.0013	mg/L	11/08/1998	0.0013	keh	406	SM 8310	Benzofluoranthene
Benzofluoranthene	<0.0018	mg/L	11/08/1998	0.0018	keh	406	SM 8310	Benzofluoranthene
Benzofluoranthene	<0.0017	mg/L	11/08/1998	0.0017	keh	406	SM 8310	Benzofluoranthene
Benzofluoranthene	<0.0023	mg/L	11/08/1998	0.0023	keh	406	SM 8310	Benzofluoranthene
Benzofluoranthene	<0.00076	mg/L	11/08/1998	0.00076	keh	406	SM 8310	Benzofluoranthene
Chrysene	<0.0005	mg/L	11/08/1998	0.0005	keh	406	SM 8310	Chrysene
Dibenzofluoranthene	<0.00030	mg/L	11/08/1998	0.00030	keh	406	SM 8310	Dibenzofluoranthene
Fluoranthene	<0.0028	mg/L	11/08/1998	0.0005	keh	406	SM 8310	Fluoranthene
Fluoranthene	0.0012	mg/L	11/08/1998	0.0005	keh	406	SM 8310	Fluoranthene
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/08/1998	0.00043	keh	406	SM 8310	Indeno(1,2,3-cd)pyrene
Naphthalene	<0.0005	mg/L	11/08/1998	0.0005	keh	406	SM 8310	Naphthalene
Phenanthrene	<0.0014	mg/L	11/08/1998	0.0010	keh	406	SM 8310	Phenanthrene
Pyrene	<0.0005	mg/L	11/08/1998	0.0005	keh	406	SM 8310	Pyrene

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. : 500229  
NET Job No.: 98.13967

Sample Description: MW-1  
ComEd-Joliet #29; 1801-230

Date Taken: 10/27/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/28/1998  
Time Received: 18:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	77.5	µ	11/08/1998	43-125	keh	406 1206	SM 8310



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**QUALITY CONTROL REPORT**

**CONTINUING CALIBRATION VERIFICATION**

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

11/09/1998  
 NET Job Number: 98.13967

Run	Batch	True	Conc.	Found	Recovery	Analyte
1717	702	7.02	6.96	99.1	99.1	pH
1146	0.0250	0.0250	0.0250	100.0	100.0	Arsenic, GFAA
3769	2.00	1.98	1.98	99.0	99.0	Barium, ICP
3737	1.00	0.969	0.969	96.9	96.9	Cadmium, ICP
3746	2.00	1.97	1.97	98.5	98.5	Chromium, ICP
2170	0.0250	0.0253	0.0253	101.2	101.2	Lead, GFAA
1093	0.0025	0.00259	0.00259	103.6	103.6	Mercury, CVA
857	0.0500	0.0487	0.0487	97.4	97.4	Selenium, GFAA
995	0.500	0.504	0.504	100.8	100.8	Silver, AA
702	500	449	449	89.8	89.8	PCBs 8082 Aqueous
702	500	473	473	94.6	94.6	PCB-1016
702	500	490	490	98.0	98.0	PCB-1260
702	500	486	486	97.2	97.2	PCBs 8082 Aqueous
702	500	478	478	95.6	95.6	PCB-1260
702	500	467	467	93.4	93.4	PCB-1016
702	500	462	462	92.4	92.4	PCBs 8082 Aqueous
2636	50.0	53.5	53.5	107.0	107.0	Benzene
2636	50.0	52.7	52.7	105.4	105.4	Ethyl Benzene
2636	50.0	55.1	55.1	110.2	110.2	Toluene
2636	150	171	171	114.0	114.0	Xylenes, Total
1206	5000	4.696	4.696	93.9	93.9	Acenaphthene
1206	5000	5.096	5.096	101.9	101.9	Acenaphthylene
1206	5000	5.039	5.039	100.8	100.8	Anthracene
1206	5000	5.158	5.158	103.2	103.2	Benzo(a)anthracene
1206	5000	5.085	5.085	101.7	101.7	Benzo(b)fluoranthene
1206	5000	4.840	4.840	96.8	96.8	Benzo(k)fluoranthene

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: 98.13967

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo(a)pyrene	1206	5000	4,881	97.6
Benzo(ghi)perylene	1206	5000	4,897	97.9
Chrysene	1206	5000	5,027	100.5
Dibenzo(a,h)anthracene	1206	5000	4,974	99.5
Fluoranthene	1206	5000	4,931	98.6
Fluorene	1206	5000	4,888	97.8
Indeno(1,2,3-cd)pyrene	1206	5000	4,557	91.1
Naphthalene	1206	5000	4,702	94.0
Phenanthrene	1206	5000	4,767	95.3
Pyrene	1206	5000	5,159	103.2
Surr: p-Terphenyl	1206	5000	4,914	98.3
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1206	5000	4,486	89.7
Acenaphthylene	1206	5000	5,077	101.5
Anthracene	1206	5000	5,046	100.9
Benzo(a)anthracene	1206	5000	4,942	98.8
Benzo(b)fluoranthene	1206	5000	4,866	97.3
Benzo(k)fluoranthene	1206	5000	4,851	97.0
Benzo(a)pyrene	1206	5000	4,863	97.3
Benzo(ghi)perylene	1206	5000	5,141	102.8
Chrysene	1206	5000	4,978	99.6
Dibenzo(a,h)anthracene	1206	5000	5,032	100.6
Fluoranthene	1206	5000	4,912	98.2
Fluorene	1206	5000	4,925	98.5
Indeno(1,2,3-cd)pyrene	1206	5000	4,503	90.1
Naphthalene	1206	5000	4,625	92.5
Phenanthrene	1206	5000	4,650	93.0
Pyrene	1206	5000	4,998	100.0
Surr: p-Terphenyl	1206	5000	4,950	99.0

CCV - Continuing Calibration Verification

MWG13-15\_23587



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**QUALITY CONTROL REPORT**

**BLANK ANALYSIS**

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

11/09/1998  
 NET Job Number: 98.13967

Prep Run	Batch Number	Batch Number	Blank Analysis	Results	Units	Reporting Limit	Analytical Method
1352	1146	1146	<0.0050	0.0050	mg/L	0.0050	SM 7060
2201	3769	3769	<0.020	0.020	mg/L	0.020	SM 6010B
2201	3737	3737	<0.010	0.010	mg/L	0.010	SM 6010B
2201	3746	3746	<0.040	0.040	mg/L	0.040	SM 6010B
1352	2170	2170	<0.0050	0.0050	mg/L	0.0050	SM 7421
1187	1093	1093	<0.0002	0.0002	mg/L	0.0002	SM 7470A
1187	1093	1093	<0.0002	0.0002	mg/L	0.0002	SM 7470A
1352	857	857	<0.0050	0.005	mg/L	0.005	SM 7740
1016	995	995	<0.040	0.040	mg/L	0.040	SM 7760
PCBs 8082 Aqueous	370	701	<0.5	0.5	ug/L	0.5	SM 8082
PCB-1016	370	701	<0.5	0.5	ug/L	0.5	SM 8082
PCB-1221	370	701	<0.5	0.5	ug/L	0.5	SM 8082
PCB-1232	370	701	<0.5	0.5	ug/L	0.5	SM 8082
PCB-1242	370	701	<0.5	0.5	ug/L	0.5	SM 8082
PCB-1248	370	701	<0.5	0.5	ug/L	0.5	SM 8082
PCB-1254	370	701	<0.5	0.5	ug/L	0.5	SM 8082
PCB-1260	370	701	<0.5	0.5	ug/L	0.5	SM 8082
Surr: Tetrachloroxylene (TCX)	370	701	55.0	55.0	%	22-154	SM 8082
Surr: Decachlorobiphenyl (DCB)	370	701	63.0	63.0	%	23-154	SM 8082
UFT VOLATILES 8260 - AQUEOUS	370	701	<1.0	1.0	ug/L	1.0	SM 8260A
Benzene	2636	2636	<1.0	1.0	ug/L	1.0	SM 8260A
Ethyl Benzene	2636	2636	<1.0	1.0	ug/L	1.0	SM 8260A
Toluene	2636	2636	<1.0	1.0	ug/L	1.0	SM 8260A
Xylenes, Total	2636	2636	<1.0	1.0	ug/L	1.0	SM 8260A
Surr: Dibromofluoromethane	2636	2636	99.2	99.2	%	75-130	SM 8260A
Surr: Toluene-d8	2636	2636	112.2	112.2	%	85-117	SM 8260A
Surr: Bromofluorobenzene	2636	2636	104.0	104.0	%	80-116	SM 8260A
PMA CMPS - 8310 AQUEOUS	406	1201	<0.0005	0.0005	mg/L	0.0005	SM 8310
Acenaphthene	406	1201	<0.0005	0.0005	mg/L	0.0005	SM 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

11/09/1998

NET Job Number: 98.13967

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting Limit	Analytical Method
	Batch Number	Batch Number	Analysis Results			
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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**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**QUALITY CONTROL REPORT**  
**LABORATORY CONTROL STANDARD**

11/09/1998

NET Job Number: 98.13967

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

Prep Run	Batch Number	Batch Number	True Conc.	Found Conc.	LCS	Analyte
						Arsenic, GFAA
	1352	1146	0.0100	0.0097	97.0	
	2201	3769	5.00	5.44	108.8	Barium, ICP
	2201	3737	2.50	2.57	102.8	Cadmium, ICP
	2201	3746	5.00	5.53	110.6	Chromium, ICP
	1352	2170	0.0100	0.0100	100.0	Lead, GFAA
	1187	1093	0.0025	0.00253	101.2	Mercury, CVA
	1187	1093	0.0025	0.00253	101.2	Mercury, CVA
	1093	1093	0.0020	0.00203	101.5	Mercury, CVA
	1352	857	0.0100	0.0104	104.0	Selenium, GFAA
	1016	995	0.10	0.091	91.0	Silver, AA
						UST VOLATILES 8260 - AQUEOUS
	2636	20.0	21.7	20.9	108.5	Benzene
	2636	20.0	20.0	20.9	104.5	Ethyl Benzene
	2636	20.0	22.3	22.3	111.5	Toluene
	2636	60.0	68.6	68.6	114.3	Xylenes, Total
	2636	50.0	50.2	50.2	100.4	Surr: Dibromofluoromethane
	2636	50.0	55.9	55.9	111.8	Surr: Toluene-d8
	2636	50.0	54.2	54.2	108.4	Surr: Bromofluorobenzene
						PMA CMPS - 8310 AQUEOUS
406	1201	0.001	0.0081	0.0081	81.0	Acenaphthene
406	1201	0.001	0.0082	0.0082	82.0	Acenaphthylene
406	1201	0.001	0.0083	0.0083	83.0	Anthracene
406	1201	0.001	0.0087	0.0087	87.0	Benzo (a) anthracene
406	1201	0.001	0.0088	0.0088	88.0	Benzo (b) fluoranthene
406	1201	0.001	0.0085	0.0085	85.0	Benzo (k) fluoranthene
406	1201	0.001	0.0077	0.0077	77.0	Benzo (a) pyrene
406	1201	0.001	0.0085	0.0085	85.0	Benzo (ghi) perylene
406	1201	0.001	0.0087	0.0087	87.0	Chrysene
406	1201	0.001	0.0083	0.0083	83.0	Dibenzo (a,h) anthracene
406	1201	0.001	0.0083	0.0083	83.0	Fluoranthene



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13967

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
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

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.

MSD = Matrix Spike Duplicate  
 RPD = Relative Percent Difference  
 MS = Matrix Spike

MS/MSD pair should be less than 20.

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

Advisory Control Limits for MS/MSDs:

NOTE: Matrix Spike Samples may not be samples from this job.

Analyte	Batch	Run	Matrix	Sample Spike	Result	Amount	Units	Percent Recovery	MSD	Result	Amount	Units	Percent Recovery	MS/MSD
Arsenic, GFAA	1352	1147		0.0161	<0.0050	0.0100	mg/L	161.0	0.0156	0.100	156.0	mg/L	156.0	3.2
Barium, ICP	2201	3769		0.402	0.292	0.100	mg/L	110.0	0.401	0.100	109.0	mg/L	109.0	0.9
Cadmium, ICP	2201	3737		0.053	<0.010	0.050	mg/L	106.0	0.049	0.050	98.0	mg/L	98.0	7.7
Chromium, ICP	2201	3746		0.109	<0.040	0.100	mg/L	109.0	0.109	0.100	109.0	mg/L	109.0	0.0
Lead, GFAA	1352	2170		0.0114	<0.0050	0.0100	mg/L	114.0	0.0106	0.0100	106.0	mg/L	106.0	7.3
Mercury, CVA	1187	1093		0.00253	<0.0002	0.0025	mg/L	101.2	0.0023	0.0025	94.8	mg/L	94.8	6.4
Mercury, CVA	1187	1093		0.00197	<0.0002	0.0020	mg/L	98.5	0.0020	0.0020	104.5	mg/L	104.5	5.8
Selenium, GFAA	1352	857		0.0067	<0.0050	0.0100	mg/L	67.0	0.0069	0.0100	69.0	mg/L	69.0	2.9
Silver, AA	1016	995		0.094	<0.040	0.10	mg/L	94.0	0.098	0.10	98.0	mg/L	98.0	4.2
UST VOLATILES 8260 - AQUEOUS														
Benzene	2636	22.3		<0.001	20.0	mg/L	111.5	21.8	20.0	109.0	mg/L	109.0	2.3	
Ethyl Benzene	2636	21.6		<0.001	20.0	mg/L	108.0	20.9	20.0	104.5	mg/L	104.5	3.3	
Toluene	2636	23.1		<0.001	20.0	mg/L	115.5	21.3	20.0	106.5	mg/L	106.5	8.1	
Xylenes, Total	2636	69.0		<0.001	60.0	mg/L	115.0	66.3	60.0	110.5	mg/L	110.5	4.0	

QUALITY CONTROL REPORT  
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

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

NET Job Number: 98.13967

11/09/1998

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NATIONAL ENVIRONMENTAL TESTING, INC.





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## QUALITY CONTROL REPORT

### DUPLICATES

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/09/1998

NET Job Number: 98.13967

Mr. Wei-Lin Feng

Analyte	Prep	Run	Original	Duplicate	Units	RPD
	Batch	Batch				
	Number	Number				
pH		1717	7.33	7.32	units	0.1
pH		1717	7.05	7.07	units	0.3

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.

MWG13-15\_23593

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.

**APPENDIX C**  
**Monitoring Well Gauging and Survey Data**

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

**Joliet #29 Generating Station**  
**1800 Channahon Road**  
**Joliet, Illinois**

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Project: ComEd Joliet #29 Generating Station  
 Project #: 1801-023-410  
 Date: 10/22/98

Operator: BM  
 Method: IP  
 Equipment #: IP #

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	100.71	13.80	11.85	NA	NA	NA	11.85	88.86
MW-2	118.84	36.85	29.68	NA	NA	NA	29.68	89.16
MW-3	99.23	13.70	10.40	NA	NA	NA	10.40	88.83
MW-4	110.62	9.65	dry					
MW-5	101.86	18.10	12.95	NA	NA	NA	12.95	88.91

**Note:**  
 TOC elevation is based on an arbitrary 100 foot benchmark.

