COMMONWEALTH EDISON COMPANY

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

ENSR
Consulting * Engineering * Remediation

November 1998
File Number 1801-023-610

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Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

November 16, 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) Waukegan Generating Station, located at 10 Greenwood Avenue in Waukegan, 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, 20 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. Twenty-two 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, 13 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 dibenzo(a,h)anthracene were detected in soil samples collected from borings at approximately 4 feet below grade.

Arsenic was detected above the IEPA cleanup objective of 3 milligrams per kilogram (mg/kg) in samples collected throughout the facility. However, the majority of concentrations of arsenic are within the range of arsenic detected by the EPA during a state wide soil survey in 1992. Arsenic was detected at concentrations greater than the background range at the western wastewater collection pond, coal runoff pond, the ash settling ponds, transformers on the east side of the southern Crib House, and north of the coal pile. Analytical results from the groundwater samples collected from monitoring wells previously installed to delineate concentrations of arsenic, indicated that arsenic is present in the area adjacent to the former

Tannery property at concentrations above the IEPA cleanup objective of 0.2 milligrams per liter (mg/l). The Tannery property is being investigated by ComEd in cooperation with the IEPA under the Site Remediation Program.

In addition, lead was detected above the IEPA cleanup objective of 400 mg/kg in the samples collected from the western wastewater collection pond and transformers on the east side of the southern Crib House. PCBs were detected above the IEPA cleanup objective of 1 mg/kg in samples collected from the western portion of the facility adjacent to a former tannery. The PCBs were only detected in the first 4 feet of soil.

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

Based on the relatively low volatility of the constituents of concern detected above the IEPA cleanup objectives, the soil inhalation exposure pathway is not a likely contaminant exposure pathway. In addition, due to the fact that the City of Waukegan receives its potable water from Lake Michigan and the groundwater beneath the facility is not being used as a potable source of water, the groundwater ingestion is not a potential contaminant exposure pathway. However, the soil ingestion pathway is a potential exposure pathway during construction activities. Therefore, this pathway would need to allow for protection/prevention for the construction worker scenario.

Based on the current land use (industrial) and site conditions (analytical results and soil types), 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 234 acre Waukegan Generating Station, located at 10 Greenwood Avenue in Waukegan, 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 26 to October 30, 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 22 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, 13 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 Waukegan Generating Station, which took place between October 26 and October 30, 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.

2.0 INVESTIGATION METHODS

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

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

1. **Construction Debris Area.** An area located at the southwestern corner of the facility is used for storing construction debris. Two soil borings (B-1 and B-16) were advanced. In addition, one monitoring well (MW-11) installed during a previous site investigation of the adjacent Tannery property was discovered close to B-1.

2. **Adjacent Properties.** Properties which were located adjacent to the facility have the potential to have impacted the facility. A tannery was located to the west (upgradient) of the facility. Three soil borings (B-13 through B-15) were advanced. In addition, one monitoring well (MW-12) installed during a previous site investigation of the adjacent Tannery property was discovered close to B-15.

3. **Railroad.** A railroad line is located at the western end of the facility. Railroad lines are also located throughout the facility as part of the facility's coal handling system. One soil boring (B-12) was advanced and one monitoring well (MW-3) was installed in the northwest corner of the facility. One surface soil sample (S-1) was collected to the northwest of the construction debris area, and one surface soil sample (S-6) was collected to the south of the former Coal Car Thawing House, which is located to the south of the peaking unit building.

4. **Ash Storage Area.** The ash storage area is located one the southern end of the facility. This area is used to store ash prior to having it transported off-site. One soil boring (B-22) was advanced.

5. **Ash Settling Ponds.** There are 2 ponds at the facility which are used to collect ash wastewater. The ponds are located at the southeastern corner of the facility. One sediment sample (X-5) was collected from the western pond, and one sediment sample (X-6) was collected from the eastern pond.

6. **Coal Handling Area.** Coal is received at the facility via railroad. The coal is unloaded onto conveyors and is transported to the coal pile at the southeastern end of the facility. One soil boring (B-20) was advanced to the north of the coal pile.

7. **Coal Runoff Pond.** There is one pond at the facility which is used for runoff water from the coal pile. The pond is located to the west of the coal pile. One sediment sample (X-4) was collected and one soil boring (B-17) was collected to the west of the pond.

8. **Coal Handling Tractor Buildings.** These buildings house and maintain the coal handling tractors, and are used for the storage of various oils and lubricants. These buildings are located at the northwest end of the coal pile. One surface soil sample (S-13) was collected to the west of the Coal Handling Tractor Maintenance Building, and one surface soil sample (S-14) was collected to the east of the Coal Handling Tractor Maintenance Building.

9. **Peaking Units.** There is one peaking unit building located to the southwest of the main building. These peaking units use jet fuel to generate power. Two surface soil samples (S-4 and S-5) were collected. One soil boring (B-3) was advanced and one monitoring well (MW-2) was installed to the south of the peaking unit building.

10. **Jet Fuel Aboveground Storage Tank.** Two 300,000 gallon aboveground storage tanks (ASTs) are located to the west of the peaking unit building. These ASTs are used for the storage of jet fuel which is pumped via underground piping to the facility's peaking units. One surface soil sample (S-2) was collected adjacent to the fuel regulator building, and one surface soil sample (S-3) was collected to the south of the Pump House.

11. **Wastewater Collection Ponds.** There are 2 ponds at the facility which are used for wastewater collection. One pond is located to the west of the jet fuel ASTs and one pond is located at the northeastern corner of the facility. One sediment sample (X-1) was collected from the western pond. In addition, a drainage ditch is located adjacent to this pond. One sediment sample (X-2) was collected from this ditch. One sediment sample (X-3) was collected from the northeastern pond.

12. **Transformers.** Transformers with oil staining were observed throughout the facility. Soil samples were collected in 3 locations with the most significant staining. The first location contains the transformers on the east side of the southern Crib House, located on the west side of the main building. One surface soil sample (S-11) was collected. The second location contains the transformers to the northeast of the jet fuel ASTs. One soil boring (B-19) was advanced. The third location contains the transformers to the north of the peaking unit building. One soil boring (B-4) was advanced.

13. **Used Oil ASTs.** There are two 7,500 gallon ASTs at the facility which are used for the storage of used oil. One AST is located to the west of the western wastewater collection pond. One soil boring (B-2) was advanced. The second AST is located to the east of the northeastern wastewater collection pond. One surface soil sample (S-9) was collected.

14. **Fire Brigade Area.** A fire brigade area is located to the west of the northeastern wastewater collection pond. This area was used as an area for fire safety training. Two

soil borings (B-6 and B-7) were advanced.

15. **Materials Storage Buildings.** There are two materials storage buildings located at the facility. The storage buildings are located to the west of the fire brigade area. The concern at this storage building was drum storage at the building. One soil boring (B-8) was advanced between the two buildings.

16. **Gasoline/Diesel ASTs.** One 500 gallon gasoline AST and one 500 gallon diesel fuel AST are located to the west of the two materials storage buildings. One soil boring (B-9) was advanced. One 10,000 gallon diesel AST is located to the north of the Coal Handling Tractor Building. One soil boring (B-18) was advanced and one monitoring well (MW-5) was installed adjacent to this AST. In addition, one surface soil sample (S-15) was collected.

17. **Chimneys/Precipitators.** The chimney units are located to the east of the main building. Surface staining from the precipitator equipment was observed. One surface soil sample (S-8) was collected.

18. **Former Underground Storage Tank.** One former underground storage tank (UST) was located at the north end of the facility adjacent to the western gate house. Two soil borings (B-10 and B-11) were advanced.

19. **Former Ignition Oil Pump House.** The former ignition oil pump house was located to the southeast of the peaking unit building. Two ASTs containing ignition oil were previously located adjacent to this building. One surface soil sample (S-7) was collected.

20. **Lakeshore.** Lake Michigan is located at the eastern end of the facility. Cooling water is drawn from and returned to Lake Michigan, and the inferred groundwater flow direction is towards Lake Michigan. Soil and groundwater samples should be collected from facility downgradient locations. One soil boring (B-21) was advanced and one monitoring well (MW-6) was installed to the south of the intake/discharge flume in the northeast end of the facility. One soil boring (B-23) was advanced and one monitoring well (MW-7) was installed to the north of the intake/discharge flume in the northeast end of the facility.

It should be noted that due to heavy concentrations of buried utility lines or other underground obstructions, one planned soil boring (B-5) was not advanced. Surface soil samples were not collected at these locations due to the areas being covered with concrete/asphalt. In addition, monitoring wells, which were installed at the facility during a previous investigation, were discovered in the vicinity of proposed monitoring wells MW-1 and MW-4, and therefore not installed. However, groundwater samples were taken from these two existing monitoring wells.

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

Thirteen surface soil samples (S-1 through S-9, S-11, and S-13 through S-15) 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

Twenty-two soil borings (B-1 through B-4, and B-6 through B-23) were advanced at the facility. The soil borings locations are illustrated on **Figure 5**. It should be noted that due to heavy concentrations of buried utility lines or other underground obstructions, one planned soil boring (B-5) was not advanced. 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 8 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-2, MW-3, and MW-5 through MW-7) were installed at the facility. The monitoring well locations are illustrated on **Figure 5**. It should be noted that monitoring wells MW-1 and MW-4 were not installed due to the discovery of monitoring wells MW-11 and MW-12, which were installed at the facility during a previous investigation. The monitoring wells were installed by Fox utilizing hollow-stem augers and rotary drilling techniques. The monitoring wells were installed to a maximum depth of 15 feet below grade. Fluids generated during monitoring well installation and groundwater sampling were discharged to the ground surface in proximity to each sampling location. All sampling equipment was decontaminated between each soil boring location using the procedure outlined in **Section 2.3**.

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

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

2.2 Monitoring Well Gauging and Survey

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

2.3 Equipment Decontamination

The drill rig and associated tooling, and sampling equipment were decontaminated prior to mobilization and before leaving the site. To minimize the potential for cross-contamination, drilling and sampling equipment were decontaminated between each use. Decontamination of drilling equipment consisted of steam cleaning. Sampling equipment, including split spoons and stainless steel sampling equipment, were decontaminated before each use by washing with a solution of Alconox (phosphate based detergent) and potable water, and rinsing with distilled water. Decontamination fluids generated during equipment decontamination were discharged to the ground surface in proximity to each sampling location.

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 II, therefore the Class II baseline was used.

3.1 Sediment

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

TPH. The analytical results indicated that TPH as diesel was detected at concentrations of 630 milligrams per kilogram (mg/kg) in sample X-2 and 17,800 mg/kg in sample X-1, and TPH as oil was detected at concentrations ranging from 223 mg/kg in sample X-6 to 10,900 mg/kg in sample X-4. However, cleanup objectives for TPH have not been established by the IEPA. TPH as gasoline was not detected above the laboratory method detection limits.

PNAs. The analytical results indicated that PNA constituents were detected in the sediment samples collected. However, these concentrations were not above the IEPA cleanup objectives.

PCBs. The analytical results indicated that PCBs were detected at a concentration of 0.17 mg/kg in sample X-1. However, this concentration was not 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 9.7 mg/kg in sample X-3 to 69 mg/kg in sample X-1. However, only two of 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. Arsenic was detected at concentrations greater than 24 mg/kg in samples X-1 and X-4 through X-6. Lead was detected at a concentration of 415 mg/kg in sample X-1.

pH. pH values ranged from 7.38 in sample X-4 to 8.92 in sample X-5.

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

3.2 Surface Soil

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

TPH. The analytical results indicated that TPH as gasoline was detected at a concentration of 472 mg/kg in sample S-5, and TPH as diesel was detected at concentrations ranging from 1,290 mg/kg in sample S-7 to 94,000 mg/kg in sample S-2. TPH as oil was detected at concentrations ranging from 390 mg/kg in sample S-1 to 283,000 mg/kg in sample S-8. 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, and dibenzo(a,h)anthracene were detected in sample S-1 at concentrations above the IEPA cleanup objectives. It should be noted that samples S-8 and S-13 through S-15 had elevated detection limits due to matrix interference. These elevated detection limits are above the cleanup objectives for benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene, and consequently, there is a possibility that the concentrations are actually above the cleanup objectives. Refer to **Table 3** for PNA results.

PCBs. The analytical results indicated that PCBs were detected at concentrations ranging from 0.063 mg/kg in sample S-1 to 0.79 mg/kg in sample S-11. However, these concentrations were not 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 3.7 mg/kg in sample S-4 to 29 mg/kg in sample S-11. However, the majority of 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. Arsenic was detected at a concentration of 29 mg/kg in sample S-11. Lead was detected at a concentration of 1,340 mg/kg in sample S-11.

pH. pH values ranged from 6.20 in sample S-8 to 8.72 in sample S-3.

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

3.3 Subsurface Soil

Native soil encountered beneath the fill material consisted primarily of a brown to gray fine to medium sand to the maximum depth of the borings at 8 feet below grade. Soil boring logs are included in **Appendix A**.

The PID readings obtained from the soil samples collected ranged from 1.4 ppmv in B-13 and B-14 (0 to 4 feet below grade) to 123 ppmv in B-18 (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 IEPA cleanup objectives.

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

PCBs. The analytical results indicated that PCBs were detected at a concentration of 1.02 mg/kg in B-15, which is above the IEPA cleanup objective of 1.0 mg/kg.

Metals. The analytical results indicated that arsenic was detected at concentrations above the IEPA cleanup objectives of 3 mg/kg. Arsenic was detected at concentrations ranging from 3.3 mg/kg in B-6 and B-16 to 25 mg/kg in B-20. However, the majority of 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. Arsenic was detected at a concentration of 25 mg/kg in B-20.

pH. pH values ranged from 7.01 in B-12 to 9.34 in B-21.

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 1.30 feet in MW-3 to 7.48 feet in MW-6. 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 east in the direction of Lake Michigan (**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 limit.

Metals. The analytical results indicated that arsenic was detected at concentrations above the IEPA cleanup objectives of 0.2 milligrams per liter (mg/l). Arsenic was detected at a concentration of 1.1 mg/l in MW-11.

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

4.0 DATA ASSESSMENT

4.1 Extent of Contamination

Based on the results of the subsurface investigation conducted, the following determinations and assessments were made regarding the extent of contamination at the facility. The following conclusions are subject to the Limitations presented in **Section 1.4**. In addition, although arsenic was detected above the IEPA cleanup objective, the majority of 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 and lead were the constituents of concern detected at concentrations above the IEPA cleanup objective of 3 mg/kg and 400 mg/kg, respectively. In addition, arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 69 mg/kg in all six sediment samples collected.

Lead was detected above the IEPA cleanup objectives, at a maximum concentration of 415 mg/kg in the following locations:

- **Wastewater Collection Ponds.** Western wastewater collection pond (X-1).

4.1.2 Surface Soil

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

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

- **Railroad.** Railroad line northwest of the construction debris area (S-1).

It should be noted that due to matrix interference in samples S-8 and S-13 through S-15, benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene had elevated detection limits. Consequently, there is a possibility that the concentrations are actually above the cleanup objectives. These samples were collected from the chimneys/precipitators (S-8), Coal Handling Tractor Maintenance Building (S-13 and S-14), and diesel AST located north of the Coal Handling Tractor Maintenance Building (S-15).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 29 mg/kg in the following locations:

- **Railroad.** Railroad line northwest of the construction debris area (S-1).
- **Jet Fuel ASTs.** Jet fuel ASTs located west of the peaking units (S-2).
- **Peaking Units.** Peaking units located southwest of the main building (S-4 and S-5).
- **Former Ignition Oil Pump House.** The former ignition oil pump house located southeast of the peaking units (S-7).
- **Chimneys/Precipitators.** Chimney units located east of the main building (S-8).
- **Used Oil ASTs.** The AST located east of the northeastern wastewater collection pond (S-9).
- **Transformers.** The transformers on the east side of the southern Crib House (S-11). It should be noted that lead was also detected above the IEPA cleanup objective of 400 mg/kg in this area (S-11) at a maximum concentration of 1,340 mg/kg.
- **Coal Handling Tractor Buildings.** The Coal Handling Tractor Maintenance Building (S-13 and S-14).
- **Diesel AST.** The diesel AST located north of the Coal Handling Tractor Maintenance Building (S-15).

4.1.3 Subsurface Soil

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

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

- **Gasoline/Diesel ASTs.** The gasoline and diesel AST located west of the two materials storage buildings on the north side of the facility (B-9).
- **Former UST.** A former UST located at the western gate house (B-11).

It should be noted that due to matrix interference in B-16, benzo(a)anthracene and benzo(a)pyrene had elevated detection limits. Consequently, there is a possibility that the concentrations are actually above the cleanup objectives. This sample was collected from the construction debris area at the southwestern corner of the facility (B-16).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 25 mg/kg in the following locations:

- **Construction Debris Area.** A construction debris area at the southwestern corner of the facility (B-1 and B-16).
- **Used Oil ASTs.** The AST west of the western wastewater collection pond (B-2).
- **Peaking Units.** Peaking units located southwest of the main building (B-3).

- **Transformers.** The transformers to the north of the peaking unit building (B-4) and transformers to the northeast of the jet fuel ASTs (B-19).
- **Fire Brigade Area.** A fire brigade area located west of the northeastern wastewater collection pond (B-6 and B-7).
- **Materials Storage Buildings.** The storage buildings located to the west of the fire brigade area (B-8).
- **Gasoline/Diesel ASTs.** The gasoline and diesel AST located west of the two materials storage buildings on the north side of the facility (B-9) and the diesel AST located north of the Coal Handling Tractor Building (B-18).
- **Former UST.** A former UST located at the western gate house (B-10 and B-11).
- **Railroad.** Railroad line in northwest corner of the facility (B-12).
- **Adjacent Properties.** A former tannery located west of the facility (B-12 through B-15)
- **Coal Runoff Pond.** The coal runoff pond located west of the coal pile (B-17).
- **Coal Handling Area.** North of the coal pile (B-20).
- **Ash Storage Area.** Ash storage area located at the southern end of the facility (B-22).
- **Lakeshore.** North of the intake/discharge flume at the northeast end of the facility (B-23).

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

- **Adjacent Properties.** A former tannery located west of the facility (B-15).

4.1.4 Groundwater

Arsenic was the only constituent of concern detected at concentrations above the IEPA cleanup objectives.

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 1.1 mg/l in the following locations:

- **Construction Debris Area.** A construction debris area at the southwestern corner of the facility (MW-11). This area is adjacent to the former Tannery property owned by ComEd.

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.

TABLES

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

Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

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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. Therefore, based on the analytical results, soil inhalation is a potential contaminant exposure pathway. Soil inhalation occurs when elevated concentrations of the constituents of concern are inhaled into the body. However, the highly volatile constituents (i.e., BTEX, TPH as gasoline), were not detected at concentrations above the IEPA cleanup objectives. The constituents that were detected at concentrations above the IEPA cleanup objectives (i.e., metals, semi-volatiles, PCBs), are not considered highly volatile. Based on the relatively low volatility of the constituents of concern detected above the IEPA cleanup objectives, the soil inhalation exposure pathway is not a likely contaminant exposure pathway.

4.2.3 Groundwater Ingestion

The groundwater ingestion pathway includes groundwater being used as a potable source of water. Therefore, due to the fact that the City of Waukegan receives its potable water from Lake Michigan and the groundwater beneath the facility is not being used as a potable source of water, 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.

Table 1

Sampling Locations and Analyses Summary

Commonwealth Edison Company
Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

	Sampling Locations[1]	Sampling Parameters	Sampling Depth (in feet)	Date Collected
Sediment Sample Identification				
X-1	Wastewater Collection Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
X-2	Wastewater Collection Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
X-3	Wastewater Collection Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
X-4	Coal Runoff Pond	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
X-5	Ash Settling Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
X-6	Ash Settling Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
Surface Soil Sample Identification				
S-1	Railroad	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/26/98
S-2	Jet Fuel ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/27/98
S-3	Jet Fuel ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/27/98
S-4	Peaking Units	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/27/98
S-5	Peaking Units	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/27/98
S-6	Railroad	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
S-7	Former Ignition Oil Pump House	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/27/98
S-8	Chimneys/Precipitators	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/28/98
S-9	Used Oil ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/28/98
S-11	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
S-13	Coal Handling Tractor Buildings	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/28/98
S-14	Coal Handling Tractor Buildings	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/28/98
S-15	Diesel AST	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/28/98
Monitoring Well Sample Identification				
MW-11	Construction Debris Area	BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
MW-2 (B-3)	Peaking Units	BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
MW-3 (B-12)	Railroad	BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
MW-12	Adjacent Properties	BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
MW-5 (B-18)	Diesel AST	BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
MW-6 (B-21)	Lakeshore	BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98
MW-7 (B-23)	Lakeshore	BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/29/98

Table 1

Sampling Locations and Analyses Summary

Commonwealth Edison Company
Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

	Sampling Locations	Sampling Parameters	Sampling Depth (in feet)	Date Collected
Boring Identification				
B-1	Construction Debris Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-2	Used Oil ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/26/98
B-3	Peaking Units	BTEX, PNAs, PCBs, RCRA metals, pH	1-3	10/27/98
B-4	Transformers	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/26/98
B-6	Fire Brigade Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-7	Fire Brigade Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-8	Materials Storage Buildings	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-9	Gasoline/Diesel AST	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-10	Former UST	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-11	Former UST	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-12	Railroad	BTEX, PNAs, PCBs, RCRA metals, pH	1-3	10/28/98
B-13	Adjacent Properties	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/26/98
B-14	Adjacent Properties	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/26/98
B-15	Adjacent Properties	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-16	Construction Debris Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/26/98
B-17	Coal Runoff Pond	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/29/98
B-18	Diesel AST	BTEX, PNAs, PCBs, RCRA metals, pH	1-3	10/27/98
B-19	Transformers	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/26/98
B-20	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/26/98
B-21	Lakeshore	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/26/98
B-22	Ash Storage Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-2	10/26/98
B-23	Lakeshore	BTEX, PNAs, PCBs, RCRA metals, pH	1-3	10/27/98

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.

(1) Sampling locations are referenced in the Phase II Environmental Site Assessment Report in **Section 2.0**.

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Table 2
Sediment Sampling
Soil Analytical Results in Milligrams per Kilogram (mg/kg)
Commonwealth Edison Company - Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

Sample I.D. Lab I.D. Sample Date	X-1 500676 10/29/98	X-2 500677 10/29/98	X-3 500679 10/29/98	X-4 500675 10/29/98	X-5 500680 10/29/98	X-6 500681 10/29/98	IEPA Soil Cleanup Objectives
Parameters							
BTEX							
Benzene	< 0.02	< 0.009	< 0.01	< 0.01	< 0.009	< 0.01	0.17
Toluene	< 0.02	< 0.009	< 0.01	< 0.01	< 0.009	< 0.01	29
Ethyl Benzene	< 0.02	< 0.009	< 0.01	< 0.01	< 0.009	< 0.01	19
Total Xylenes	< 0.02	< 0.009	< 0.01	< 0.01	< 0.009	< 0.01	150
TPH							
Gasoline	< 170	< 89	< 130	< 140	< 94	< 100	NA[1]
Diesel	17,800	630	< 130	< 140	< 94	< 100	NA
Oil	< 170	< 89	9,390	10,900	< 94	223	NA
PNAs							
Acenaphthene	< 0.069	< 0.036	< 0.12	< 0.3	< 0.038	< 0.042	2,800
Acenaphthylene	< 0.069	< 0.036	< 0.051	< 0.3	< 0.038	< 0.042	NA
Anthracene	< 0.27	< 0.072	< 0.10	< 0.6	< 0.075	< 0.084	59,000
Benzo(a)anthracene	< 0.17	< 0.036	< 0.74	< 2.0	< 0.043	< 0.10	8
Benzo(a)pyrene	< 0.066	< 0.014	< 0.13	< 0.49	< 0.0087	< 0.0096	0.8
Benzo(b)fluoranthene	< 0.093	< 0.0064	0.092	< 0.57	< 0.0068	< 0.0075	8
Benzo(g,h,i)perylene	< 0.14	< 0.072	< 0.10	< 0.6	< 0.075	< 0.084	NA
Benzo(k)fluoranthene	< 0.13	0.0081	< 0.20	< 0.70	< 0.032	< 0.0071	78
Chrysene	< 0.55	< 0.05	0.17	< 0.4	< 0.06	< 0.06	780
Dibenzo(a,h)anthracene	< 0.02	< 0.01	< 0.031	< 0.1	< 0.01	< 0.01	0.8
Fluoranthene	< 1.3	< 0.036	0.33	< 0.3	< 0.038	< 0.042	21,000
Fluorene	< 0.59	< 0.036	< 0.79	< 0.57	< 0.038	< 0.042	2,800
Indeno(1,2,3-c,d)pyrene	0.031	< 0.015	0.061	< 0.1	< 0.016	< 0.018	8
Naphthalene	< 0.087	0.15	< 0.064	< 0.3	< 0.047	< 0.052	420
Phenanthrene	< 0.14	< 0.072	0.23	< 0.6	< 0.075	< 0.084	NA
Pyrene	< 1.9	< 0.036	0.28	0.32	< 0.038	< 0.042	21,000
RCRA Metals[2]							
Arsenic	**69**	**16**	**9.7**	**35**	**28**	**33**	3
Barium	190	160	765	892	3,770	3,970	14,000
Cadmium	< 3.1	1.7	2.2	< 2.5	2.1	2.9	200
Chromium	19	38	31	15	42	52	420
Lead	**415**	30	71	26	55	71	400
Mercury	0.25	< 0.072	0.92	0.15	0.77	0.73	61
Selenium	< 0.87	< 0.45	0.71	0.76	2.6	2.5	1,000
Silver	< 6.9	< 3.6	< 5.1	< 5.4	4.5	< 4.2	1,000
Total PCBs	0.17	< 0.072	< 0.10	< 0.11	< 0.075	< 0.084	1
pH	7.99	7.78	7.99	7.38	8.92	8.89	NA

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

[1] NA indicates not applicable, cleanup objectives have not been established for these parameters

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

Table 3
Surface Soil Sampling
Soil Analytical Results in Milligrams per Kilogram (mg/kg)
Commonwealth Edison Company - Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

Sample I.D. / Lab I.D. / Sample Date	S-1 499921 10/26/98	S-2 500402 10/27/98	S-3 500401 10/27/98	S-4 500399 10/27/98	S-5 500400 10/27/98	S-6 500678 10/29/98	IEPA Soil Cleanup Objectives
Parameters							
BTEX							
Benzene	< 0.006	0.02	< 0.006	< 0.005	< 0.006	< 0.005	**0.17**
Toluene	< 0.006	0.36	< 0.006	< 0.005	< 0.006	< 0.005	**29**
Ethyl Benzene	< 0.006	0.61	< 0.006	< 0.005	< 0.006	< 0.005	**19**
Total Xylenes	< 0.006	3.6	< 0.006	< 0.005	< 0.006	< 0.005	**150**
TPH							
Gasoline	< 56	< 904	< 59	< 518	472	< 52	**NA[1]**
Diesel	< 56	94,000	< 59	< 518	< 55	5,790	**NA**
Oil	390	< 904	< 59	14,900	4,710	< 52	**NA**
PNAs							
Acenaphthene	< 1.8	< 2.9	< 0.023	< 0.94	< 0.2	< 2.1	**2,800**
Acenaphthylene	< 1.8	< 2.9	< 0.023	< 0.94	< 0.2	< 2.1	**NA**
Anthracene	< 3.6	< 85	< 0.093	< 1.8	< 0.61	< 4.2	**59,000**
Benzo(a)anthracene	**13**	< 5.8	< 0.10	< 1.1	< 0.81	< 1.4	**8**
Benzo(a)pyrene	**9.7**	< 0.66	0.03	< 0.22	< 0.14	< 0.48	**0.8**
Benzo(b)fluoranthene	**15**	< 0.52	0.018	< 0.49	0.078	< 0.38	**8**
Benzo(g,h,i)perylene	9.8	< 5.8	< 0.047	< 1.8	< 0.4	< 4.2	**NA**
Benzo(k)fluoranthene	8.2	< 0.49	0.023	< 0.16	< 0.31	< 0.36	**78**
Chrysene	17	< 4	0.041	< 1	< 0.2	< 3	**780**
Dibenzo(a,h)anthracene	**1.1**	< 0.8	0.0083	< 0.3	< 0.06	< 0.6	**0.8**
Fluoranthene	34	< 52	0.1	< 0.94	< 0.75	< 2.1	**21,000**
Fluorene	< 3.5	< 16	0.033	< 0.94	< 0.2	< 2.1	**2,800**
Indeno(1,2,3-c,d)pyrene	7.6	< 1.3	0.021	< 0.40	< 0.08	< 0.90	**8**
Naphthalene	4	65	0.042	< 1.2	< 0.2	< 2.6	**420**
Phenanthrene	13	< 8.9	0.11	< 1.8	1.2	< 4.2	**NA**
Pyrene	34	< 42	0.056	< 0.94	0.41	< 7.0	**21,000**
RCRA Metals[2]							
Arsenic	**5.2**	**6.5**	1.6	**3.7**	**5.3**	2.8	**3**
Barium	236	150	9.5	124	42	41	**14,000**
Cadmium	2.5	6	< 0.59	6.2	13	< 0.52	**200**
Chromium	51	29	7.6	104	13	4.5	**420**
Lead	29	130	11	48	33	8.5	**400**
Mercury	< 0.045	0.16	< 0.047	< 0.041	< 0.044	< 0.042	**61**
Selenium	< 0.28	0.51	< 0.29	< 0.26	< 0.28	0.31	**1,000**
Silver	< 2.2	< 3.6	< 2.3	< 2.1	< 2.2	2.2	**1,000**
Total PCBs	0.063	0.24	0.073	< 0.41	0.341	< 0.2	**1**
pH	8.35	6.93	8.72	7.10	7.76	6.60	**NA**

Table 3
Surface Soil Sampling
Soil Analytical Results in Milligrams per Kilogram (mg/kg)
Commonwealth Edison Company - Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

Sample I.D. / Lab I.D. / Sample Date	S-7 500397 10/27/98	S-8 500409 10/28/98	S-9 500408 10/28/98	S-11 500674 10/29/98	S-13 500406 10/28/98	S-14 500405 10/28/98	S-15 500404 10/28/98	IEPA Soil Cleanup Objectives
Parameters								
BTEX								
Benzene	< 0.007	< 0.006	< 0.006	< 0.008	< 0.006	< 0.006	< 0.007	**0.17**
Toluene	< 0.007	< 0.006	< 0.006	< 0.008	< 0.006	< 0.006	< 0.007	**29**
Ethyl Benzene	< 0.007	< 0.006	< 0.006	< 0.008	< 0.006	< 0.006	< 0.007	**19**
Total Xylenes	< 0.007	< 0.006	< 0.006	< 0.008	< 0.006	< 0.006	< 0.007	**150**
TPH								
Gasoline	< 69	< 1,160	< 234	< 809	< 65	< 63	< 653	**NA**
Diesel	1,290	< 1,160	< 234	< 809	< 65	< 63	87,600	**NA**
Oil	< 69	283,000	12,500	65,000	11,200	2,240	< 653	**NA**
PNAs								
Acenaphthene	< 2.5	< 3.4	< 0.92	< 0.32	< 2.6	< 1.0	< 8.7	**2,800**
Acenaphthylene	< 2.5	< 3.4	< 0.92	< 0.32	< 2.6	< 1.0	< 25	**NA**
Anthracene	< 5.0	< 6.9	< 1.9	< 0.65	< 5.2	< 2.0	< 100	**59,000**
Benzo(a)anthracene	< 5.7	< 3.9	< 0.67	< 0.39	**< 8.1**	**< 9.6**	**< 21**	**8**
Benzo(a)pyrene	< 0.57	< 0.80	< 0.22	0.11	< 0.79	**< 1.1**	< 0.54	**0.8**
Benzo(b)fluoranthene	< 0.45	< 0.63	< 0.28	0.079	< 1.7	< 0.67	< 5.0	**8**
Benzo(g,h,i)perylene	< 5.0	< 6.9	< 1.9	< 0.65	< 5.2	< 2.0	< 4.7	**NA**
Benzo(k)fluoranthene	< 0.42	< 0.58	< 0.23	0.099	< 32	< 1.2	< 1.1	**78**
Chrysene	< 4	< 4	< 2	< 0.5	< 4	< 2	< 6.7	**780**
Dibenzo(a,h)anthracene	< 0.7	**< 1**	< 0.3	< 0.1	< 0.8	**< 0.92**	< 0.7	**0.8**
Fluoranthene	< 2.5	< 3.4	< 0.92	< 0.32	< 2.6	< 1.6	< 89	**21,000**
Fluorene	< 2.5	< 3.4	< 0.92	< 0.32	< 2.6	< 1.0	65	**2,800**
Indeno(1,2,3-c,d)pyrene	< 1.1	< 1.5	< 0.40	< 0.14	< 1.1	< 0.44	< 0.99	**8**
Naphthalene	15	< 4.4	< 1.2	< 0.40	< 3.2	< 1.2	< 34	**420**
Phenanthrene	7.3	< 6.9	< 1.9	0.66	< 5.2	< 2.0	< 72	**NA**
Pyrene	< 2.5	< 3.4	< 0.92	< 0.32	< 2.6	< 1.6	< 157	**21,000**
RCRA Metals								
Arsenic	**5.2**	**10**	**9.8**	**29**	**3.9**	**5.3**	**3.3**	**3**
Barium	207	139	152	1,230	377	605	470	**14,000**
Cadmium	2.6	6	11	18	< 1.3	< 1.2	1.4	**200**
Chromium	29	39	16	150	18	26	12	**420**
Lead	70	139	49	**1,340**	18	26	42	**400**
Mercury	0.072	0.11	0.41	0.15	< 0.052	0.087	0.056	**61**
Selenium	0.76	2.2	0.42	2.6	0.34	2.4	0.38	**1,000**
Silver	< 2.8	< 2.3	< 2.3	< 3.2	< 2.6	< 2.5	< 2.6	**1,000**
Total PCBs	0.207	< 0.46	< 0.047	0.79	< 0.052	< 0.050	< 0.3	**1**
pH	8.15	6.20	7.61	7.61	7.44	7.75	7.08	**NA**

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

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

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

Table 4
Subsurface Soil Sampling
Soil Analytical Results in Milligrams per Kilogram (mg/kg)
Commonwealth Edison Company - Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

Sample I.D.	B-1	B-2	B-3	B-4	B-6	B-7	B-8	
Lab I.D.	500671	499916	500398	499915	500669	500670	500668	IEPA Soil
Sample Date	10/29/98	10/26/98	10/27/98	10/26/98	10/29/98	10/29/98	10/29/98	Cleanup
Sample Depth (feet)	0-4	0-4	1-3	0-4	0-4	0-4	0-4	Objectives
Parameters								
BTEX								
Benzene	< 0.005	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	< 0.005	**0.17**
Toluene	< 0.005	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	< 0.005	**29**
Ethyl Benzene	< 0.005	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	< 0.005	**19**
Total Xylenes	< 0.005	< 0.005	< 0.006	< 0.006	0.015	< 0.006	< 0.005	**150**
PNAs								
Acenaphthene	< 0.021	< 0.022	< 0.23	< 0.024	< 0.06	< 0.09	< 0.54	**2,800**
Acenaphthylene	< 0.021	< 0.022	< 0.23	< 0.024	< 0.06	< 0.09	< 0.1	**NA[1]**
Anthracene	< 0.042	< 0.18	< 1.1	< 0.12	< 0.1	< 0.2	< 0.2	**59,000**
Benzo(a)anthracene	0.042	0.31	0.46	0.041	< 0.030	< 0.01	0.21	**8**
Benzo(a)pyrene	0.032	0.11	0.24	0.0092	< 0.01	< 0.02	0.31	**0.8**
Benzo(b)fluoranthene	0.017	0.062	0.22	0.012	< 0.01	< 0.02	0.65	**8**
Benzo(g,h,i)perylene	< 0.042	0.1	< 0.46	< 0.048	< 0.1	< 0.2	0.49	**NA**
Benzo(k)fluoranthene	< 0.027	< 0.13	0.15	< 0.0041	< 0.01	< 0.02	0.18	**78**
Chrysene	0.036	0.34	< 0.3	< 0.04	< 0.1	< 0.1	0.22	**780**
Dibenzo(a,h)anthracene	0.0074	0.038	< 0.07	< 0.007	< 0.02	< 0.03	0.038	**0.8**
Fluoranthene	0.03	< 0.70	< 1.4	< 0.074	< 3.4	< 0.09	0.98	**21,000**
Fluorene	< 0.021	< 0.077	< 0.46	< 0.045	< 0.06	< 0.09	0.21	**2,800**
Indeno(1,2,3-c,d)pyrene	< 0.0091	0.047	< 0.10	< 0.010	< 0.03	< 0.04	0.29	**8**
Naphthalene	0.033	0.34	1.4	0.26	< 0.08	< 0.1	0.16	**420**
Phenanthrene	0.061	0.92	1.5	0.16	< 0.1	< 0.2	0.36	**NA**
Pyrene	0.076	0.48	< 1.9	< 0.042	< 0.06	< 0.09	0.76	**21,000**
RCRA Metals[2]								
Arsenic	**6.7**	**3.6**	**4.2**	**4.4**	**3.3**	**6.4**	**6.3**	**3**
Barium	601	22	38	16	14	247	27	**14,000**
Cadmium	1	< 0.54	0.84	< 0.60	< 0.53	< 0.56	< 0.54	**200**
Chromium	232	8.3	14	31	5.7	7.6	8.5	**420**
Lead	40	14	21	13	10	16	35	**400**
Mercury	< 0.042	0.083	0.05	< 0.048	< 0.042	< 0.045	0.52	**61**
Selenium	< 0.26	< 0.27	< 0.29	< 0.30	< 0.26	< 0.28	< 0.27	**1,000**
Silver	< 2.1	< 2.2	< 2.3	< 2.4	< 2.1	< 2.2	< 2.2	**1,000**
Total PCBs	< 0.042	< 0.043	< 0.046	< 0.048	0.048	< 0.045	< 0.043	**1**
pH	9.16	8.80	7.41	7.50	9.33	9.06	8.68	**NA**

Table 4
Subsurface Soil Sampling
Soil Analytical Results in Milligrams per Kilogram (mg/kg)
Commonwealth Edison Company - Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

Sample I.D.	B-9	B-10	B-11	B-12	B-13	B-14	B-15	
Lab I.D.	500667	500665	500666	500407	499917	499918	500672	IEPA Soil
Sample Date	10/29/98	10/29/98	10/29/98	10/28/98	10/26/98	10/26/98	10/29/98	Cleanup
Sample Depth (feet)	0-4	0-4	0-4	1-3	0-4	0-4	0-4	Objectives
Parameters								
BTEX								
Benzene	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	**0.17**
Toluene	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	**29**
Ethyl Benzene	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	**19**
Total Xylenes	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	**150**
PNAs								
Acenaphthene	< 1.4	< 0.022	< 5.4	< 0.024	< 0.1	< 0.022	< 0.023	**2,800**
Acenaphthylene	< 1.4	< 0.022	< 1.8	< 0.024	< 0.1	< 0.022	< 0.023	**NA**
Anthracene	< 2.8	< 0.044	< 3.6	< 0.047	< 0.3	< 0.044	< 0.071	**59,000**
Benzo(a)anthracene	4.6	0.051	6.1	< 0.017	0.18	< 0.031	< 0.063	**8**
Benzo(a)pyrene	**4.4**	0.033	**3.5**	0.013	0.14	< 0.0096	0.032	**0.8**
Benzo(b)fluoranthene	3.7	0.031	3.5	0.0098	0.068	0.0096	0.014	**8**
Benzo(g,h,i)perylene	3	< 0.044	4.8	< 0.047	< 0.3	< 0.044	< 0.046	**NA**
Benzo(k)fluoranthene	2.2	0.022	< 2.9	0.0059	< 0.032	< 0.0082	< 0.015	**78**
Chrysene	3.7	0.047	9.1	< 0.04	< 0.2	< 0.03	< 0.03	**780**
Dibenzo(a,h)anthracene	< 0.4	< 0.007	**0.95**	< 0.007	< 0.04	< 0.007	< 0.007	**0.8**
Fluoranthene	9	0.12	4.6	< 0.045	< 0.56	< 0.022	< 0.10	**21,000**
Fluorene	< 1.4	< 0.022	< 1.8	< 0.024	< 0.1	< 0.022	< 0.044	**2,800**
Indeno(1,2,3-c,d)pyrene	2.5	0.021	1.6	< 0.010	< 0.06	< 0.0095	< 0.0099	**8**
Naphthalene	< 1.7	0.041	< 2.2	0.11	< 0.2	< 0.028	0.11	**420**
Phenanthrene	5.2	0.086	23	0.073	0.67	< 0.044	0.14	**NA**
Pyrene	7.3	0.074	11	< 0.024	< 0.45	< 0.022	< 0.046	**21,000**
RCRA Metals								
Arsenic	**16**	**5.9**	**18**	**7.6**	**5.7**	**7.5**	**13**	**3**
Barium	290	42	59	509	76	322	493	**14,000**
Cadmium	1.3	0.57	1.9	1.4	1.3	0.7	0.86	**200**
Chromium	22	7.6	25	154	18	233	126	**420**
Lead	81	34	64	77	52	35	41	**400**
Mercury	0.27	0.053	0.074	< 0.047	0.11	0.058	0.055	**61**
Selenium	0.31	< 0.28	< 0.28	0.43	< 0.32	< 0.28	< 0.29	**1,000**
Silver	< 2.3	< 2.2	< 2.3	< 2.4	< 2.6	< 2.2	< 2.3	**1,000**
Total PCBs	0.057	< 0.044	< 0.045	< 0.047	< 0.052	< 0.044	**1.02**	**1**
pH	9.12	8.40	7.46	7.01	7.10	9.04	8.42	**NA**

Table 4
Subsurface Soil Sampling
Soil Analytical Results in Milligrams per Kilogram (mg/kg)
Commonwealth Edison Company - Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

Sample I.D.	B-16	B-17	B-18	B-19	B-20	B-21	B-22	B-23	
Lab I.D.	499919	500673	500403	499914	499913	499912	499920	500396	IEPA Soil
Sample Date	10/26/98	10/29/98	10/27/98	10/26/98	10/26/98	10/26/98	10/26/98	10/27/98	Cleanup
Sample Depth (feet)	0-4	0-4	1-3	0-4	0-4	0-4	0-2	1-3	Objectives
Parameters									
BTEX									
Benzene	< 0.006	< 0.005	< 0.006	< 0.005	< 0.006	< 0.005	< 0.006	< 0.006	**0.17**
Toluene	< 0.006	< 0.005	< 0.006	< 0.005	< 0.006	< 0.005	< 0.006	< 0.006	**29**
Ethyl Benzene	< 0.006	< 0.005	< 0.006	< 0.005	< 0.006	< 0.005	< 0.006	< 0.006	**19**
Total Xylenes	< 0.006	< 0.005	< 0.006	< 0.005	< 0.006	< 0.005	< 0.006	< 0.006	**150**
PNAs									
Acenaphthene	< 2.0	< 0.021	< 0.1	< 0.022	< 0.024	< 0.021	< 0.058	0.028	**2,800**
Acenaphthylene	< 2.0	< 0.021	< 0.1	< 0.022	< 0.024	< 0.021	< 0.067	< 0.025	**NA**
Anthracene	< 4.0	< 0.043	< 0.27	< 0.043	< 0.048	< 0.042	< 0.22	0.11	**59,000**
Benzo(a)anthracene	**< 10**	< 0.067	< 0.77	0.067	< 0.66	0.043	< 0.32	0.18	**8**
Benzo(a)pyrene	**< 2.0**	0.015	0.28	0.035	< 0.038	0.035	< 0.054	0.2	**0.8**
Benzo(b)fluoranthene	< 1.9	0.019	0.24	0.03	< 0.017	0.038	< 0.032	0.11	**8**
Benzo(g,h,i)perylene	< 4.0	< 0.043	0.26	< 0.043	< 0.048	< 0.042	< 0.051	0.14	**NA**
Benzo(k)fluoranthene	< 2.1	< 0.032	< 0.42	< 0.024	< 0.064	0.022	< 0.018	0.087	**78**
Chrysene	< 3	< 0.03	0.36	0.056	0.078	0.034	< 0.076	0.15	**780**
Dibenzo(a,h)anthracene	< 0.6	< 0.006	< 0.064	< 0.0080	< 0.023	< 0.006	< 0.019	0.02	**0.8**
Fluoranthene	< 2.0	< 0.057	< 0.49	0.13	< 0.12	0.085	< 0.28	0.41	**21,000**
Fluorene	< 2.0	< 0.021	< 0.1	< 0.022	< 0.024	< 0.021	< 0.14	0.041	**2,800**
Indeno(1,2,3-c,d)pyrene	< 0.88	< 0.0092	0.081	0.022	< 0.010	0.024	< 0.046	0.1	**8**
Naphthalene	< 2.5	0.1	0.73	0.082	0.038	< 0.026	< 0.032	0.068	**420**
Phenanthrene	< 4.0	0.082	0.86	0.14	0.097	0.051	0.67	0.25	**NA**
Pyrene	< 2.0	< 0.034	0.56	0.078	0.07	0.071	< 0.49	0.39	**21,000**
RCRA Metals									
Arsenic	**3.3**	**5**	**6.9**	**6.8**	**25**	**2.5**	**14**	**4.9**	**3**
Barium	401	267	739	238	192	7.6	1,050	17	**14,000**
Cadmium	< 0.63	0.75	1.5	0.93	3.1	< 0.53	1.7	0.62	**200**
Chromium	14	128	9.8	50	59	5.4	64	15	**420**
Lead	23	27	24	43	48	7.6	33	18	**400**
Mercury	0.6	< 0.043	0.093	0.22	0.053	< 0.042	0.085	0.099	**61**
Selenium	< 0.31	< 0.27	< 0.28	< 0.27	0.7	< 0.26	0.92	< 0.31	**1,000**
Silver	< 2.5	< 2.1	< 2.3	< 2.2	< 2.4	< 2.1	< 2.6	< 2.5	**1,000**
Total PCBs	0.86	< 0.043	< 0.046	< 0.043	< 0.048	0.072	< 0.051	< 0.049	**1**
pH	7.97	8.50	7.24	7.95	8.03	9.34	8.02	8.66	**NA**

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

(1) NA indicates not applicable, cleanup objectives have not been established for these parameters.
(2) Results are shown as totals, therefore the soil component of the groundwater ingestion exposure route has not been considered

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Table 5
Groundwater Sampling
Groundwater Analytical Results in Milligrams per Liter (mg/l)
Commonwealth Edison Company - Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

Sample I.D. Lab I.D. Sample Date	MW-11 500692 10/29/98	MW-2 (B-3) 500693 10/29/98	MW-3 (B-12) 500694 10/29/98	MW-12 500695 10/29/98	MW-5 (B-18) 500696 10/29/98	MW-6 (B-21) 500697 10/29/98	MW-7 (B-23) 500698 10/29/98	IEPA Groundwater (Class II) Cleanup Objectives
Parameters								
BTEX								
Benzene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0048	**0.025**
Toluene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**2.5**
Ethyl Benzene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**1.0**
Total Xylenes	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**10.0**
PNAs								
Acenaphthene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**2.1**
Acenaphthylene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**NA[1]**
Anthracene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**10.5**
Benzo(a)anthracene	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	**0.00065**
Benzo(a)pyrene	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	**0.002**
Benzo(b)fluoranthene	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	**0.0009**
Benzo(g,h,i)perylene	< 0.00076	< 0.00076	< 0.00076	< 0.00076	< 0.00076	< 0.00076	< 0.00076	**NA**
Benzo(k)fluoranthene	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	**0.00085**
Chrysene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.0075**
Dibenzo(a,h)anthracene	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030	**0.0015**
Fluoranthene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**1.4**
Fluorene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**1.4**
Indeno(1,2,3-c,d)pyrene	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00043	**0.00215**
Naphthalene	0.00056	0.00058	0.0011	0.00062	0.0012	< 0.0005	< 0.0005	**0.039**
Phenanthrene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**NA**
Pyrene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**1.05**
RCRA Metals								
Arsenic	**1.1**	0.0073	< 0.0050	< 0.0050	< 0.0050	0.01	0.0072	**0.2**
Barium	0.031	0.07	0.085	0.048	0.104	0.292	0.151	**2.0**
Cadmium	0.034	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.05**
Chromium	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**1.0**
Lead	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	**0.1**
Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.01**
Selenium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	**0.05**
Silver	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**0.05**
Total PCBs	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.0025**
pH	7.07	7.03	6.80	6.65	6.88	7.06	7.37	**NA**
Specific Conductivity (mol)	169.5	131.0	142.3	81.2	133.4	54.9	124.5	**NA**
Temperature (C)	14.1	16.0	14.8	15.5	16.1	16.6	15.1	**NA**

Notes:
Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table E: Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route

[1] NA indicates not applicable, cleanup objectives have not been established for these parameters.

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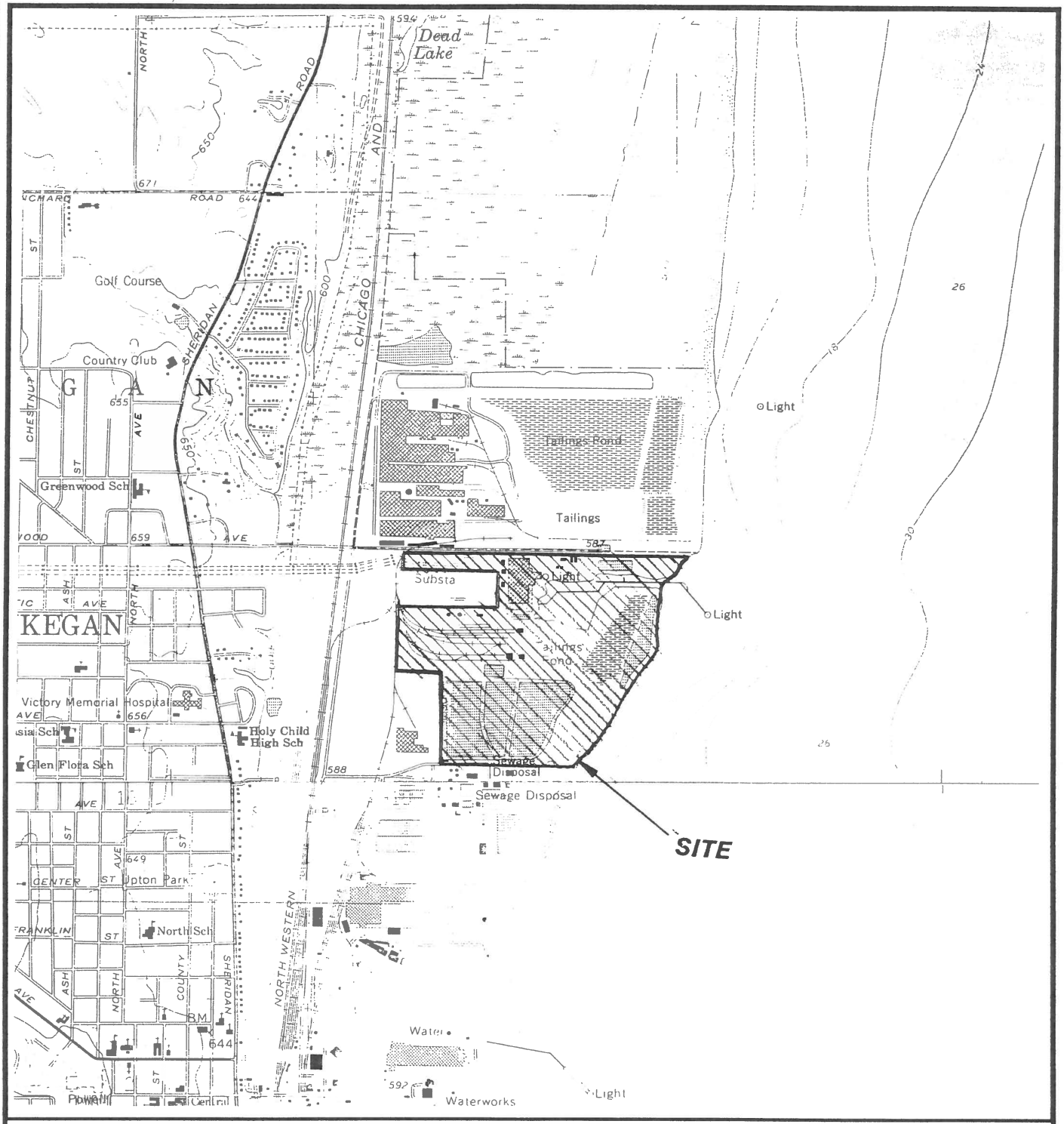
FIGURES

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

Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois



SCALE 1:24,000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

Contour interval 5 feet

Dwg No: WAUKEGANSL1

N

U.S.G.S.
ZION, IL. &
WAUKEGAN, IL

SITE LOCATION MAP

WAUKEGAN GENERATING STATION
10 GREENWOOD AVENUE
WAUKEGAN, ILLINOIS

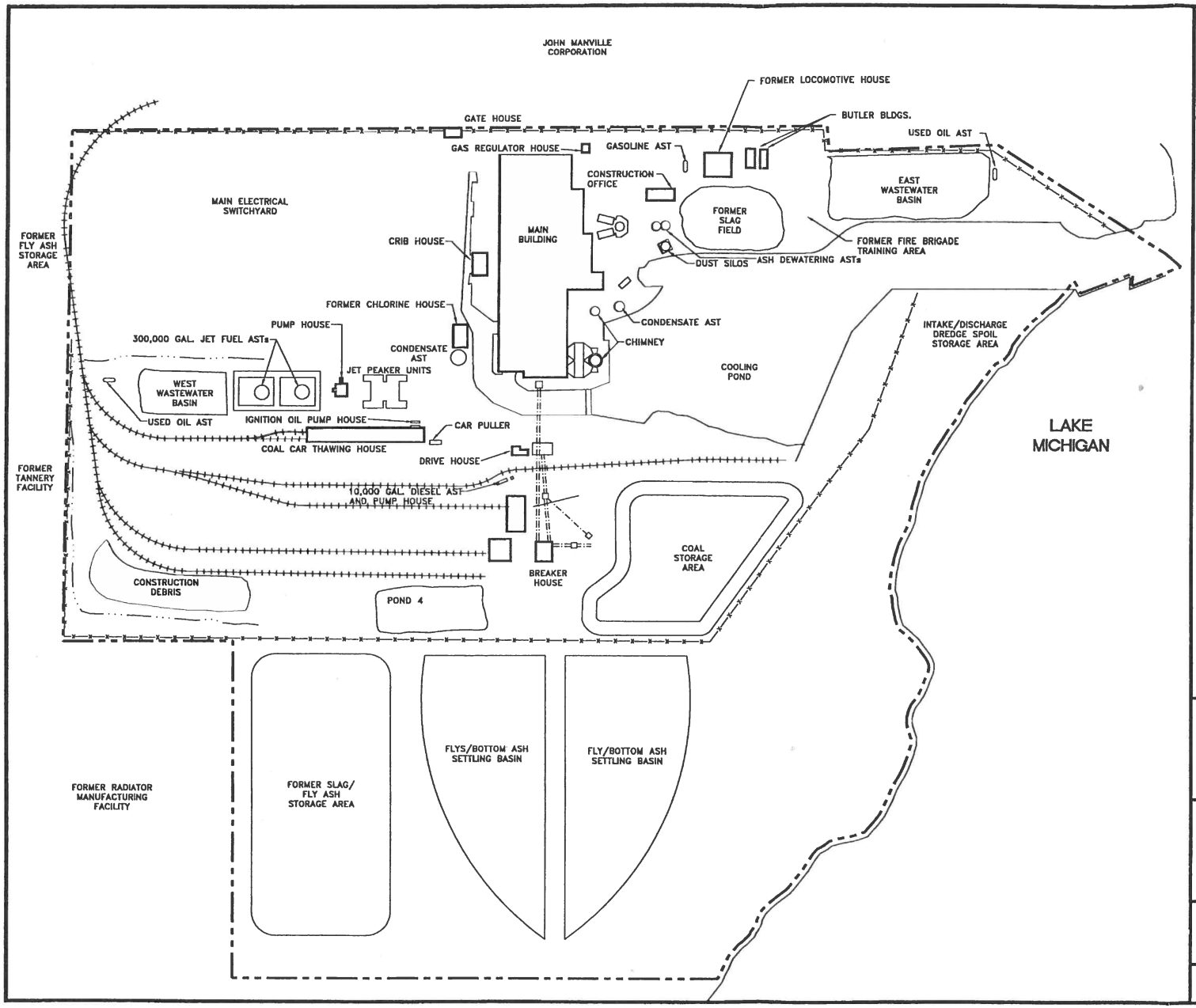
COMMONWEALTH EDISON COMPANY

November 1998 File No: 1801-023-610

FIGURE 1

ENSR

MWG13-15_45813



LEGEND:

- PROPERTY BOUNDARY
- RAILROAD LINE
- FENCE
- CONVEYOR LINE
- DRAINAGE DITCH

Note:
- All dimensions and locations are approximate.

Source:
- ENSR field observations.

Dwg No: WAUKEGANSP1

WAUKEGAN GENERATING STATION
10 GREENLAND AVENUE
WAUKEGAN, ILLINOIS

COMMONWEALTH EDISON COMPANY

November 1998 File No: 1801-023-610

SITE PLAN

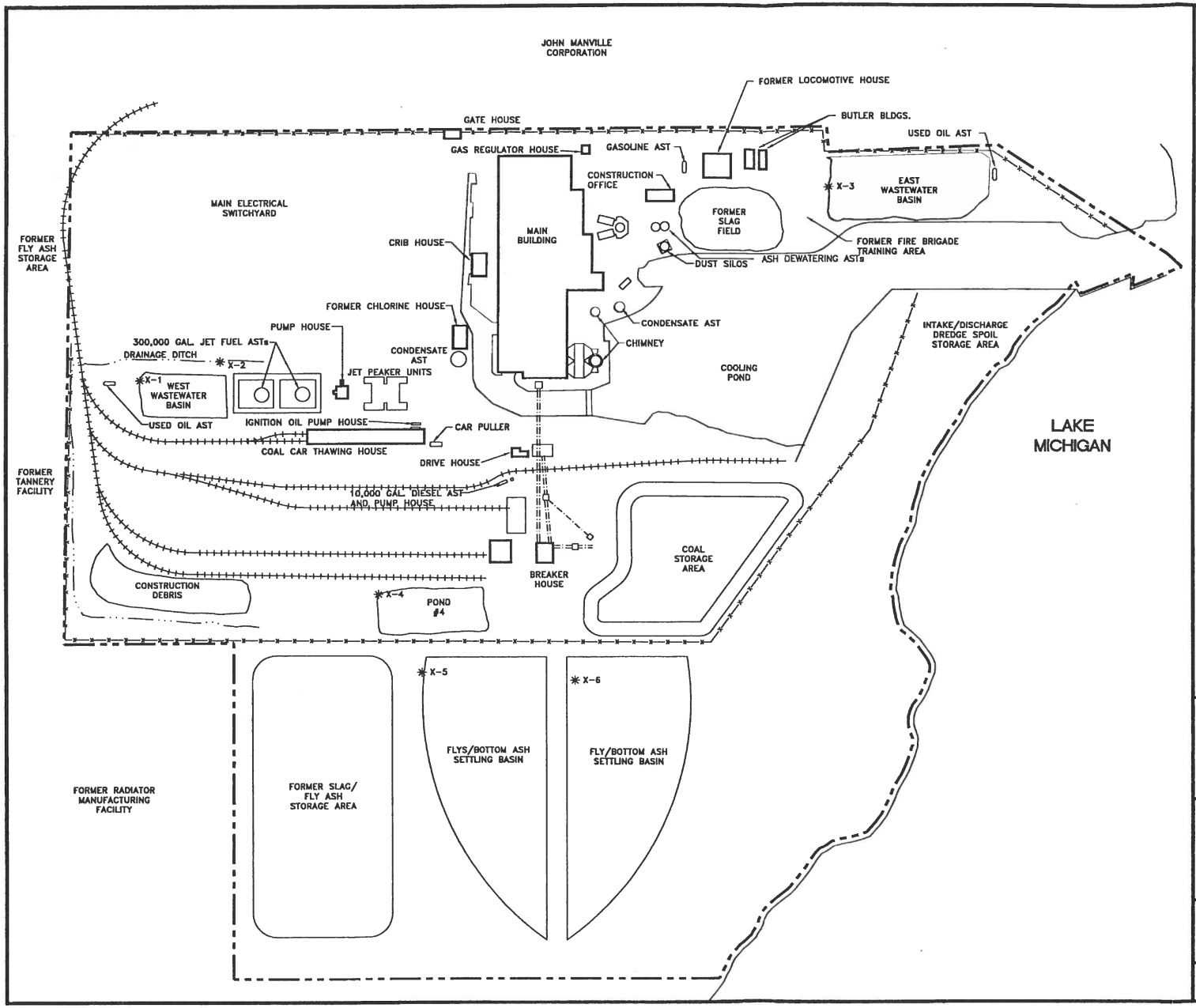
N

NOT TO SCALE

FIGURE 2

ENSR

MWG13-15_45814



LEGEND:

- PROPERTY BOUNDARY
- RAILROAD LINE
- FENCE
- CONVEYOR LINE
- X-1 SEDIMENT SAMPLE

Note:
- All dimensions and locations are approximate.

Source:
- ENSR field observations.

Dwg No: WAUKEGANSS1

WAUKEGAN GENERATING STATION
10 GREENLAND AVENUE
WAUKEGAN, ILLINOIS

COMMONWEALTH EDISON COMPANY

November 1998 File No: 1801-023-610

SEDIMENT SAMPLING SITE PLAN

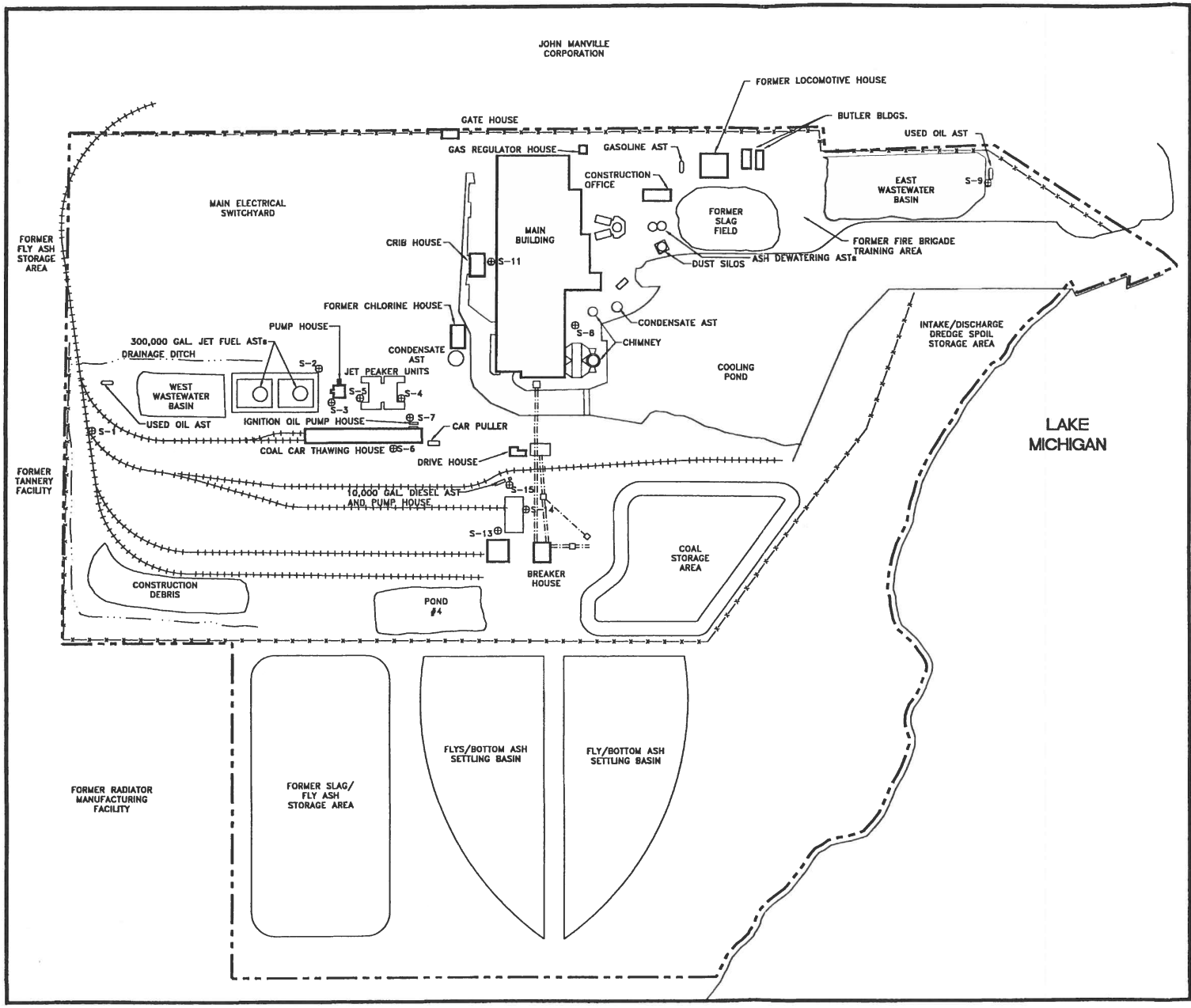
N

NOT TO SCALE

FIGURE 3

ENSR

MWG13-15_45815



LEGEND:

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

Note:
- All dimensions and locations are approximate.

Source:
- ENSR field observations.

Dwg No: WAUKEGANSS2

WAUKEGAN GENERATING STATION
10 GREENLAND AVENUE
WAUKEGAN, ILLINOIS

COMMONWEALTH EDISON COMPANY

November 1998 File No: 1801-023-610

SURFACE SOIL SAMPLING SITE PLAN

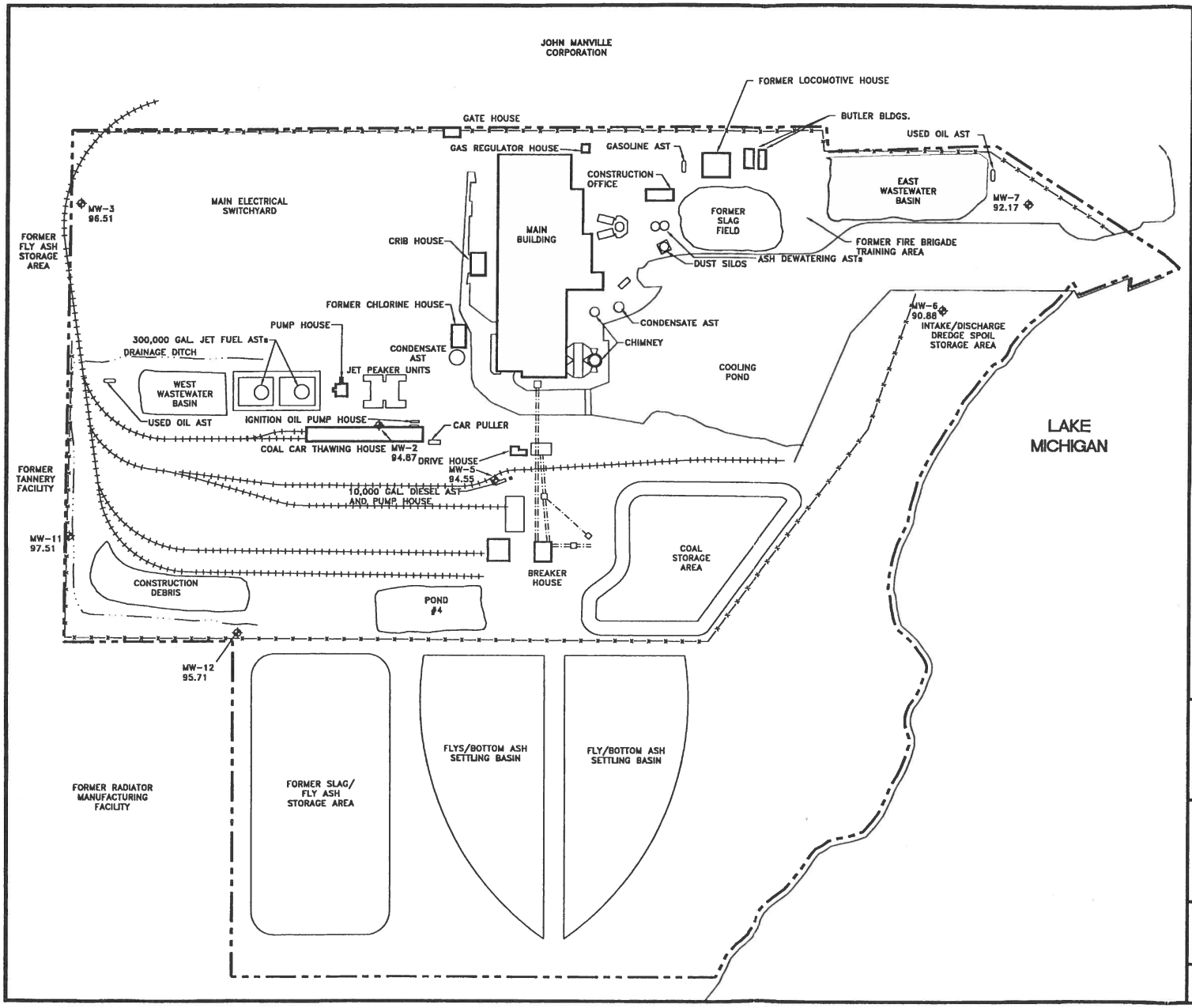
N

NOT TO SCALE

FIGURE 4

ENSR

MWG13-15_45816



LEGEND:

- PROPERTY BOUNDARY
- RAILROAD LINE
- FENCE
- CONVEYOR LINE
- MW-2 94.87 — MONITORING WELL WITH GROUND WATER ELEVATION IN FEET.

Note:
- All dimensions and locations are approximate.

Source:
- ENSR field observations.

Dwg No: WAUKEGANGW1

WAUKEGAN GENERATING STATION
10 GREENLAND AVENUE
WAUKEGAN, ILLINOIS

COMMONWEALTH EDISON COMPANY

November 1998 File No: 1801-023-610

GROUNDWATER ELEVATION MAP

N

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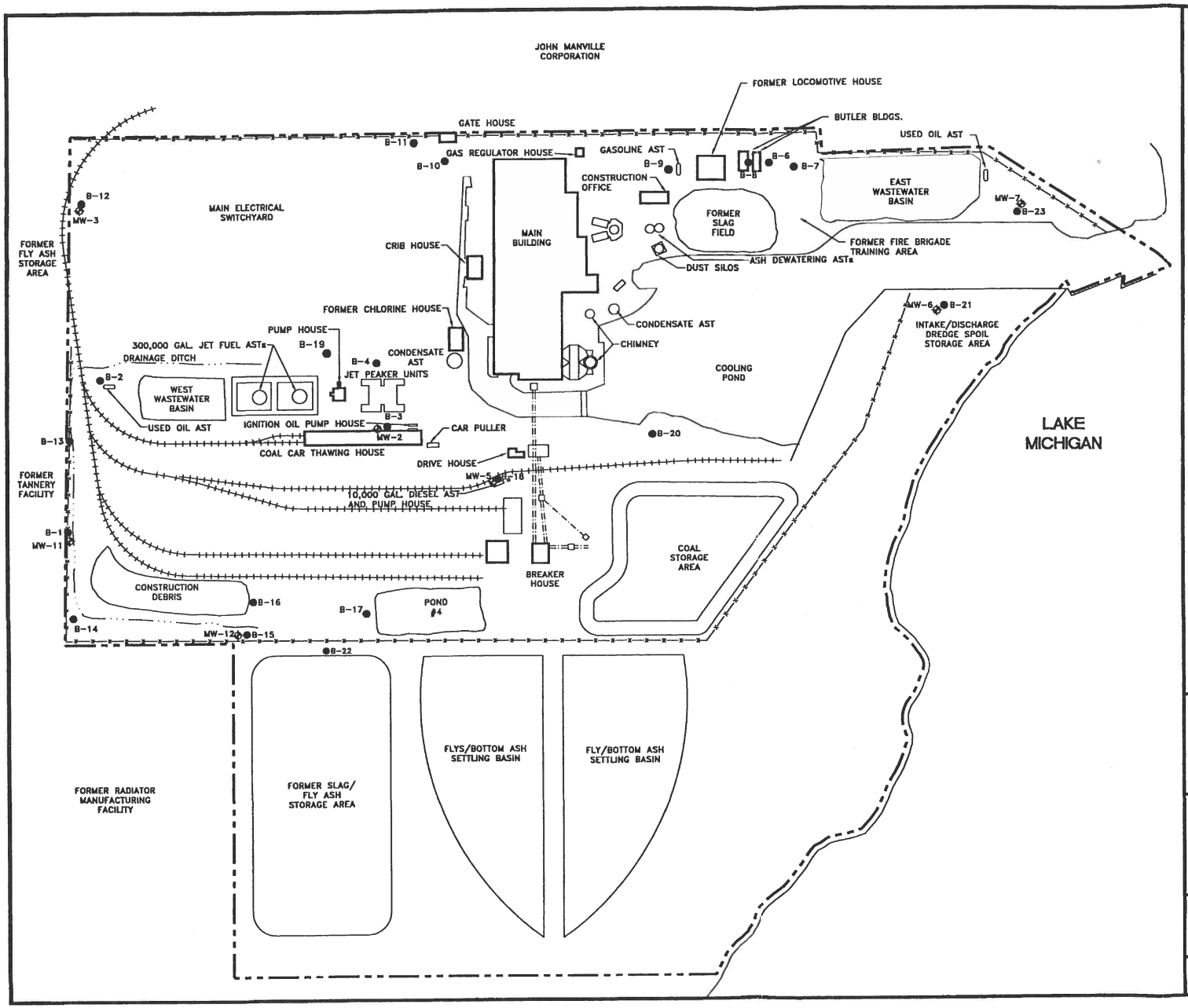
FIGURE 6

ENSR

MWG13-15_45818



LEGEND:

- PROPERTY BOUNDARY
- RAILROAD LINE
- FENCE
- CONVEYOR LINE
- MW-2 MONITORING WELL
- B-1 SOIL BORING

Note:
- All dimensions and locations are approximate.

Source:
- ENSR field observations.

Dwg No: WAUKEGANSB1

WAUKEGAN GENERATING STATION
10 GREENLAND AVENUE
WAUKEGAN, ILLINOIS

COMMONWEALTH EDISON COMPANY

November 1998 File No: 1801-023-610

SOIL BORING/ MONITORING WELL SITE PLAN

N

NOT TO SCALE

FIGURE 5

ENSR

MWG13-15_45817

A

MWG13-15_45819

APPENDIX A

Boring Logs and Monitoring Well Construction Diagrams

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

Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

r:chhicago\project\h171\comed\fossil\waukegan\phase2.doc

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Log of Borehole B-1

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
ft / m		Ground Surface					
0 / 0		2' Light brown, medium grain, sand 2' Coal	1	GP	100	< 1	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
4 / 1		End of Borehole					
8 / 2							
12 / 3							
15 / 4							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-2

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
0 - 4 ft		Light brown sand with gravel	1	GP	80	11.5	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
4 / 1		End of Borehole					
15 / 4							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-3

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
		Dark brown-black, sand, saturated	1	GP	100	18.7	0 - 4 PNA/BETX/pH/PCBs/ RCRA Metals
			2	SS	100	15.6	
8 / 2		End of Borehole					
15 / 4							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/27/98**

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Log of Borehole B-4

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
1 2 3 / 1 4		1.5' Gravel 6" Clay and silt, wet with gravel 2' Orange black coal with sand	1	GP	100	4.2	0 - 4 PNA/BETX/pH/PCBs/ RCRA Metals
5 6 7 / 2 8 9 10 / 3 11 12 13 / 4 14 15		End of Borehole					

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/26/98**

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Log of Borehole B-6

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
ft m		Ground Surface					
0 0		.5' Gravel .5' Coal					
1		3' Light brown sand, medium grained, wet	1	GP	100	9.5	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
2							
3 1							
4		End of Borehole					
5							
6 2							
7							
8							
9							
10 3							
11							
12							
13 4							
14							
15							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-7

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
1 2 3 / 1 4		1' Coal 2.5' Light brown, sand, medium grained, wet .5' Gray sand, medium grained, wet	1	GP	100	5.8	0 - 4 PNAs/BETX/pH/PCBs RCRA Metals
5 6 7 / 2 8 9 10 / 3 11 12 13 / 4 14 15		End of Borehole					

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-8

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
ft m		Ground Surface					
0 0		Coal to 2'					
1		2' Light brown, sand, moist to wet, with fines	1	GP	100	9.7	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
2							
3 1							
4		End of Borehole					
5							
6							
7 2							
8							
9							
10 3							
11							
12							
13 4							
14							
15							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-9

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
ft m		Ground Surface					
0 0							
1		Coal to 3'					0 - 4
2		1' Light brown, sand, wet	1	GP	100	10.8	PNAS/BETX/PCBs
3 1							RCRA Metals
4		End of Borehole					
5							
6 2							
7							
8							
9							
10 3							
11							
12							
13 4							
14							
15							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-10

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
1 2 3 / 1		Coal to 2' 6" Brown sandy clay 1' Light brown sand, fine to medium grained	1	GP	80	9.0	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
4 5 6 7 / 2		Light brown sand, fine grained, wet with 1" gravel seam at 7'	2	SS	75	9.6	
8 9 10 / 3		End of Borehole					
11 12 13 / 4 14 15							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-11

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
		6" Gravel 2.5' Coal slag with sand	1	GP	100	8.5	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1 /							
2 /							
3 / 1							
4 /		End of Borehole					
5 /							
6 /							
7 / 2							
8 /							
9 /							
10 / 3							
11 /							
12 /							
13 / 4							
14 /							
15 /							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-12

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
		Borehole not logged.	1	GP	100	12.3	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
8 / 2		End of Borehole					

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/28/98**

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Log of Borehole B-13

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
ft m		Ground Surface					
0 0							
1							
2		Coal with fine gravel bottom 1.5' wet	1	GP	60	1.4	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
3 1							
4		End of Borehole					
5							
6							
7 2							
8							
9							
10 3							
11							
12							
13 4							
14							
15							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/26/98**

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Log of Borehole B-14

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
ft m		Ground Surface					
0 0							
1		3' Wet coal Sand and gravel saturated	1	GP	100	1.4	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
2							
3 1							
4		End of Borehole					
5							
6							
7 2							
8							
9							
10 3							
11							
12							
13 4							
14							
15							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/26/98**

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Log of Borehole B-15

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
1 2 3 / 1 4		2' Coal 2' Light brown, medium grain, sand, wet	1	GP	100	< 1	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
5 6 7 / 2 8 9 10 / 3 11 12 13 / 4 14 15		End of Borehole					

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-16

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
1		Coal/Slag	1	GP	50	2.3	0 - 2 PNAs/BETX/pH/PCBs/ RCRA Metals
2		End of Borehole					
3 / 1							
4							
5							
6 / 2							
7							
8							
9							
10 / 3							
11							
12							
13 / 4							
14							
15							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/26/98**

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Log of Borehole B-17

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
0 - 4		1' Coal 1' Light brown-black, medium grain, sand 2' Coal	1	GP	100	5.4	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
4		End of Borehole					

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 (ft)

0 1 2 3 4 (m)

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/29/98**

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Log of Borehole B-18

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
ft m		Ground Surface					
0 0		Brown-black sand, with odor					
1		saturated	1	GP	100	123	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
2							
3 1							
4		End of Borehole					
5							
6							
7 2							
8							
9							
10 3							
11							
12							
13 4							
14							
15							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/27/98**

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Log of Borehole B-19

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
1 2 3 / 1		1' Loose sand and coal 1' Rusty orange caol consolidated Coal, moist to wet	1	GP	75	19.3	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
4 5 6 / 2 7 8 9 10 / 3 11 12 13 / 4 14 15		End of Borehole					

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/26/98**

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Log of Borehole B-20

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
ft m		Ground Surface					
		Black coal consolidated .5' Sand and gravel seam at 2.5' Same with silt, wet at 3.5'	1	GP	100	19.4	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
		Black coal, consolidated, moist	2	GP	50	16.0	
		End of Borehole					

0 0
1
2
3 1
4
5
6
7 2
8
9
10 3
11
12
13 4
14
15

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/26/98**

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Log of Borehole B-21

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
ft / m		Ground Surface					
		Sand, medium grained, dry to moist, loose 1' Sand, medium grained, wet	1	GP	80	16.4	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
		Light brown-gray, sand, medium grained, wet	2	GP	20	20.3	
		End of Borehole					

0 ft / 0 m; 1 ft / 1 m; 2 ft / 2 m; 3 ft / 3 m; 4 ft / 4 m; 5 ft; 6 ft; 7 ft; 8 ft; 9 ft; 10 ft; 11 ft; 12 ft; 13 ft; 14 ft; 15 ft

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/26/98**

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Log of Borehole B-22

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
0 - 1		Coal and gray coal ash	1	GP	30	< 1	0 - 2 PNAs/BETX/pH/PCBs/ RCRA Metals
		End of Borehole					

1 m = 3 ft; 2 m = 6 ft; 3 m = 10 ft; 4 m = 13 ft

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/26/98**

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Log of Borehole B-23

Project No:1801-023-610

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Waukegan Power Station

Geologist: BB

SUBSURFACE PROFILE			SAMPLE				
Depth (ft / m)	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	Lab Analysis
0 / 0		Ground Surface					
0 - 4 ft		Light brown sand, loose, with gravel 2' Same, wet	1	GP	100	12.4	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
4 / 1		End of Borehole					
8 / 2							
12 / 3							
15 / 4							

Drilled By:Fox Drilling

Drill Method: **Geoprobe**

Drill Date: **10/27/98**

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

Sheet: 1 of 1

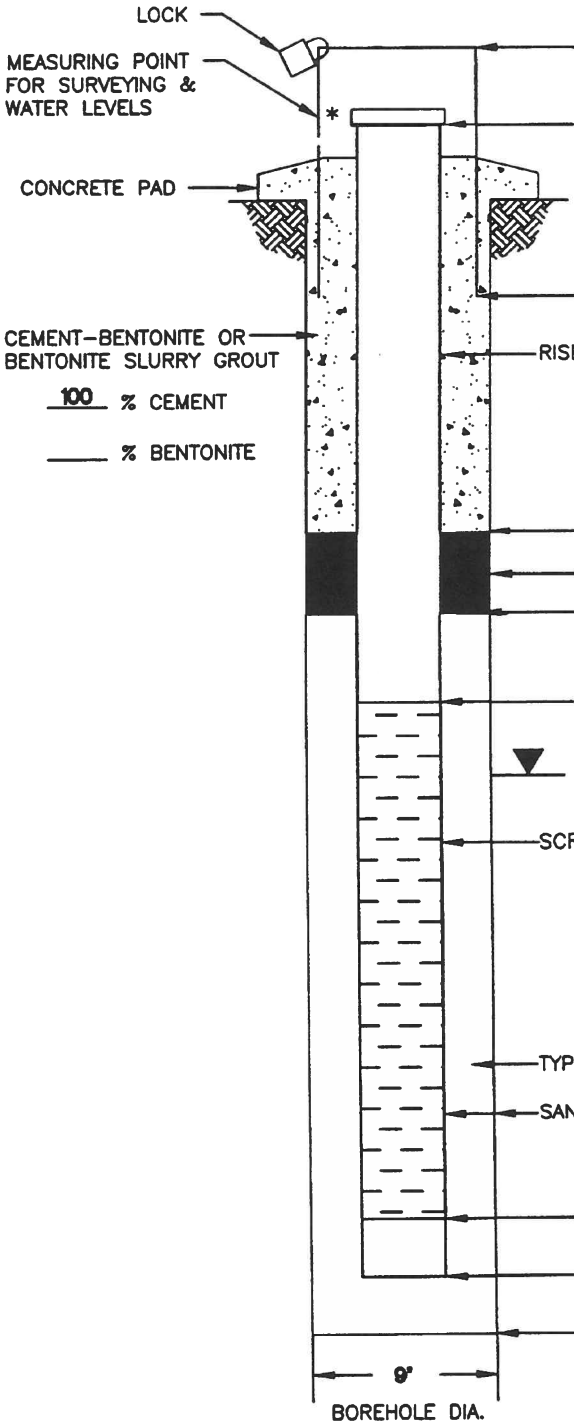
Project No: 1901-023-610 Client: Commonwealth Edison Site: Waukegan Power Station

WELL No: MW-2/B-3

Well Location: S. of Peakers and North of Coal Car Thawing Date Installed: 10/27/98

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

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION (NGVD)
TOP OF STEEL GUARD	0.00	96.98
TOP OF RISER PIPE	0.40	96.58
GROUND SURFACE (G.S.)	0.00	96.98
BOTTOM OF STEEL GUARD	0.67	96.31
RISER PIPE: LENGTH 2.6; INSIDE DIAMETER (ID) 2.07; TYPE OF MATERIAL PVC Sch. 40		
TOP OF BENTONITE SEAL	1.0	95.98
BENTONITE SEAL THICKNESS	2.0	94.98
TOP OF SAND	3.0	93.98
TOP OF SCREEN	3.0	93.98
STABILIZED WATER LEVEL	1.71 (2.11 FROM G.S.)	94.87
SCREEN: LENGTH 5.0; INSIDE DIAMETER (ID) 2.07"; SLOT SIZE 0.010; TYPE OF MATERIAL PVC Sch.40		
TYPE/SIZE OF SAND Otz.#5		
SAND PACK THICKNESS 3.0"		
BOTTOM OF SCREEN	7.83	89.15
BOTTOM OF TAILPIPE LENGTH 2"	7.83	89.15
BOTTOM OF BOREHOLE	8.0	88.98

* Describe Measuring Point

NORTH SIDE

Approved: _____ Signature

10/27/98 Date

ENSR™

MWG13-15_45843

Project No: 1901-023-610 Client: Commonwealth Edison Site: Waukegan Power Station **WELL No: MW-3/B-12**

Well Location: NW corner of property, under High Tension Wires Date Installed: 10/28/98

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

MONITORING WELL CONSTRUCTION DETAIL

		DEPTH FROM G.S. (feet)	ELEVATION (NGVD)
TOP OF STEEL GUARD		0.00	98.19
TOP OF RISER PIPE		0.38	97.81
GROUND SURFACE (G.S.)		0.00	98.19
BOTTOM OF STEEL GUARD		0.67	97.52
RISER PIPE:			
LENGTH	2.62		
INSIDE DIAMETER (ID)	2.07		
TYPE OF MATERIAL	PVC Sch. 40		
TOP OF BENTONITE SEAL		1.0	97.19
BENTONITE SEAL THICKNESS		2.0	96.19
TOP OF SAND		3.0	95.19
TOP OF SCREEN		3.0	95.19
STABILIZED WATER LEVEL		1.3 (1.68 FROM G.S.)	96.51
SCREEN:			
LENGTH	5.0		
INSIDE DIAMETER (ID)	2.07"		
SLOT SIZE	0.010		
TYPE OF MATERIAL	PVC Sch.40		
TYPE/SIZE OF SAND	Otz.#5		
SAND PACK THICKNESS	3.0"		
BOTTOM OF SCREEN		7.83	90.36
BOTTOM OF TAILPIPE LENGTH	2"	7.83	90.36
BOTTOM OF BOREHOLE		8.0	90.19

* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/28/98
Date

ENSR™

MWG13-15_45844

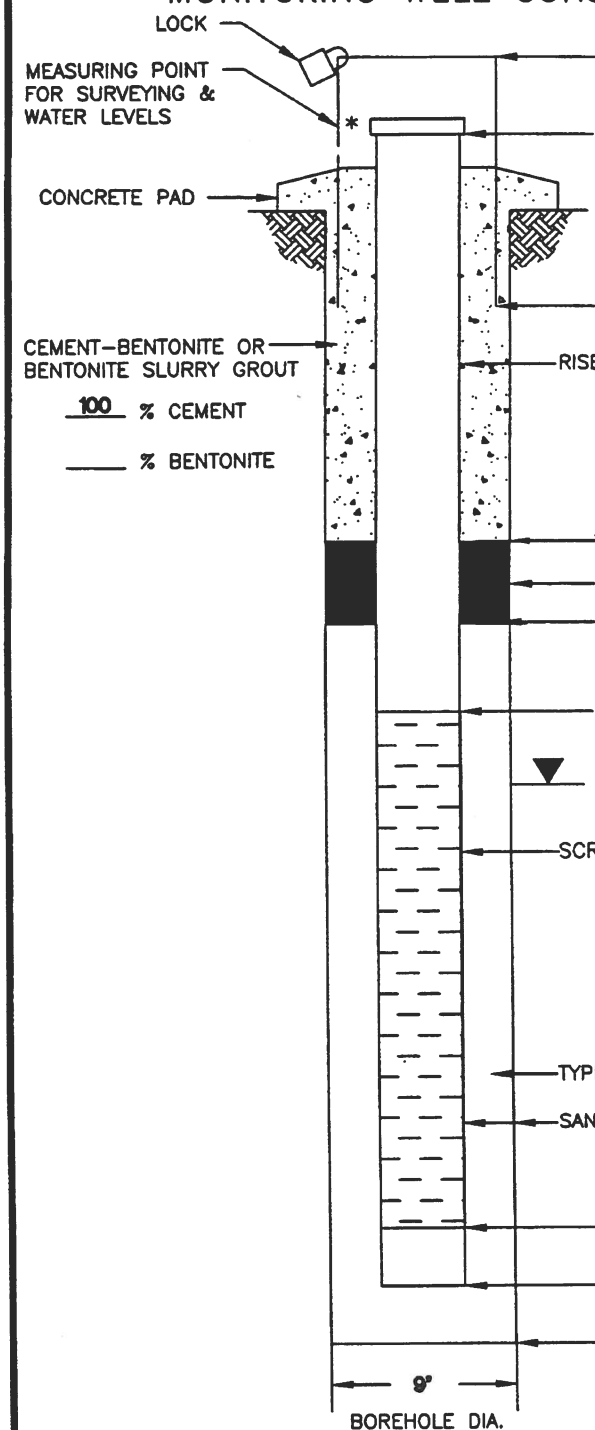
Project No: 1801-023-610 Client: Commonwealth Edison Site: Waukegan Power Station

WELL No: MW-5/B-18

Well Location: Near Coal Hopper Control Building, near AST Date Installed: 10/27/98

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

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION (NGVD)
TOP OF STEEL GUARD	0.00	98.56
TOP OF RISER PIPE	0.32	98.24
GROUND SURFACE (G.S.)	0.00	98.56
BOTTOM OF STEEL GUARD	0.67	97.89
RISER PIPE: LENGTH 2.68; INSIDE DIAMETER (ID) 2.07; TYPE OF MATERIAL PVC Sch. 40		
TOP OF BENTONITE SEAL	1.0	97.56
BENTONITE SEAL THICKNESS	2.0	96.56
TOP OF SAND	3.0	95.56
TOP OF SCREEN	3.0	95.56
STABILIZED WATER LEVEL	3.69 (4.01 FROM G.S.)	94.55
SCREEN: LENGTH 5.0; INSIDE DIAMETER (ID) 2.07"; SLOT SIZE 0.010; TYPE OF MATERIAL PVC Sch.40		
TYPE/SIZE OF SAND Otz.#5		
SAND PACK THICKNESS 3.0"		
BOTTOM OF SCREEN	7.83	90.73
BOTTOM OF TAILPIPE LENGTH 2"	7.83	90.73
BOTTOM OF BOREHOLE	8.0	90.56

* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/27/98
Date

ENSR™

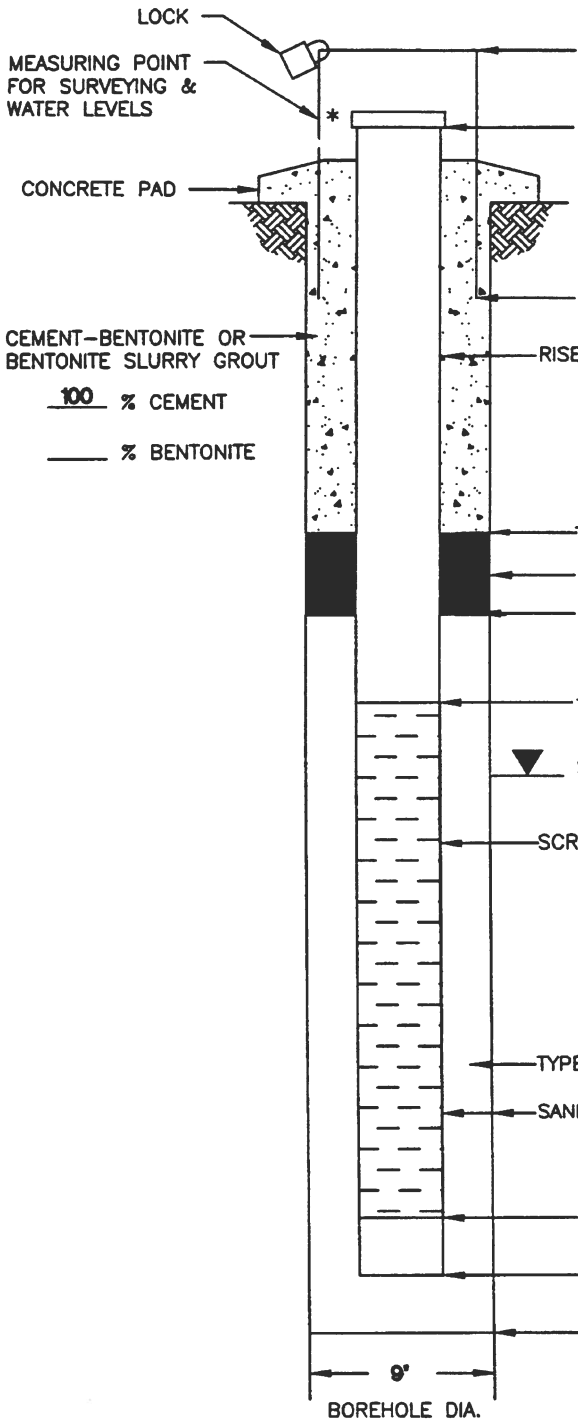
MWG13-15_45845

Project No: 1901-023-610 Client: Commonwealth Edison Site: Waukegan Power Station **WELL No: MW-6/B-21**

Well Location: East of Cooling Pond near Beach Date Installed: 10/27/98

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

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION (NGVD)
TOP OF STEEL GUARD	0.00	98.65
TOP OF RISER PIPE	0.29	98.36
GROUND SURFACE (G.S.)	0.00	98.65
BOTTOM OF STEEL GUARD	0.67	97.98
RISER PIPE:		
LENGTH: 4.71		
INSIDE DIAMETER (ID): 2.07		
TYPE OF MATERIAL: PVC Sch. 40		
TOP OF BENTONITE SEAL	1.0	97.65
BENTONITE SEAL THICKNESS	3.0	96.15
TOP OF SAND	4.0	94.65
TOP OF SCREEN	5.0	93.65
STABILIZED WATER LEVEL	7.48 (7.69 FROM G.S.)	90.96
SCREEN:		
LENGTH: 4.0		
INSIDE DIAMETER (ID): 2.07"		
SLOT SIZE: 0.010		
TYPE OF MATERIAL: PVC Sch.40		
TYPE/SIZE OF SAND: Otz.#5		
SAND PACK THICKNESS: 3.0"		
BOTTOM OF SCREEN	9.83	88.82
BOTTOM OF TAILPIPE LENGTH: 2"	9.83	88.82
BOTTOM OF BOREHOLE	10	88.65

* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/27/98
Date

ENSR™

MWG13-15_45846

Project No: 1801-023-610 Client: Commonwealth Edison Site: Waukegan Power Station

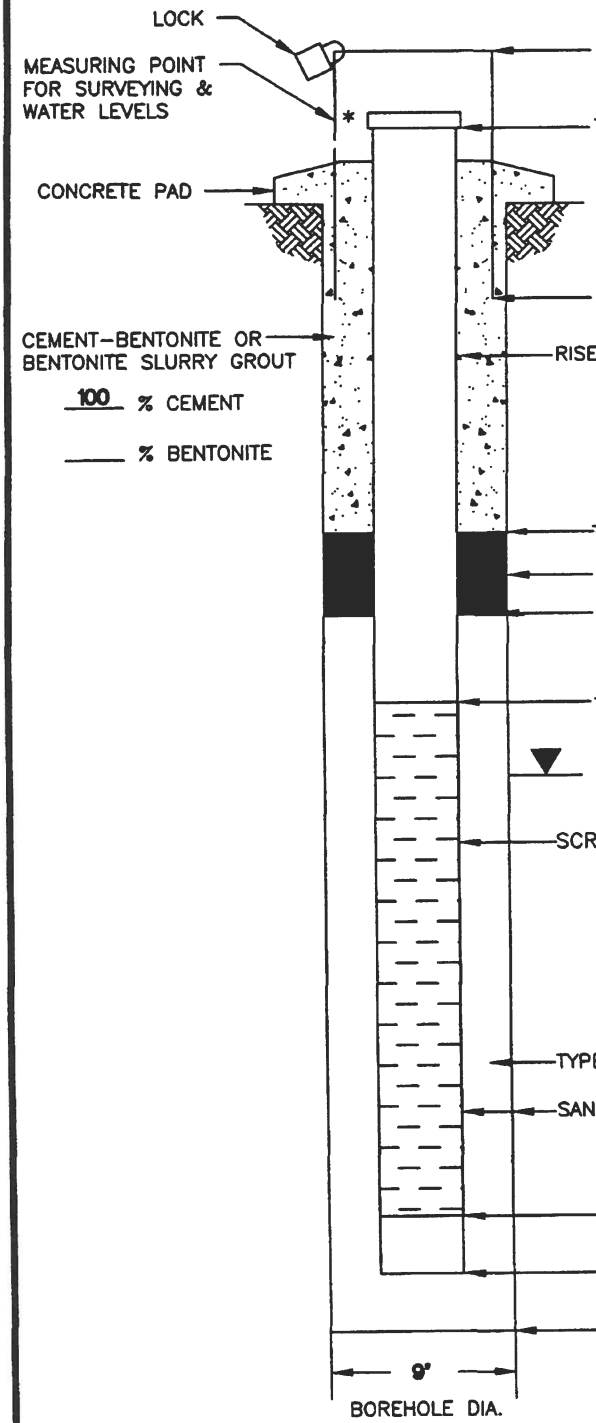
WELL No: MW-7/B-23

Well Location: East of Waste Oil in Fishing Area

Date Installed: 10/27/98

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

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION (NGVD)
TOP OF STEEL GUARD	0.00	96.66
TOP OF RISER PIPE	0.24	96.42
GROUND SURFACE (G.S.)	0.00	96.66
BOTTOM OF STEEL GUARD	0.67	95.99
RISER PIPE: LENGTH 4.26; INSIDE DIAMETER (ID) 2.07; TYPE OF MATERIAL PVC Sch. 40		
TOP OF BENTONITE SEAL	1.0	95.66
BENTONITE SEAL THICKNESS	3.5	93.91
TOP OF SAND	4.5	92.16
TOP OF SCREEN	5.0	91.66
STABILIZED WATER LEVEL	4.25 (4.49 FROM G.S.)	92.17
SCREEN: LENGTH 5.0; INSIDE DIAMETER (ID) 2.07"; SLOT SIZE 0.010; TYPE OF MATERIAL PVC Sch.40		
TYPE/SIZE OF SAND	Otz.#5	
SAND PACK THICKNESS	3.0"	
BOTTOM OF SCREEN	9.83	86.83
BOTTOM OF TAILPIPE LENGTH 2"	9.83	86.83
BOTTOM OF BOREHOLE	10	86.66

* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/27/98
Date

ENSR™

MWG13-15_45847

B

MWG13-15_45848

APPENDIX B

Analytical Reports

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

Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

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

11/10/1998

NET Job Number: 98.13879

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-Waukegan; 1801-023-610

Sample Number	Sample Description	Date Taken	Date Received
499912	B21 (0-4)	10/26/1998	10/27/1998
499913	B20 (0-4)	10/26/1998	10/27/1998
499914	B19 (0-4)	10/26/1998	10/27/1998
499915	B4 (0-4)	10/26/1998	10/27/1998
499916	B2 (0-4)	10/26/1998	10/27/1998
499917	B13 (0-4)	10/26/1998	10/27/1998
499918	B14 (0-4)	10/26/1998	10/27/1998
499919	B16 (0-4)	10/26/1998	10/27/1998
499920	B22 (0-2)	10/26/1998	10/27/1998
499921	S1	10/26/1998	10/27/1998

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

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

Approved by:

Mary Pearson
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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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

11/10/1998

Sample No. : 499912

NET Job No.: 98.13879

Sample Description: B21 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 10:15
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	9.34	units	10/30/1998	0.10	nwg		188	SW 9045B
Solids, Total	95.0	%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	2.5	mg/kg dw	11/06/1998	0.53	mhp	235	672	SW 7060
Barium, ICP	7.6	mg/kg dw	11/06/1998	1.1	jtt	1165	2188	SW 6010B
Cadmium, ICP	<0.53	mg/kg dw	11/06/1998	0.53	jtt	1165	2174	SW 6010B
Chromium, ICP	5.4	mg/kg dw	11/06/1998	2.1	jtt	1165	2159	SW 6010B
Lead, ICP	7.6	mg/kg dw	11/06/1998	4.2	jtt	1165	2397	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	11/02/1998	0.042	sep	665	769	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	11/07/1998	0.26	mhp	235	561	SW 7740
Silver, AA	<2.1	mg/kg dw	11/02/1998	2.1	sep	492	569	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.005	mg/kg dw	11/03/1998	0.005	jap		74	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	11/03/1998	0.005	jap		74	SW 8260A
Toluene	<0.005	mg/kg dw	11/03/1998	0.005	jap		74	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	11/03/1998	0.005	jap		74	SW 8260A
Dibromofluoromethane (Surr)	98.8	%	11/03/1998	81-129	jap		74	SW 8260A
Toluene-d8 (Surr)	85.0	%	11/03/1998	74-129	jap		74	SW 8260A
4-Bromofluoromethane (Surr)	85.4	%	11/03/1998	70-130	jap		74	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/06/1998		wna	770		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS								
Acenaphthene	<0.021	mg/kg dw	11/09/1998	0.021	keh	770	1833	SW 8310
Acenaphthylene	<0.021	mg/kg dw	11/09/1998	0.021	keh	770	1833	SW 8310
Anthracene	<0.042	mg/kg dw	11/09/1998	0.042	keh	770	1833	SW 8310
Benzo(a)anthracene	0.043	mg/kg dw	11/09/1998	0.0027	keh	770	1833	SW 8310
Benzo(b)fluoranthene	0.038	mg/kg dw	11/09/1998	0.0038	keh	770	1833	SW 8310

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499912

NET Job No.: 98.13879

Sample Description: B21 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 10:15
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	0.022	mg/kg dw	11/09/1998	0.0036	keh	770	1833	SW 8310
Benzo(a)pyrene	0.035	mg/kg dw	11/09/1998	0.0048	keh	770	1833	SW 8310
Benzo(ghi)perylene	<0.042	mg/kg dw	11/09/1998	0.042	keh	770	1833	SW 8310
Chrysene	0.034	mg/kg dw	11/09/1998	0.03	keh	770	1833	SW 8310
Dibenzo(a,h)anthracene	<0.006	mg/kg dw	11/09/1998	0.006	keh	770	1833	SW 8310
Fluoranthene	0.085	mg/kg dw	11/09/1998	0.021	keh	770	1833	SW 8310
Fluorene	<0.021	mg/kg dw	11/09/1998	0.021	keh	770	1833	SW 8310
Indeno(1,2,3-cd)pyrene	0.024	mg/kg dw	11/09/1998	0.0091	keh	770	1833	SW 8310
Naphthalene	<0.026	mg/kg dw	11/09/1998	0.026	keh	770	1833	SW 8310
Phenanthrene	0.051	mg/kg dw	11/09/1998	0.042	keh	770	1833	SW 8310
Pyrene	0.071	mg/kg dw	11/09/1998	0.021	keh	770	1833	SW 8310
Surr: p-Terphenyl	107.1	%	11/09/1998	43-125	keh	770	1833	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	380		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.042	mg/kg dw	11/05/1998	0.042	tls	380	52	SW 8082
PCB-1221	<0.042	mg/kg dw	11/05/1998	0.042	tls	380	52	SW 8082
PCB-1232	<0.042	mg/kg dw	11/05/1998	0.042	tls	380	52	SW 8082
PCB-1242	<0.042	mg/kg dw	11/05/1998	0.042	tls	380	52	SW 8082
PCB-1248	0.072	mg/kg dw	11/06/1998	0.042	tls	380	53	SW 8082
PCB-1254	<0.042	mg/kg dw	11/05/1998	0.042	tls	380	52	SW 8082
PCB-1260	<0.042	mg/kg dw	11/05/1998	0.042	tls	380	52	SW 8082
Decachlorobiphenyl (Surr)	96.0	%	11/05/1998	NA	tls	380	52	SW 8082
2,4,5,6-TCMX (Surr)	86.0	%	11/05/1998	NA	tls	380	52	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499913

NET Job No.: 98.13879

Sample Description: B20 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 10:52
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.03		units	10/30/1998	0.10	nwg		188	SW 9045B
Solids, Total	83.2		%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	25		mg/kg dw	11/06/1998	0.60	mhp	235	672	SW 7060
Barium, ICP	192		mg/kg dw	11/06/1998	1.2	jtt	1165	2188	SW 6010B
Cadmium, ICP	3.1		mg/kg dw	11/06/1998	0.60	jtt	1165	2174	SW 6010B
Chromium, ICP	59		mg/kg dw	11/06/1998	2.4	jtt	1165	2159	SW 6010B
Lead, ICP	48		mg/kg dw	11/06/1998	4.8	jtt	1165	2397	SW 6010B
Mercury, CVAA	0.053		mg/kg dw	11/02/1998	0.048	sep	665	769	SW 7471A
Selenium, GFAA	0.70		mg/kg dw	11/07/1998	0.30	mhp	235	561	SW 7740
Silver, AA	<2.4		mg/kg dw	11/02/1998	2.4	sep	492	569	SW 7760
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Toluene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Dibromofluoromethane (Surr)	98.4		%	11/03/1998	81-129	jap		75	SW 8260A
Toluene-d8 (Surr)	106.8		%	11/03/1998	74-129	jap		75	SW 8260A
4-Bromofluoromethane (Surr)	109.2		%	11/03/1998	70-130	jap		75	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			10/30/1998		btl	767		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.024		mg/kg dw	11/06/1998	0.024	keh	767	1830	SW 8310
Acenaphthylene	<0.024		mg/kg dw	11/06/1998	0.024	keh	767	1830	SW 8310
Anthracene	<0.048		mg/kg dw	11/06/1998	0.048	keh	767	1830	SW 8310
Benzo(a)anthracene	<0.66	MX	mg/kg dw	11/06/1998	0.0031	keh	767	1830	SW 8310
Benzo(b)fluoranthene	<0.017	MX	mg/kg dw	11/06/1998	0.0043	keh	767	1830	SW 8310

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499913

NET Job No.: 98.13879

Sample Description: B20 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 10:52
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.064	MX	mg/kg dw	11/06/1998	0.0041	keh	767	1830	SW 8310
Benzo(a)pyrene	<0.038	MX	mg/kg dw	11/06/1998	0.0055	keh	767	1830	SW 8310
Benzo(ghi)perylene	<0.048		mg/kg dw	11/06/1998	0.048	keh	767	1830	SW 8310
Chrysene	0.078		mg/kg dw	11/06/1998	0.04	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	<0.023	MX	mg/kg dw	11/06/1998	0.007	keh	767	1830	SW 8310
Fluoranthene	<0.12	MX	mg/kg dw	11/06/1998	0.024	keh	767	1830	SW 8310
Fluorene	<0.024		mg/kg dw	11/06/1998	0.024	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	<0.010		mg/kg dw	11/06/1998	0.010	keh	767	1830	SW 8310
Naphthalene	0.038		mg/kg dw	11/06/1998	0.030	keh	767	1830	SW 8310
Phenanthrene	0.097		mg/kg dw	11/06/1998	0.048	keh	767	1830	SW 8310
Pyrene	0.070		mg/kg dw	11/06/1998	0.024	keh	767	1830	SW 8310
Surr: p-Terphenyl	Masked			11/06/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/02/1998	COMPLETE	wna	380		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.048		mg/kg dw	11/04/1998	0.048	tls	380	57	SW 8082
PCB-1221	<0.048		mg/kg dw	11/04/1998	0.048	tls	380	57	SW 8082
PCB-1232	<0.048		mg/kg dw	11/04/1998	0.048	tls	380	57	SW 8082
PCB-1242	<0.048		mg/kg dw	11/04/1998	0.048	tls	380	57	SW 8082
PCB-1248	<0.048		mg/kg dw	11/04/1998	0.048	tls	380	57	SW 8082
PCB-1254	<0.048		mg/kg dw	11/04/1998	0.048	tls	380	57	SW 8082
PCB-1260	<0.048		mg/kg dw	11/04/1998	0.048	tls	380	57	SW 8082
Decachlorobipheny: Surr	70.0		%	11/04/1998	NA	tls	380	57	SW 8082
2,4,5,6-TCMX (Surr	75.0		%	11/04/1998	NA	tls	380	57	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-Lin Feng
ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

Sample No. : 499914

NET Job No.: 98.13879

Sample Description: B19 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 11:12
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.95	units	10/30/1998	0.10	nwg		188	SW 9045B
Solids, Total	92.5	%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	6.8	mg/kg dw	11/06/1998	0.54	mhp	235	672	SW 7060
Barium, ICP	238	mg/kg dw	11/06/1998	1.1	jtt	1165	2188	SW 6010B
Cadmium, ICP	0.93	mg/kg dw	11/06/1998	0.54	jtt	1165	2174	SW 6010B
Chromium, ICP	50	mg/kg dw	11/06/1998	2.2	jtt	1165	2159	SW 6010B
Lead, ICP	43	mg/kg dw	11/06/1998	4.3	jtt	1165	2397	SW 6010B
Mercury, CVAA	0.22	mg/kg dw	11/02/1998	0.043	sep	665	769	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/07/1998	0.27	mhp	235	561	SW 7740
Silver, AA	<2.2	mg/kg dw	11/02/1998	2.2	sep	492	569	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.005	mg/kg dw	11/02/1998	0.005	jap		73	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	11/02/1998	0.005	jap		73	SW 8260A
Toluene	<0.005	mg/kg dw	11/02/1998	0.005	jap		73	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	11/02/1998	0.005	jap		73	SW 8260A
Dibromofluoromethane (Surr)	95.8	%	11/02/1998	81-129	jap		73	SW 8260A
Toluene-d8 (Surr)	95.6	%	11/02/1998	74-129	jap		73	SW 8260A
4-Bromofluoromethane (Surr)	98.8	%	11/02/1998	70-130	jap		73	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/30/1998		btl	767		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS								
Acenaphthene	<0.022	mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Acenaphthylene	<0.022	mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Anthracene	<0.043	mg/kg dw	11/06/1998	0.043	keh	767	1830	SW 8310
Benzo(a)anthracene	0.067	mg/kg dw	11/06/1998	0.0028	keh	767	1830	SW 8310
Benzo(b)fluoranthene	0.030	mg/kg dw	11/06/1998	0.0039	keh	767	1830	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499914

NET Job No.: 98.13879

Sample Description: B19 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 11:12
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.024	MX	mg/kg dw	11/06/1998	0.0037	keh	767	1830	SW 8310
Benzo(a)pyrene	0.035		mg/kg dw	11/06/1998	0.0050	keh	767	1830	SW 8310
Benzo(ghi)perylene	<0.043		mg/kg dw	11/06/1998	0.043	keh	767	1830	SW 8310
Chrysene	0.056		mg/kg dw	11/06/1998	0.03	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	<0.0080	MX	mg/kg dw	11/06/1998	0.006	keh	767	1830	SW 8310
Fluoranthene	0.13		mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Fluorene	<0.022		mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	0.022		mg/kg dw	11/06/1998	0.0093	keh	767	1830	SW 8310
Naphthalene	0.082		mg/kg dw	11/06/1998	0.027	keh	767	1830	SW 8310
Phenanthrene	0.14		mg/kg dw	11/06/1998	0.043	keh	767	1830	SW 8310
Pyrene	0.078		mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Surr: p-Terphenyl	Masked			11/06/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/02/1998	COMPLETE	wna	380		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1221	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1232	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1242	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1248	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1254	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1260	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
Decachlorobiphenyl (Surr)	75.0		%	11/05/1998	NA	tls	380	57	SW 8082
2,4,5,6-TCMX (Surr)	85.0		%	11/05/1998	NA	tls	380	57	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499915

NET Job No.: 98.13879

Sample Description: B4 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 11:20
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.50		units	10/30/1998	0.10	nwg		189	SW 9045B
Solids, Total	83.8		%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	4.4		mg/kg dw	11/06/1998	0.60	mhp	235	672	SW 7060
Barium, ICP	16		mg/kg dw	11/06/1998	1.2	jtt	1165	2188	SW 6010B
Cadmium, ICP	<0.60		mg/kg dw	11/06/1998	0.60	jtt	1165	2174	SW 6010B
Chromium, ICP	31		mg/kg dw	11/06/1998	2.4	jtt	1165	2159	SW 6010B
Lead, ICP	13		mg/kg dw	11/06/1998	4.8	jtt	1165	2397	SW 6010B
Mercury, CVAA	<0.048		mg/kg dw	11/02/1998	0.048	sep	665	769	SW 7471A
Selenium, GFAA	<0.30		mg/kg dw	11/07/1998	0.30	mhp	235	561	SW 7740
Silver, AA	<2.4		mg/kg dw	11/02/1998	2.4	sep	492	569	SW 7760
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Toluene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Dibromofluoromethane (Surr)	98.4		%	11/03/1998	81-129	jap		75	SW 8260A
Toluene-d8 (Surr)	101.6		%	11/03/1998	74-129	jap		75	SW 8260A
4-Bromofluoromethane (Surr)	105.2		%	11/03/1998	70-130	jap		75	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	767		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.024		mg/kg dw	11/05/1998	0.024	keh	767	1830	SW 8310
Acenaphthylene	<0.024		mg/kg dw	11/05/1998	0.024	keh	767	1830	SW 8310
Anthracene	<0.12	MX	mg/kg dw	11/05/1998	0.048	keh	767	1830	SW 8310
Benzo(a)anthracene	0.041		mg/kg dw	11/05/1998	0.0031	keh	767	1830	SW 8310
Benzo(b)fluoranthene	0.012		mg/kg dw	11/05/1998	0.0043	keh	767	1830	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499915

NET Job No.: 98.13879

Sample Description: B4 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 11:20
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.0041		mg/kg dw	11/05/1998	0.0041	keh	767	1830	SW 8310
Benzo(a)pyrene	0.0092		mg/kg dw	11/05/1998	0.0055	keh	767	1830	SW 8310
Benzo(ghi)perylene	<0.048		mg/kg dw	11/05/1998	0.048	keh	767	1830	SW 8310
Chrysene	<0.04		mg/kg dw	11/05/1998	0.04	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	<0.007		mg/kg dw	11/05/1998	0.007	keh	767	1830	SW 8310
Fluoranthene	<0.074	MX	mg/kg dw	11/05/1998	0.024	keh	767	1830	SW 8310
Fluorene	<0.045	MX	mg/kg dw	11/05/1998	0.024	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	<0.010		mg/kg dw	11/05/1998	0.010	keh	767	1830	SW 8310
Naphthalene	0.26		mg/kg dw	11/05/1998	0.030	keh	767	1830	SW 8310
Phenanthrene	0.16		mg/kg dw	11/05/1998	0.048	keh	767	1830	SW 8310
Pyrene	<0.042	MX	mg/kg dw	11/05/1998	0.024	keh	767	1830	SW 8310
Surr: p-Terphenyl	Masked			11/05/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/02/1998	COMPLETE	wna	380		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.048		mg/kg dw	11/05/1998	0.048	tls	380	57	SW 8082
PCB-1221	<0.048		mg/kg dw	11/05/1998	0.048	tls	380	57	SW 8082
PCB-1232	<0.048		mg/kg dw	11/05/1998	0.048	tls	380	57	SW 8082
PCB-1242	<0.048		mg/kg dw	11/05/1998	0.048	tls	380	57	SW 8082
PCB-1248	<0.048		mg/kg dw	11/05/1998	0.048	tls	380	57	SW 8082
PCB-1254	<0.048		mg/kg dw	11/05/1998	0.048	tls	380	57	SW 8082
PCB-1260	<0.048		mg/kg dw	11/05/1998	0.048	tls	380	57	SW 8082
Decachlorobiphenyl (Surr)	78.0		%	11/05/1998	NA	tls	380	57	SW 8082
2,4,5,6-TCMX (Surr	80.0		%	11/05/1998	NA	tls	380	57	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-Lin Feng
ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

Sample No. : 499916

NET Job No.: 98.13879

Sample Description: B2 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 13:15
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.80		units	10/30/1998	0.10	nwg		188	SW 9045B
Solids, Total	92.4		%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	3.6		mg/kg dw	11/06/1998	0.54	mhp	235	672	SW 7060
Barium, ICP	22		mg/kg dw	11/06/1998	1.1	jtt	1165	2188	SW 6010B
Cadmium, ICP	<0.54		mg/kg dw	11/06/1998	0.54	jtt	1165	2174	SW 6010B
Chromium, ICP	8.3		mg/kg dw	11/06/1998	2.2	jtt	1165	2159	SW 6010B
Lead, ICP	14		mg/kg dw	11/06/1998	4.3	jtt	1165	2397	SW 6010B
Mercury, CVAA	0.083		mg/kg dw	11/02/1998	0.043	sep	665	769	SW 7471A
Selenium, GFAA	<0.27		mg/kg dw	11/07/1998	0.27	mhp	235	561	SW 7740
Silver, AA	<2.2		mg/kg dw	11/02/1998	2.2	sep	492	569	SW 7760
UST VOLATILES NON-AQUEOUS									
Benzene	<0.005		mg/kg dw	11/03/1998	0.005	jap		75	SW 8260A
Ethylbenzene	<0.005		mg/kg dw	11/03/1998	0.005	jap		75	SW 8260A
Toluene	<0.005		mg/kg dw	11/03/1998	0.005	jap		75	SW 8260A
Xylenes, Total	<0.005		mg/kg dw	11/03/1998	0.005	jap		75	SW 8260A
Dibromofluoromethane (Surr)	93.8		%	11/03/1998	81-129	jap		75	SW 8260A
Toluene-d8 (Surr)	96.8		%	11/03/1998	74-129	jap		75	SW 8260A
4-Bromofluoromethane (Surr)	101.4		%	11/03/1998	70-130	jap		75	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	767		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.022		mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Acenaphthylene	<0.022		mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Anthracene	<0.18	MX	mg/kg dw	11/05/1998	0.043	keh	767	1830	SW 8310
Benzo(a)anthracene	0.31		mg/kg dw	11/05/1998	0.0028	keh	767	1830	SW 8310
Benzo(b)fluoranthene	0.062		mg/kg dw	11/05/1998	0.0039	keh	767	1830	SW 8310

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

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499916

NET Job No.: 98.13879

Sample Description: B2 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 13:15
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.13	MX	mg/kg dw	11/05/1998	0.0037	keh	767	1830	SW 8310
Benzo(a)pyrene	0.11		mg/kg dw	11/05/1998	0.0050	keh	767	1830	SW 8310
Benzo(ghi)perylene	0.10		mg/kg dw	11/05/1998	0.043	keh	767	1830	SW 8310
Chrysene	0.34		mg/kg dw	11/05/1998	0.03	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	0.038		mg/kg dw	11/05/1998	0.006	keh	767	1830	SW 8310
Fluoranthene	<0.70	MX	mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Fluorene	<0.077	MX	mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	0.047		mg/kg dw	11/05/1998	0.0093	keh	767	1830	SW 8310
Naphthalene	0.34		mg/kg dw	11/05/1998	0.027	keh	767	1830	SW 8310
Phenanthrene	0.92		mg/kg dw	11/05/1998	0.043	keh	767	1830	SW 8310
Pyrene	0.48		mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Surr: p-Terphenyl	Masked			11/05/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/02/1998	COMPLETE	wma	380		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1221	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1232	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1242	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1248	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1254	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
PCB-1260	<0.043		mg/kg dw	11/05/1998	0.043	tls	380	57	SW 8082
Decachlorobiphenyl (Surr)	75.0		%	11/05/1998	NA	tls	380	57	SW 8082
2,4,5,6-TCMX (Surr)	88.0		%	11/05/1998	NA	tls	380	57	SW 8082

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

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499917

NET Job No.: 98.13879

Sample Description: B13 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 13:40
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.10	units	10/30/1998	0.10	nwg		189	SW 9045B
Solids, Total	77.4	%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	5.7	mg/kg dw	11/06/1998	0.65	mhp	235	672	SW 7060
Barium, ICP	76	mg/kg dw	11/06/1998	1.3	jtt	1165	2188	SW 6010B
Cadmium, ICP	1.3	mg/kg dw	11/06/1998	0.65	jtt	1165	2174	SW 6010B
Chromium, ICP	18	mg/kg dw	11/06/1998	2.6	jtt	1165	2159	SW 6010B
Lead, ICP	52	mg/kg dw	11/06/1998	5.2	jtt	1165	2397	SW 6010B
Mercury, CVAA	0.11	mg/kg dw	11/02/1998	0.052	sep	665	769	SW 7471A
Selenium, GFAA	<0.32	mg/kg dw	11/07/1998	0.32	mhp	235	561	SW 7740
Silver, AA	<2.6	mg/kg dw	11/03/1998	2.6	sep	493	570	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.006	mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Toluene	<0.006	mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Dibromofluoromethane (Surr)	90.8	%	11/03/1998	81-129	jap		75	SW 8260A
Toluene-d8 (Surr)	90.6	%	11/03/1998	74-129	jap		75	SW 8260A
4-Bromofluoromethane (Surr)	92.2	%	11/03/1998	70-130	jap		75	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	767		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<0.1	mg/kg dw	11/05/1998	0.026	keh	767	1830	SW 8310
Acenaphthylene	<0.1	mg/kg dw	11/05/1998	0.026	keh	767	1830	SW 8310
Anthracene	<0.3	mg/kg dw	11/05/1998	0.052	keh	767	1830	SW 8310
Benzo(a)anthracene	0.18	mg/kg dw	11/05/1998	0.0034	keh	767	1830	SW 8310
Benzo(b)fluoranthene	0.068	mg/kg dw	11/05/1998	0.0047	keh	767	1830	SW 8310

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499917

NET Job No.: 98.13879

Sample Description: B13 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 13:40
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.032	mg/kg dw	11/05/1998	0.0044	keh	767	1830	SW 8310
Benzo(a)pyrene	0.14	mg/kg dw	11/05/1998	0.0059	keh	767	1830	SW 8310
Benzo(ghi)perylene	<0.3	mg/kg dw	11/05/1998	0.052	keh	767	1830	SW 8310
Chrysene	<0.2	mg/kg dw	11/05/1998	0.04	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	<0.04	mg/kg dw	11/05/1998	0.008	keh	767	1830	SW 8310
Fluoranthene	<0.56	mg/kg dw	11/05/1998	0.026	keh	767	1830	SW 8310
Fluorene	<0.1	mg/kg dw	11/05/1998	0.026	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	<0.06	mg/kg dw	11/05/1998	0.011	keh	767	1830	SW 8310
Naphthalene	<0.2	mg/kg dw	11/05/1998	0.032	keh	767	1830	SW 8310
Phenanthrene	0.67	mg/kg dw	11/05/1998	0.052	keh	767	1830	SW 8310
Pyrene	<0.45	mg/kg dw	11/05/1998	0.026	keh	767	1830	SW 8310
Surr: p-Terphenyl	Masked		11/05/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	380		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.052	mg/kg dw	11/05/1998	0.052	tls	380	57	SW 8082
PCB-1221	<0.052	mg/kg dw	11/05/1998	0.052	tls	380	57	SW 8082
PCB-1232	<0.052	mg/kg dw	11/05/1998	0.052	tls	380	57	SW 8082
PCB-1242	<0.052	mg/kg dw	11/05/1998	0.052	tls	380	57	SW 8082
PCB-1248	<0.052	mg/kg dw	11/05/1998	0.052	tls	380	57	SW 8082
PCB-1254	<0.052	mg/kg dw	11/05/1998	0.052	tls	380	57	SW 8082
PCB-1260	<0.052	mg/kg dw	11/05/1998	0.052	tls	380	57	SW 8082
Decachlorobiphenyl (Surr)	71.0	%	11/05/1998	NA	tls	380	57	SW 8082
2,4,5,6-TCMX (Surr	77.0	%	11/05/1998	NA	tls	380	57	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499918

NET Job No.: 98.13879

Sample Description: B14 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 14:25
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
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	10/30/1998	0.10	nwg		189	SW 9045B
Solids, Total	90.2		%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	7.5		mg/kg dw	11/06/1998	0.55	mhp	235	672	SW 7060
Barium, ICP	322		mg/kg dw	11/06/1998	1.1	jtt	1165	2188	SW 6010B
Cadmium, ICP	0.70		mg/kg dw	11/06/1998	0.55	jtt	1165	2174	SW 6010B
Chromium, ICP	233		mg/kg dw	11/06/1998	2.2	jtt	1165	2159	SW 6010B
Lead, ICP	35		mg/kg dw	11/06/1998	4.4	jtt	1165	2397	SW 6010B
Mercury, CVAA	0.058		mg/kg dw	11/02/1998	0.044	sep	665	769	SW 7471A
Selenium, GFAA	<0.28		mg/kg dw	11/07/1998	0.28	mhp	235	561	SW 7740
Silver, AA	<2.2		mg/kg dw	11/03/1998	2.2	sep	493	570	SW 7760
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Toluene	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/03/1998	0.006	jap		75	SW 8260A
Dibromofluoromethane (Surr)	91.2		%	11/03/1998	81-129	jap		75	SW 8260A
Toluene-d8 (Surr)	92.6		%	11/03/1998	74-129	jap		75	SW 8260A
4-Bromofluoromethane (Surr)	98.6		%	11/03/1998	70-130	jap		75	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	767		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.022		mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Acenaphthylene	<0.022		mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Anthracene	<0.044		mg/kg dw	11/05/1998	0.044	keh	767	1830	SW 8310
Benzo(a)anthracene	<0.031	MX	mg/kg dw	11/05/1998	0.0029	keh	767	1830	SW 8310
Benzo(b)fluoranthene	0.0096		mg/kg dw	11/05/1998	0.0040	keh	767	1830	SW 8310

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

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499918

NET Job No.: 98.13879

Sample Description: B14 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 14:25
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.0082	MX	mg/kg dw	11/05/1998	0.0038	keh	767	1830	SW 8310
Benzo(a)pyrene	<0.0096	MX	mg/kg dw	11/05/1998	0.0051	keh	767	1830	SW 8310
Benzo(ghi)perylene	<0.044		mg/kg dw	11/05/1998	0.044	keh	767	1830	SW 8310
Chrysene	<0.03		mg/kg dw	11/05/1998	0.03	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	<0.007		mg/kg dw	11/05/1998	0.007	keh	767	1830	SW 8310
Fluoranthene	<0.022		mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Fluorene	<0.022		mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0095		mg/kg dw	11/05/1998	0.0095	keh	767	1830	SW 8310
Naphthalene	<0.028		mg/kg dw	11/05/1998	0.028	keh	767	1830	SW 8310
Phenanthrene	<0.044		mg/kg dw	11/05/1998	0.044	keh	767	1830	SW 8310
Pyrene	<0.022		mg/kg dw	11/05/1998	0.022	keh	767	1830	SW 8310
Surr: p-Terphenyl	68.0		%	11/05/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/02/1998	COMPLETE	wna	380		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.044		mg/kg dw	11/05/1998	0.044	tls	380	57	SW 8082
PCB-1221	<0.044		mg/kg dw	11/05/1998	0.044	tls	380	57	SW 8082
PCB-1232	<0.044		mg/kg dw	11/05/1998	0.044	tls	380	57	SW 8082
PCB-1242	<0.044		mg/kg dw	11/05/1998	0.044	tls	380	57	SW 8082
PCB-1248	<0.044		mg/kg dw	11/05/1998	0.044	tls	380	57	SW 8082
PCB-1254	<0.044		mg/kg dw	11/05/1998	0.044	tls	380	57	SW 8082
PCB-1260	<0.044		mg/kg dw	11/05/1998	0.044	tls	380	57	SW 8082
Decachlorobiphenyl (Surr)	85.0		%	11/05/1998	NA	tls	380	57	SW 8082
2,4,5,6-TCMX (Surr)	88.0		%	11/05/1998	NA	tls	380	57	SW 8082

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

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499919

NET Job No.: 98.13879

Sample Description: B16 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 14:35
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.97	units	10/30/1998	0.10	nwg		189	SW 9045B
Solids, Total	79.8	%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	3.3	mg/kg dw	11/06/1998	0.63	mhp	235	672	SW 7060
Barium, ICP	401	mg/kg dw	11/06/1998	1.3	jtt	1165	2188	SW 6010B
Cadmium, ICP	<0.63	mg/kg dw	11/06/1998	0.63	jtt	1165	2174	SW 6010B
Chromium, ICP	14	mg/kg dw	11/06/1998	2.5	jtt	1165	2159	SW 6010B
Lead, ICP	23	mg/kg dw	11/06/1998	5.0	jtt	1165	2397	SW 6010B
Mercury, CVAA	0.60	mg/kg dw	11/02/1998	0.050	sep	665	769	SW 7471A
Selenium, GFAA	<0.31	mg/kg dw	11/07/1998	0.31	mhp	235	561	SW 7740
Silver, AA	<2.5	mg/kg dw	11/03/1998	2.5	sep	493	570	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.006	mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Toluene	<0.006	mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Dibromofluoromethane (Surr)	87.2	%	11/03/1998	81-129	jap		74	SW 8260A
Toluene-d8 (Surr)	87.4	%	11/03/1998	74-129	jap		74	SW 8260A
4-Bromofluoromethane (Surr)	82.4	%	11/03/1998	70-130	jap		74	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	767		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV						
Acenaphthene	<2.0	mg/kg dw	11/05/1998	0.025	keh	767	1830	SW 8310
Acenaphthylene	<2.0	mg/kg dw	11/05/1998	0.025	keh	767	1830	SW 8310
Anthracene	<4.0	mg/kg dw	11/05/1998	0.050	keh	767	1830	SW 8310
Benzo(a)anthracene	<10	mg/kg dw	11/05/1998	0.0033	keh	767	1830	SW 8310
Benzo(b)fluoranthene	<1.9	mg/kg dw	11/05/1998	0.0045	keh	767	1830	SW 8310

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499919

NET Job No.: 98.13879

Sample Description: B16 (0-4)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 14:35
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<2.1	mg/kg dw	11/05/1998	0.0043	keh	767	1830	SW 8310
Benzo(a)pyrene	<2.0	mg/kg dw	11/05/1998	0.0058	keh	767	1830	SW 8310
Benzo(ghi)perylene	<4.0	mg/kg dw	11/05/1998	0.050	keh	767	1830	SW 8310
Chrysene	<3	mg/kg dw	11/05/1998	0.04	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	<0.6	mg/kg dw	11/05/1998	0.008	keh	767	1830	SW 8310
Fluoranthene	<2.0	mg/kg dw	11/05/1998	0.025	keh	767	1830	SW 8310
Fluorene	<2.0	mg/kg dw	11/05/1998	0.025	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	<0.88	mg/kg dw	11/05/1998	0.011	keh	767	1830	SW 8310
Naphthalene	<2.5	mg/kg dw	11/05/1998	0.031	keh	767	1830	SW 8310
Phenanthrene	<4.0	mg/kg dw	11/05/1998	0.050	keh	767	1830	SW 8310
Pyrene	<2.0	mg/kg dw	11/05/1998	0.025	keh	767	1830	SW 8310
Surr: p-Terphenyl	Diluted out		11/05/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/02/1998	COMPLETE	wna	380		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.050	mg/kg dw	11/05/1998	0.050	tls	380	57	SW 8082
PCB-1221	<0.050	mg/kg dw	11/05/1998	0.050	tls	380	57	SW 8082
PCB-1232	<0.050	mg/kg dw	11/05/1998	0.050	tls	380	57	SW 8082
PCB-1242	<0.050	mg/kg dw	11/05/1998	0.050	tls	380	57	SW 8082
PCB-1248	<0.050	mg/kg dw	11/05/1998	0.050	tls	380	57	SW 8082
PCB-1254	0.86	mg/kg dw	11/06/1998	0.050	tls	380	56	SW 8082
PCB-1260	<0.050	mg/kg dw	11/05/1998	0.050	tls	380	57	SW 8082
Decachlorobiphenyl Surr	73.0	%	11/05/1998	NA	tls	380	57	SW 8082
2,4,5,6-TCMX (Surr	97.0	%	11/05/1998	NA	tls	380	57	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499920

NET Job No.: 98.13879

Sample Description: B22 (0-2)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 14:45
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.02		units	10/30/1998	0.10	nwg		189	SW 9045B
Solids, Total	78.0		%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	14		mg/kg dw	11/06/1998	0.64	mhp	235	672	SW 7060
Barium, ICP	1,050		mg/kg dw	11/07/1998	1.3	jtt	1165	2188	SW 6010B
Cadmium, ICP	1.7		mg/kg dw	11/06/1998	0.64	jtt	1165	2174	SW 6010B
Chromium, ICP	64		mg/kg dw	11/06/1998	2.6	jtt	1165	2159	SW 6010B
Lead, ICP	33		mg/kg dw	11/06/1998	5.1	jtt	1165	2397	SW 6010B
Mercury, CVAA	0.085		mg/kg dw	11/02/1998	0.051	sep	665	769	SW 7471A
Selenium, GFAA	0.92		mg/kg dw	11/07/1998	0.32	mhp	235	561	SW 7740
Silver, AA	<2.6		mg/kg dw	11/03/1998	2.6	sep	493	570	SW 7760
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Toluene	<0.006		mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Dibromofluoromethane (Surr)	91.8		%	11/03/1998	81-129	jap		74	SW 8260A
Toluene-d8 (Surr)	89.2		%	11/03/1998	74-129	jap		74	SW 8260A
4-Bromofluoromethane (Surr)	91.4		%	11/03/1998	70-130	jap		74	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	767		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.058	MX	mg/kg dw	11/06/1998	0.026	keh	767	1830	SW 8310
Acenaphthylene	<0.067	MX	mg/kg dw	11/06/1998	0.026	keh	767	1830	SW 8310
Anthracene	<0.22	MX	mg/kg dw	11/06/1998	0.051	keh	767	1830	SW 8310
Benzo(a)anthracene	<0.32	MX	mg/kg dw	11/06/1998	0.0033	keh	767	1830	SW 8310
Benzo(b)fluoranthene	<0.032	MX	mg/kg dw	11/06/1998	0.0046	keh	767	1830	SW 8310

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499920

NET Job No.: 98.13879

Sample Description: B22 (0-2)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 14:45
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.018	MX	mg/kg dw	11/06/1998	0.0044	keh	767	1830	SW 8310
Benzo(a)pyrene	<0.054	MX	mg/kg dw	11/06/1998	0.0059	keh	767	1830	SW 8310
Benzo(ghi)perylene	<0.051		mg/kg dw	11/06/1998	0.051	keh	767	1830	SW 8310
Chrysene	<0.076	MX	mg/kg dw	11/06/1998	0.04	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	<0.019	MX	mg/kg dw	11/06/1998	0.008	keh	767	1830	SW 8310
Fluoranthene	<0.28	MX	mg/kg dw	11/06/1998	0.026	keh	767	1830	SW 8310
Fluorene	<0.14	MX	mg/kg dw	11/06/1998	0.026	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	<0.046	MX	mg/kg dw	11/06/1998	0.011	keh	767	1830	SW 8310
Naphthalene	<0.032		mg/kg dw	11/06/1998	0.032	keh	767	1830	SW 8310
Phenanthrene	0.67		mg/kg dw	11/06/1998	0.051	keh	767	1830	SW 8310
Pyrene	<0.49	MX	mg/kg dw	11/06/1998	0.026	keh	767	1830	SW 8310
Surr: p-Terphenyl	Masked			11/06/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/02/1998	COMPLETE	wna	380		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.051		mg/kg dw	11/05/1998	0.051	tls	380	57	SW 8082
PCB-1221	<0.051		mg/kg dw	11/05/1998	0.051	tls	380	57	SW 8082
PCB-1232	<0.051		mg/kg dw	11/05/1998	0.051	tls	380	57	SW 8082
PCB-1242	<0.051		mg/kg dw	11/05/1998	0.051	tls	380	57	SW 8082
PCB-1248	<0.051		mg/kg dw	11/05/1998	0.051	tls	380	57	SW 8082
PCB-1254	<0.051		mg/kg dw	11/05/1998	0.051	tls	380	57	SW 8082
PCB-1260	<0.051		mg/kg dw	11/05/1998	0.051	tls	380	57	SW 8082
Decachlorobiphenyl (Surr)	73.0		%	11/05/1998	NA	tls	380	57	SW 8082
2,4,5,6-TCMX (Surr)	76.0		%	11/05/1998	NA	tls	380	57	SW 8082

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

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499921

NET Job No.: 98.13879

Sample Description: S1
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 13:25
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.35		units	10/30/1998	0.10	nwg		189	SW 9045B
Solids, Total	89.0		%	11/02/1998	0.1	efw		2515	SM 2540
Arsenic, GFAA	5.2		mg/kg dw	11/06/1998	0.56	mhp	235	672	SW 7060
Barium, ICP	236		mg/kg dw	11/07/1998	1.1	jtt	1165	2188	SW 6010B
Cadmium, ICP	2.5		mg/kg dw	11/06/1998	0.56	jtt	1165	2174	SW 6010B
Chromium, ICP	51		mg/kg dw	11/06/1998	2.2	jtt	1165	2159	SW 6010B
Lead, ICP	29		mg/kg dw	11/06/1998	4.5	jtt	1165	2397	SW 6010B
Mercury, CVAA	<0.045		mg/kg dw	11/02/1998	0.045	sep	665	769	SW 7471A
Selenium, GFAA	<0.28		mg/kg dw	11/07/1998	0.28	mhp	235	561	SW 7740
Silver, AA	<2.2		mg/kg dw	11/03/1998	2.2	sep	493	570	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/02/1998		wna	245		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<56		mg/kg dw	11/04/1998	56	out	245	491	SW 8015M
TPH as Diesel	<56		mg/kg dw	11/04/1998	56	out	245	491	SW 8015M
TPH as Oil	390	PT	mg/kg dw	11/04/1998	56	out	245	491	SW 8015M
N-octacosane (TPH surr)	85.0		%	11/04/1998		out	245	491	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Toluene	<0.006		mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/03/1998	0.006	jap		74	SW 8260A
Dibromofluoromethane (Surr)	97.4		%	11/03/1998	81-129	jap		74	SW 8260A
Toluene-d8 (Surr)	79.8		%	11/03/1998	74-129	jap		74	SW 8260A
4-Bromofluoromethane (Surr)	80.4		%	11/03/1998	70-130	jap		74	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	767		SW 3540C

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

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499921

NET Job No.: 98.13879

Sample Description: S1
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 13:25
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<1.8	mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Acenaphthylene	<1.8	mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Anthracene	<3.6	mg/kg dw	11/06/1998	0.045	keh	767	1830	SW 8310
Benzo(a)anthracene	13	mg/kg dw	11/06/1998	0.0029	keh	767	1830	SW 8310
Benzo(b)fluoranthene	15	mg/kg dw	11/06/1998	0.0040	keh	767	1830	SW 8310
Benzo(k)fluoranthene	8.2	mg/kg dw	11/06/1998	0.0038	keh	767	1830	SW 8310
Benzo(a)pyrene	9.7	mg/kg dw	11/06/1998	0.0052	keh	767	1830	SW 8310
Benzo(ghi)perylene	9.8	mg/kg dw	11/06/1998	0.045	keh	767	1830	SW 8310
Chrysene	17	mg/kg dw	11/06/1998	0.03	keh	767	1830	SW 8310
Dibenzo(a,h)anthracene	1.1	mg/kg dw	11/06/1998	0.007	keh	767	1830	SW 8310
Fluoranthene	34	mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Fluorene	<3.5	mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Indeno(1,2,3-cd)pyrene	7.6	mg/kg dw	11/06/1998	0.0097	keh	767	1830	SW 8310
Naphthalene	4.0	mg/kg dw	11/06/1998	0.028	keh	767	1830	SW 8310
Phenanthrene	13	mg/kg dw	11/06/1998	0.045	keh	767	1830	SW 8310
Pyrene	34	mg/kg dw	11/06/1998	0.022	keh	767	1830	SW 8310
Surr: p-Terphenyl	Diluted out		11/06/1998	43-125	keh	767	1830	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.045	mg/kg dw	11/06/1998	0.045	tls	381	53	SW 8082
PCB-1221	<0.045	mg/kg dw	11/06/1998	0.045	tls	381	53	SW 8082
PCB-1232	<0.045	mg/kg dw	11/06/1998	0.045	tls	381	53	SW 8082
PCB-1242	<0.045	mg/kg dw	11/06/1998	0.045	tls	381	53	SW 8082
PCB-1248	<0.045	mg/kg dw	11/06/1998	0.045	tls	381	53	SW 8082
PCB-1254	0.063	mg/kg dw	11/06/1998	0.045	tls	381	53	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 499921

NET Job No.: 98.13879

Sample Description: S1
ComEd-Waukegan; 1801-023-610

Date Taken: 10/26/1998
Time Taken: 13:25
IEPA Cert. No. 100221

Date Received: 10/27/1998
Time Received: 11:00
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.045	mg/kg dw	11/06/1998	0.045	tls	381 53	SW 8082
Decachlorobiphenyl (Surr)	95.0	%	11/06/1998	NA	tls	381 53	SW 8082
2,4,5,6-TCMX (Surr)	82.0	%	11/06/1998	NA	tls	381 53	SW 8082

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
pH, Non-Aqueous	188	7.00	7.00	100.0
pH, Non-Aqueous	189	7.00	7.00	100.0
Arsenic, GFAA	672	0.0250	0.0256	102.4
Barium, ICP	2188	2.00	1.99	99.5
Barium, ICP	2188	2.00	2.03	101.5
Cadmium, ICP	2174	1.00	1.07	107.0
Chromium, ICP	2159	2.00	2.17	108.5
Lead, ICP	2397	2.00	2.11	105.5
Selenium, GFAA	561	0.0500	0.0487	97.4
Silver, AA	569	0.50	0.489	97.8
Silver, AA	570	0.50	0.515	103.0
UST VOLATILES NON-AQUEOUS				
Benzene	73	50.0	51.5	103.0
Ethylbenzene	73	50.0	50.5	101.0
Toluene	73	50.0	50.8	101.6
Xylenes, Total	73	150	151	100.7
UST VOLATILES NON-AQUEOUS				
Benzene	74	50.0	54.3	108.6
Ethylbenzene	74	50.0	52.3	104.6
Toluene	74	50.0	52.5	105.0
Xylenes, Total	74	150	157	104.7
UST VOLATILES NON-AQUEOUS				
Benzene	75	50.0	51.7	103.4
Ethylbenzene	75	50.0	52.0	104.0
Toluene	75	50.0	51.8	103.6
Xylenes, Total	75	150	155	103.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1830	5000	4,782	95.6
Acenaphthylene	1830	5000	5,154	103.1
Anthracene	1830	5000	5,055	101.1
Benzo(a)anthracene	1830	5000	5,156	103.1
Benzo(b)fluoranthene	1830	5000	4,821	96.4
Benzo(k)fluoranthene	1830	5000	4,822	96.4
Benzo(a)pyrene	1830	5000	4,622	92.4

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Benzo(ghi)perylene	1830	5000	4,827	96.5
Chrysene	1830	5000	5,042	100.8
Dibenzo(a,h)anthracene	1830	5000	4,938	98.8
Fluoranthene	1830	5000	4,984	99.7
Fluorene	1830	5000	4,948	99.0
Indeno(1,2,3-cd)pyrene	1830	5000	5,038	100.8
Naphthalene	1830	5000	4,671	93.4
Phenanthrene	1830	5000	5,022	100.4
Pyrene	1830	5000	4,891	97.8
Surr: p-Terphenyl	1830	5000	4,860	97.2
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1830	5000	4,878	97.6
Acenaphthylene	1830	5000	5,126	102.5
Anthracene	1830	5000	5,153	103.1
Benzo(a)anthracene	1830	5000	5,200	104.0
Benzo(b)fluoranthene	1830	5000	5,126	102.5
Benzo(k)fluoranthene	1830	5000	4,981	99.6
Benzo(a)pyrene	1830	5000	4,699	94.0
Benzo(ghi)perylene	1830	5000	5,022	100.4
Chrysene	1830	5000	5,255	105.1
Dibenzo(a,h)anthracene	1830	5000	5,020	100.4
Fluoranthene	1830	5000	5,150	103.0
Fluorene	1830	5000	5,008	100.2
Indeno(1,2,3-cd)pyrene	1830	5000	5,138	102.8
Naphthalene	1830	5000	4,827	96.5
Phenanthrene	1830	5000	5,123	102.5
Pyrene	1830	5000	5,017	100.3
Surr: p-Terphenyl	1830	5000	4,999	100.0
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1830	5000	4,851	97.0
Acenaphthylene	1830	5000	5,140	102.8
Anthracene	1830	5000	5,158	103.2
Benzo(a)anthracene	1830	5000	5,155	103.1
Benzo(b)fluoranthene	1830	5000	5,130	102.6

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Benzo(k)fluoranthene	1830	5000	4,890	97.8
Benzo(a)pyrene	1830	5000	4,669	93.4
Benzo(ghi)perylene	1830	5000	5,105	102.1
Chrysene	1830	5000	5,137	102.7
Dibenzo(a,h)anthracene	1830	5000	5,065	101.3
Fluoranthene	1830	5000	5,143	102.9
Fluorene	1830	5000	5,047	100.9
Indeno(1,2,3-cd)pyrene	1830	5000	5,177	103.5
Naphthalene	1830	5000	4,747	94.9
Phenanthrene	1830	5000	5,148	103.0
Pyrene	1830	5000	5,124	102.5
Surr: p-Terphenyl	1830	5000	4,997	99.9
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1833	5000	4,772	95.4
Acenaphthylene	1833	5000	5,052	101.0
Anthracene	1833	5000	5,101	102.0
Benzo(a)anthracene	1833	5000	5,100	102.0
Benzo(b)fluoranthene	1833	5000	5,023	100.5
Benzo(k)fluoranthene	1833	5000	4,833	96.7
Benzo(a)pyrene	1833	5000	4,841	96.8
Benzo(ghi)perylene	1833	5000	5,077	101.5
Chrysene	1833	5000	5,078	101.6
Dibenzo(a,h)anthracene	1833	5000	4,997	99.9
Fluoranthene	1833	5000	5,044	100.9
Fluorene	1833	5000	4,953	99.1
Indeno(1,2,3-cd)pyrene	1833	5000	5,032	100.6
Naphthalene	1833	5000	4,652	93.0
Phenanthrene	1833	5000	5,042	100.8
Pyrene	1833	5000	4,907	98.1
Surr: p-Terphenyl	1833	5000	4,856	97.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1833	5000	4,848	97.0
Acenaphthylene	1833	5000	5,219	104.4
Anthracene	1833	5000	5,161	103.2

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Benzo(a)anthracene	1833	5000	5,266	105.3
Benzo(b)fluoranthene	1833	5000	4,961	99.2
Benzo(k)fluoranthene	1833	5000	4,980	99.6
Benzo(a)pyrene	1833	5000	4,874	97.5
Benzo(ghi)perylene	1833	5000	5,175	103.5
Chrysene	1833	5000	5,175	103.5
Dibenzo(a,h)anthracene	1833	5000	5,114	102.3
Fluoranthene	1833	5000	5,133	102.7
Fluorene	1833	5000	5,041	100.8
Indeno(1,2,3-cd)pyrene	1833	5000	5,070	101.4
Naphthalene	1833	5000	4,767	95.3
Phenanthrene	1833	5000	5,120	102.4
Pyrene	1833	5000	4,980	99.6
Surr: p-Terphenyl	1833	5000	4,976	99.5
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1833	5000	4,815	96.3
Acenaphthylene	1833	5000	5,143	102.9
Anthracene	1833	5000	5,176	103.5
Benzo(a)anthracene	1833	5000	5,204	104.1
Benzo(b)fluoranthene	1833	5000	5,071	101.4
Benzo(k)fluoranthene	1833	5000	4,923	98.5
Benzo(a)pyrene	1833	5000	4,957	99.1
Benzo(ghi)perylene	1833	5000	5,149	103.0
Chrysene	1833	5000	5,232	104.6
Dibenzo(a,h)anthracene	1833	5000	5,058	101.2
Fluoranthene	1833	5000	5,090	101.8
Fluorene	1833	5000	5,015	100.3
Indeno(1,2,3-cd)pyrene	1833	5000	5,098	102.0
Naphthalene	1833	5000	4,759	95.2
Phenanthrene	1833	5000	5,135	102.7
Pyrene	1833	5000	5,004	100.1
Surr: p-Terphenyl	1833	5000	5,030	100.6
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1833	5000	4,926	98.5

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Acenaphthylene	1833	5000	5,116	102.3
Anthracene	1833	5000	5,182	103.6
Benzo(a)anthracene	1833	5000	5,207	104.1
Benzo(b)fluoranthene	1833	5000	4,911	98.2
Benzo(k)fluoranthene	1833	5000	4,858	97.2
Benzo(a)pyrene	1833	5000	4,927	98.5
Benzo(ghi)perylene	1833	5000	5,045	100.9
Chrysene	1833	5000	5,186	103.7
Dibenzo(a,h)anthracene	1833	5000	5,114	102.3
Fluoranthene	1833	5000	5,120	102.4
Fluorene	1833	5000	5,038	100.8
Indeno(1,2,3-cd)pyrene	1833	5000	5,132	102.6
Naphthalene	1833	5000	4,745	94.9
Phenanthrene	1833	5000	5,144	102.9
Pyrene	1833	5000	5,045	100.9
Surr: p-Terphenyl	1833	5000	4,911	98.2
PCB'S NON-AQUEOUS				
PCB-1016	53	500	434	86.8
PCB-1260	53	500	442	88.4
PCB'S NON-AQUEOUS				
PCB-1016	53	500	447	89.4
PCB-1260	53	500	460	92.0
PCB'S NON-AQUEOUS				
PCB-1016	53	500	447	89.4
PCB-1260	53	500	460	92.0
PCB'S NON-AQUEOUS				
PCB-1016	53	500	479	95.8
PCB-1260	53	500	484	96.8
PCB'S NON-AQUEOUS				
PCB-1016	53	500	475	95.0
PCB-1260	53	500	459	91.8
PCB'S NON-AQUEOUS				
PCB'S NON-AQUEOUS				
PCB'S NON-AQUEOUS				

CCV - Continuing Calibration Verification

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
PCB-1016	57	500	487	97.4
PCB-1260	57	500	440	88.0
PCB'S NON-AQUEOUS				
PCB-1016	57	500	543	108.6
PCB-1260	57	500	527	105.4

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	235	672	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1165	2188	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1165	2174	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1165	2159	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1165	2397	<4.0	mg/Kg	4.0	SW 6010B
Selenium, GFAA	235	561	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	492	569	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	493	570	<2.0	mg/Kg	2.0	SW 7760
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		74	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		74	<0.005	mg/Kg	0.005	SW 8260A
Toluene		74	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		74	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		74	77.0	%	81-129	SW 8260A
Toluene-d8 (Surr)		74	81.2	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		74	87.4	%	70-130	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		75	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		75	<0.005	mg/Kg	0.005	SW 8260A
Toluene		75	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		75	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		75	90.6	%	81-129	SW 8260A
Toluene-d8 (Surr)		75	97.2	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		75	103.0	%	70-130	SW 8260A
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Anthracene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	767	1826	<0.0026	mg/Kg	0.0026	SW 8310

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

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Benzo(b)fluoranthene	767	1826	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	767	1826	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	767	1826	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Chrysene	767	1826	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	767	1826	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Fluorene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	767	1826	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	767	1826	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Pyrene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	767	1826	86.2	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Anthracene	767	1830	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	767	1830	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	767	1830	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	767	1830	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	767	1830	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	767	1830	<0.040	mg/Kg	0.040	SW 8310
Chrysene	767	1830	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	767	1830	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Fluorene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	767	1830	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	767	1830	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	767	1830	<0.040	mg/Kg	0.040	SW 8310

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

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Pyrene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	767	1830	90.3	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	770	1833	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	770	1833	<0.020	mg/Kg	0.020	SW 8310
Anthracene	770	1833	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	770	1833	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	770	1833	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	770	1833	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	770	1833	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	770	1833	<0.040	mg/Kg	0.040	SW 8310
Chrysene	770	1833	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	770	1833	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	770	1833	<0.020	mg/Kg	0.020	SW 8310
Fluorene	770	1833	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	770	1833	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	770	1833	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	770	1833	<0.040	mg/Kg	0.040	SW 8310
Pyrene	770	1833	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	770	1833	77.9	%	43-125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	380	52	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	380	52	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	380	52	80.0	%	NA	SW 8082

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

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
2,4,5,6-TCMX (Surr)	380	52	78.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	381	53	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	381	53	84.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	381	53	67.0	%	NA	SW 8082

Advisory Control Limits for Blanks:

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

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	235	672	0.0100	0.0091	91.0
Barium, ICP	1165	2188	5.00	5.18	103.6
Cadmium, ICP	1165	2174	2.50	2.48	99.2
Chromium, ICP	1165	2159	5.00	5.05	101.0
Lead, ICP	1165	2397	5.00	4.75	95.0
Selenium, GFAA	235	561	0.0100	0.0104	104.0
Silver, AA	492	569	0.10	0.084	84.0
Silver, AA	493	570	1.0	0.958	95.8
Silver, AA		570	0.10	0.095	95.0
TPH MODIFIED 8015					
TPH as Gas	245	486	250	225	90.0
TPH as Diesel	245	486	250	216	86.4
TPH as Oil	245	486	250	201	80.4
N-octacosane (TPH surr)	245	486	100	117	117.0
UST VOLATILES NON-AQUEOUS					
Benzene		73	20.0	21.2	106.0
Ethylbenzene		73	20.0	20.7	103.5
Toluene		73	20.0	19.9	99.5
Xylenes, Total		73	60.0	60.8	101.3
Dibromofluoromethane (Surr)		73	50.0	48.3	96.6
Toluene-d8 (Surr)		73	50.0	52.6	105.2
4-Bromofluoromethane (Surr)		73	50.0	53.4	106.8
UST VOLATILES NON-AQUEOUS					
Benzene		74	20.0	20.5	102.5
Ethylbenzene		74	20.0	20.6	103.0
Toluene		74	20.0	19.8	99.0
Xylenes, Total		74	60.0	61.0	101.7
Dibromofluoromethane (Surr)		74	50.0	45.7	91.4
Toluene-d8 (Surr)		74	50.0	45.9	91.8
4-Bromofluoromethane (Surr)		74	50.0	50.2	100.4
UST VOLATILES NON-AQUEOUS					

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
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Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Benzene		75	20.0	19.5	97.5
Ethylbenzene		75	20.0	20.1	100.5
Toluene		75	20.0	18.9	94.5
Xylenes, Total		75	60.0	58.7	97.8
Dibromofluoromethane (Surr)		75	50.0	45.5	91.0
Toluene-d8 (Surr)		75	50.0	49.3	98.6
4-Bromofluoromethane (Surr)		75	50.0	50.7	101.4
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	767	1828	0.033	0.027	81.8
Acenaphthylene	767	1828	0.033	0.028	84.8
Anthracene	767	1828	0.033	0.029	87.9
Benzo(a)anthracene	767	1828	0.033	0.027	81.8
Benzo(b)fluoranthene	767	1828	0.033	0.027	81.8
Benzo(k)fluoranthene	767	1828	0.033	0.028	84.8
Benzo(a)pyrene	767	1828	0.033	0.027	81.8
Benzo(ghi)perylene	767	1828	0.033	0.030	90.9
Chrysene	767	1828	0.033	0.029	87.9
Dibenzo(a,h)anthracene	767	1828	0.033	0.028	84.8
Fluoranthene	767	1828	0.033	0.029	87.9
Fluorene	767	1828	0.033	0.031	93.9
Indeno(1,2,3-cd)pyrene	767	1828	0.033	0.028	84.8
Naphthalene	767	1828	0.033	0.031	93.9
Phenanthrene	767	1828	0.033	0.029	87.9
Pyrene	767	1828	0.033	0.033	100.0
Surr: p-Terphenyl	767	1828	2000	1,613	80.7
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	767	1830	0.033	0.032	97.0
Acenaphthylene	767	1830	0.033	0.030	90.9
Anthracene	767	1830	0.033	0.030	90.9
Benzo(a)anthracene	767	1830	0.033	0.031	93.9
Benzo(b)fluoranthene	767	1830	0.033	0.033	100.0

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Benzo(k)fluoranthene	767	1830	0.033	0.029	87.9
Benzo(a)pyrene	767	1830	0.033	0.027	81.8
Benzo(ghi)perylene	767	1830	0.033	0.029	87.9
Chrysene	767	1830	0.033	0.031	93.9
Dibenzo(a,h)anthracene	767	1830	0.033	0.029	87.9
Fluoranthene	767	1830	0.033	0.032	97.0
Fluorene	767	1830	0.033	0.029	87.9
Indeno(1,2,3-cd)pyrene	767	1830	0.033	0.030	90.9
Naphthalene	767	1830	0.033	0.023	69.7
Phenanthrene	767	1830	0.033	0.030	90.9
Pyrene	767	1830	0.033	0.031	93.9
Surr: p-Terphenyl	767	1830	2000	1,705	85.3
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	770	1833	0.033	0.030	90.9
Acenaphthylene	770	1833	0.033	0.030	90.9
Anthracene	770	1833	0.033	0.030	90.9
Benzo(a)anthracene	770	1833	0.033	0.030	90.9
Benzo(b)fluoranthene	770	1833	0.033	0.029	87.9
Benzo(k)fluoranthene	770	1833	0.033	0.029	87.9
Benzo(a)pyrene	770	1833	0.033	0.029	87.9
Benzo(ghi)perylene	770	1833	0.033	0.030	90.9
Chrysene	770	1833	0.033	0.029	87.9
Dibenzo(a,h)anthracene	770	1833	0.033	0.030	90.9
Fluoranthene	770	1833	0.033	0.030	90.9
Fluorene	770	1833	0.033	0.029	87.9
Indeno(1,2,3-cd)pyrene	770	1833	0.033	0.030	90.9
Naphthalene	770	1833	0.033	0.026	78.8
Phenanthrene	770	1833	0.033	0.030	90.9
Pyrene	770	1833	0.033	0.030	90.9
Surr: p-Terphenyl	770	1833	2000	1,662	83.1
PCB'S NON-AQUEOUS					

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
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11/10/1998

NET Job Number: 98.13879

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
PCB-1016	380	52	500	448	89.6
PCB-1260	380	52	500	452	90.4
Decachlorobiphenyl (Surr)	380	52	100	86	86.0
2,4,5,6-TCMX (Surr)	380	52	100	80	80.0
PCB'S NON-AQUEOUS					
PCB-1016	381	53	500	440	88.0
PCB-1260	381	53	500	454	90.8
Decachlorobiphenyl (Surr)	381	53	100	92	92.0
2,4,5,6-TCMX (Surr)	381	53	100	81	81.0

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QUALITY CONTROL REPORT

DUPLICATES

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/10/1998

NET Job Number: 98.13879

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
pH, Non-Aqueous		188	7.55	7.46	units	1.2
pH, Non-Aqueous		189	7.50	7.48	units	0.3
Solids, Total		2515	66.8	69.9	%	4.5
Solids, Total		2515	95.0	95.2	%	0.2
Solids, Total		2515	89.0	89.7	%	0.8

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

RPD - Relative Percent Difference

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

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

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

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials"

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

(7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

(8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.

(9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY: ENSR Corp.
ADDRESS: 740 Pasquinelli Dr. St. 124 Westmont, IL
PHONE: (630) 887 1700 FAX: 630 850 5307
PROJECT NAME/LOCATION: ComEd / Waukegan
PROJECT NUMBER: 1801.023-610
PROJECT MANAGER: Weilin Feng / Karen Dolnicks

REPORT TO: K. Dolnicks
INVOICE TO: ENSR
P.O. NO.:
NET QUOTE NO.:

SAMPLED BY (PRINT NAME): B. Buckley
SIGNATURE: B Buckley
(PRINT NAME):
SIGNATURE:

DATE 1998	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: PH 9045	PNAs 8310	BTEX 8260	PCBs 8081	TPH 8015	RCRA Metals (4 total)					COMMENTS
10/26	1015	B21 (0-4)	S	X							X	X	X	X	X	X					NoTPH - mistake
10/26	1052	B20 (0-4)	S	X							X	X	X	X		X					
10/26	1112	B19 (0-4)	S	X							X	X	X	X		X					
10/26	1120	B4 (0-4)	S	X							X	X	X	X		X					
10/26	1315	B2 (0-4)	S	X							X	X	X	X		X					
10/26	1325	B1	S	X							X	X	X	X	X	X					
10/26	1340	B13 (0-4)	S	X							X	X	X	X		X					
10/26	1415	B14 (0-4)	S	X							X	X	X	X		X					
10/26	1435	B16 (0-4)	S	X							X	X	X	X		X					
10/26	1445	B22 (0-2)	S	X							X	X	X	X		X					

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No ___

Is this work being conducted for regulatory enforcement action? Yes ___ No ___

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other ___ None ___

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: 'C 4 Wet 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 ___ DATE ___

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
B. Buckley	10/26/98	1600			10/27/98	11:00	J. O'Dell

METHOD OF SHIPMENT: fedex

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

MWG13-15_45890

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 West Bartlett Rd.
Bartlett, IL 60103
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(800) 807-2877

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

11/10/1998

NET Job Number: 98.14078

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-Waukegan; 1801-023-610

Sample Number	Sample Description	Date Taken	Date Received
500692	MW-1	10/29/1998	10/30/1998
500693	MW-2	10/29/1998	10/30/1998
500694	MW-3	10/29/1998	10/30/1998
500695	MW-4	10/29/1998	10/30/1998
500696	MW-5	10/29/1998	10/30/1998
500697	MW-6	10/29/1998	10/30/1998
500698	MW-7	10/29/1998	10/30/1998

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500692

NET Job No.: 98.14078

Sample Description: MW-1
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 11:15
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.07	units	10/30/1998	0.10	efw	1719	EPA 150.1
Arsenic, GFAA	1.1	mg/L	11/09/1998	0.0050	out	1358 1148	SW 7060
Barium, ICP	0.031	mg/L	11/05/1998	0.020	kdw	2201 3769	SW 6010B
Cadmium, ICP	0.034	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	<0.0050	mg/L	11/05/1998	0.0050	out	1358 2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/05/1998	0.0002	sep	1187 1093	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	1358 859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1016 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	75.0	%	11/06/1998	22-154	tls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	73.0	%	11/06/1998	23-154	tls	371 703	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500692

NET Job No.: 98.14078

Sample Description: MW-1
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 11:15
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	11/07/1998	0.001	mjo		2642	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Toluene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Xylenes, Total	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Surr: Toluene-d8	104.8	%	11/07/1998	85-117	mjo		2642	SW 8260A
Surr: Bromofluorobenzene	103.0	%	11/07/1998	80-116	mjo		2642	SW 8260A
Surr: Dibromofluoromethane	99.0	%	11/07/1998	75-130	mjo		2642	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/04/1998		mmv	409		SW 3520C
PNA CMPDS - 8310 AQUEOUS								
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409	1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409	1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409	1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409	1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409	1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409	1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409	1207	SW 8310
Naphthalene	0.00056	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409	1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500692

NET Job No.: 98.14078

Sample Description: MW-1
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 11:15
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Surr: p-Terphenyl	82.2	%	11/07/1998	43-125	keh	409	1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500693

NET Job No.: 98.14078

Sample Description: MW-2
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 13:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	6.91	units	10/30/1998	0.10	efw	1719	EPA 150.1
Arsenic, GFAA	0.0073	mg/L	11/09/1998	0.0050	out	1358 1148	SW 7060
Barium, ICP	0.070	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	<0.0050	mg/L	11/05/1998	0.0050	out	1358 2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/05/1998	0.0002	sep	1187 1093	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	1358 859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1016 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	79.0	%	11/06/1998	22-154	tls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	70.0	%	11/06/1998	23-154	tls	371 703	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500693

NET Job No.: 98.14078

Sample Description: MW-2
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 13:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	11/07/1998	0.001	mjo		2642	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Toluene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Xylenes, Total	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Surr: Toluene-d8	105.4	%	11/07/1998	85-117	mjo		2642	SW 8260A
Surr: Bromofluorobenzene	103.0	%	11/07/1998	80-116	mjo		2642	SW 8260A
Surr: Dibromofluoromethane	100.0	%	11/07/1998	75-130	mjo		2642	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/04/1998		mmv	409		SW 3520C
PNA CMPDS - 8310 AQUEOUS								
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409	1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409	1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409	1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409	1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409	1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409	1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409	1207	SW 8310
Naphthalene	0.00058	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409	1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500693

NET Job No.: 98.14078

Sample Description: MW-2
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 13:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	91.1	%	11/07/1998	43-125	keh	409 1207	SW 8310

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500694

NET Job No.: 98.14078

Sample Description: MW-3
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 10:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH	6.74	units	10/30/1998	0.10	efw		1719	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/09/1998	0.0050	out	1358	1148	SW 7060
Barium, ICP	0.085	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	<0.0050	mg/L	11/05/1998	0.0050	out	1358	2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/05/1998	0.0002	sep	1187	1093	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	1358	859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1016	995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371		SW 3510C
PCBs 8082 Aqueous								
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tls	371	703	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tls	371	703	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tls	371	703	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tls	371	703	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tls	371	703	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tls	371	703	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tls	371	703	SW 8082
Surr: Tetrachloroxylene (TCX)	83.0	%	11/06/1998	22-154	tls	371	703	SW 8082
Surr: Decachlorobiphenyl (DCB)	76.0	%	11/06/1998	23-154	tls	371	703	SW 8082

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500694

NET Job No.: 98.14078

Sample Description: MW-3
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 10:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	11/07/1998	0.001	mjo	2642	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/07/1998	0.001	mjo	2642	SW 8260A
Toluene	<0.001	mg/L	11/07/1998	0.001	mjo	2642	SW 8260A
Xylenes, Total	<0.001	mg/L	11/07/1998	0.001	mjo	2642	SW 8260A
Surr: Toluene-d8	111.6	%	11/07/1998	85-117	mjo	2642	SW 8260A
Surr: Bromofluorobenzene	102.0	%	11/07/1998	80-116	mjo	2642	SW 8260A
Surr: Dibromofluoromethane	99.6	%	11/07/1998	75-130	mjo	2642	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/04/1998		mmv	409	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409 1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409 1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409 1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409 1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409 1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409 1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409 1207	SW 8310
Naphthalene	0.0011	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409 1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500694

NET Job No.: 98.14078

Sample Description: MW-3
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 10:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Surr: p-Terphenyl	84.2	%	11/07/1998	43-125	keh	409	1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500695

NET Job No.: 98.14078

Sample Description: MW-4
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 14:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	6.52	units	10/30/1998	0.10	efw	1719	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/09/1998	0.0050	out	1358 1148	SW 7060
Barium, ICP	0.048	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	<0.0050	mg/L	11/05/1998	0.0050	out	1358 2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/05/1998	0.0002	sep	1187 1093	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	1358 859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1016 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	83.0	%	11/07/1998	22-154	tls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	81.0	%	11/07/1998	23-154	tls	371 703	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500695

NET Job No.: 98.14078

Sample Description: MW-4
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 14:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	11/07/1998	0.001	mjo		2642	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Toluene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Xylenes, Total	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Surr: Toluene-d8	111.4	%	11/07/1998	85-117	mjo		2642	SW 8260A
Surr: Bromofluorobenzene	102.0	%	11/07/1998	80-116	mjo		2642	SW 8260A
Surr: Dibromofluoromethane	99.2	%	11/07/1998	75-130	mjo		2642	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/04/1998		mmv	409		SW 3520C
PNA CMPDS - 8310 AQUEOUS								
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409	1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409	1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409	1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409	1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409	1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409	1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409	1207	SW 8310
Naphthalene	0.00062	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409	1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310

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ANALYTICAL REPORT

Mr. Wei-Lin Feng
ENSR
740 Pasquinelli Drive
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11/10/1998

Sample No. : 500695

NET Job No.: 98.14078

Sample Description: MW-4
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 14:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	92.2	%	11/07/1998	43-125	keh	409 1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500696

NET Job No.: 98.14078

Sample Description: MW-5
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 15:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	6.85	units	10/30/1998	0.10	efw	1719	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/09/1998	0.0050	out	1358 1148	SW 7060
Barium, ICP	0.104	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	<0.0050	mg/L	11/05/1998	0.0050	out	1358 2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/05/1998	0.0002	sep	1187 1093	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	1358 859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1016 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	80.0	%	11/07/1998	22-154	tls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	70.0	%	11/07/1998	23-154	tls	371 703	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500696

NET Job No.: 98.14078

Sample Description: MW-5
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 15:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	11/07/1998	0.001	mjo		2642	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Toluene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Xylenes, Total	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Surr: Toluene-d8	112.2	%	11/07/1998	85-117	mjo		2642	SW 8260A
Surr: Bromofluorobenzene	97.8	%	11/07/1998	80-116	mjo		2642	SW 8260A
Surr: Dibromofluoromethane	100.4	%	11/07/1998	75-130	mjo		2642	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/04/1998		mmv	409		SW 3520C
PNA CMPDS - 8310 AQUEOUS								
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409	1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409	1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409	1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409	1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409	1207	SW 8310
Chrysene	<0.0005	mg/L	11/09/1998	0.0005	keh	409	1208	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409	1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409	1207	SW 8310
Naphthalene	0.0012	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409	1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500696

NET Job No.: 98.14078

Sample Description: MW-5
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 15:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Surr: p-Terphenyl	78.7	%	11/07/1998	43-125	keh	409	1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500697

NET Job No.: 98.14078

Sample Description: MW-6
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 15:45
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.06	units	10/30/1998	0.10	efw	1719	EPA 150.1
Arsenic, GFAA	0.010	mg/L	11/09/1998	0.0050	out	1358 1148	SW 7060
Barium, ICP	0.292	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	<0.0050	mg/L	11/05/1998	0.0050	out	1358 2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/05/1998	0.0002	sep	1187 1093	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	1358 859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1016 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	87.0	%	11/07/1998	22-154	tls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	76.0	%	11/07/1998	23-154	tls	371 703	SW 8082

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500697

NET Job No.: 98.14078

Sample Description: MW-6
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 15:45
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	11/07/1998	0.001	mjo		2642	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Toluene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Xylenes, Total	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Surr: Toluene-d8	105.0	%	11/07/1998	85-117	mjo		2642	SW 8260A
Surr: Bromofluorobenzene	101.6	%	11/07/1998	80-116	mjo		2642	SW 8260A
Surr: Dibromofluoromethane	98.4	%	11/07/1998	75-130	mjo		2642	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/04/1998		mmv	409		SW 3520C
PNA CMPDS - 8310 AQUEOUS								
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409	1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409	1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409	1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409	1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409	1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409	1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409	1207	SW 8310
Naphthalene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409	1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500697

NET Job No.: 98.14078

Sample Description: MW-6
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 15:45
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	84.0	%	11/07/1998	43-125	keh	409 1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500698

NET Job No.: 98.14078

Sample Description: MW-7
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 09:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.44	units	10/30/1998	0.10	efw	1719	EPA 150.1
Arsenic, GFAA	0.0072	mg/L	11/09/1998	0.0050	out	1358 1148	SW 7060
Barium, ICP	0.151	mg/L	11/06/1998	0.020	jtt	2205 3774	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/06/1998	0.010	jtt	2205 3741	SW 6010B
Chromium, ICP	<0.040	mg/L	11/06/1998	0.040	jtt	2205 3752	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	1358 2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/09/1998	0.0002	sep	1189 1095	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	1358 859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1017 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/07/1998	0.0005	tls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	69.0	%	11/07/1998	22-154	tls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	67.0	%	11/07/1998	23-154	tls	371 703	SW 8082

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500698

NET Job No.: 98.14078

Sample Description: MW-7
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 09:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
UST VOLATILES 8260 - AQUEOUS								
Benzene	0.0048	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Toluene	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Xylenes, Total	<0.001	mg/L	11/07/1998	0.001	mjo		2642	SW 8260A
Surr: Toluene-d8	105.6	%	11/07/1998	85-117	mjo		2642	SW 8260A
Surr: Bromofluorobenzene	102.6	%	11/07/1998	80-116	mjo		2642	SW 8260A
Surr: Dibromofluoromethane	98.6	%	11/07/1998	75-130	mjo		2642	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/04/1998		mmv	409		SW 3520C
PNA CMPDS - 8310 AQUEOUS								
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409	1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409	1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409	1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409	1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409	1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409	1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409	1207	SW 8310
Naphthalene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409	1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409	1207	SW 8310

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ANALYTICAL REPORT

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

11/10/1998

Sample No. : 500698

NET Job No.: 98.14078

Sample Description: MW-7
ComEd-Waukegan; 1801-023

Date Taken: 10/29/1998
Time Taken: 09:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	90.2	%	11/07/1998	43-125	keh	409 1207	SW 8310

MWG13-15_45913

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.14078

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
pH	1719	7.02	7.00	99.7
Arsenic, GFAA	1148	0.0500	0.0508	101.6
Arsenic, GFAA	1148	0.0500	0.0536	107.2
Barium, ICP	3769	2.00	1.98	99.0
Barium, ICP	3774	2.00	2.09	104.5
Cadmium, ICP	3737	1.00	0.969	96.9
Cadmium, ICP	3741	1.00	1.02	102.0
Chromium, ICP	3746	2.00	1.97	98.5
Chromium, ICP	3752	2.00	2.09	104.5
Lead, GFAA	2174	0.0250	0.0256	102.4
Lead, GFAA	2174	0.0250	0.0261	104.4
Mercury, CVAA	1093	0.0025	0.00259	103.6
Mercury, CVAA	1093	0.0025	0.00259	103.6
Mercury, CVAA	1095	0.0025	0.00237	94.8
Selenium, GFAA	859	0.0500	0.0513	102.6
Selenium, GFAA	859	0.0500	0.0530	106.0
Silver, AA	995	0.500	0.504	100.8
PCBs 8082 Aqueous				
PCB-1016	703	500.	485	97.0
PCB-1260	703	500	500	100.0
PCBs 8082 Aqueous				
PCB-1016	703	500.	479	95.8
PCB-1260	703	500	499	99.8
PCBs 8082 Aqueous				
PCB-1016	703	500.	494	98.8
PCB-1260	703	500	436	87.2
PCBs 8082 Aqueous				
PCB-1016	703	500.	505	101.0
PCB-1260	703	500	531	106.2
PCBs 8082 Aqueous				
PCB-1016	703	500.	505	101.0
PCB-1260	703	500	505	101.0
UST VOLATILES 8260 - AQUEOUS				
Benzene	2642	50.0	52.7	105.4

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.14078

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Ethyl Benzene	2642	50.0	49.7	99.4
Toluene	2642	50.0	52.4	104.8
Xylenes, Total	2642	150	160	106.7
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,792	95.8
Acenaphthylene	1207	5000	5,040	100.8
Anthracene	1207	5000	5,183	103.7
Benzo(a)anthracene	1207	5000	5,118	102.4
Benzo(b)fluoranthene	1207	5000	4,872	97.4
Benzo(k)fluoranthene	1207	5000	4,870	97.4
Benzo(a)pyrene	1207	5000	4,920	98.4
Benzo(ghi)perylene	1207	5000	5,057	101.1
Chrysene	1207	5000	5,092	101.8
Dibenzo(a,h)anthracene	1207	5000	4,995	99.9
Fluoranthene	1207	5000	5,169	103.4
Fluorene	1207	5000	5,000	100.0
Indeno(1,2,3-cd)pyrene	1207	5000	5,131	102.6
Naphthalene	1207	5000	4,753	95.1
Phenanthrene	1207	5000	5,074	101.5
Pyrene	1207	5000	5,056	101.1
Surr: p-Terphenyl	1207	5000	4,919	98.4
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,808	96.2
Acenaphthylene	1207	5000	5,094	101.9
Anthracene	1207	5000	5,118	102.4
Benzo(a)anthracene	1207	5000	5,155	103.1
Benzo(b)fluoranthene	1207	5000	4,881	97.6
Benzo(k)fluoranthene	1207	5000	5,079	101.6
Benzo(a)pyrene	1207	5000	4,873	97.5
Benzo(ghi)perylene	1207	5000	5,112	102.2
Chrysene	1207	5000	5,105	102.1
Dibenzo(a,h)anthracene	1207	5000	4,988	99.8
Fluoranthene	1207	5000	5,046	100.9
Fluorene	1207	5000	4,960	99.2

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.14078

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Indeno(1,2,3-cd)pyrene	1207	5000	5,068	101.4
Naphthalene	1207	5000	4,798	96.0
Phenanthrene	1207	5000	5,130	102.6
Pyrene	1207	5000	4,954	99.1
Surr: p-Terphenyl	1207	5000	4,949	99.0
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,856	97.1
Acenaphthylene	1207	5000	4,994	99.9
Anthracene	1207	5000	5,106	102.1
Benzo(a)anthracene	1207	5000	5,117	102.3
Benzo(b)fluoranthene	1207	5000	4,842	96.8
Benzo(k)fluoranthene	1207	5000	4,932	98.6
Benzo(a)pyrene	1207	5000	4,832	96.6
Benzo(ghi)perylene	1207	5000	5,104	102.1
Chrysene	1207	5000	5,096	101.9
Dibenzo(a,h)anthracene	1207	5000	4,966	99.3
Fluoranthene	1207	5000	5,044	100.9
Fluorene	1207	5000	4,953	99.1
Indeno(1,2,3-cd)pyrene	1207	5000	4,980	99.6
Naphthalene	1207	5000	4,701	94.0
Phenanthrene	1207	5000	5,055	101.1
Pyrene	1207	5000	4,914	98.3
Surr: p-Terphenyl	1207	5000	5,009	100.2
PNA CMPDS - 8310 AQUEOUS				
Chrysene	1208	5000	5,078	101.6
PNA CMPDS - 8310 AQUEOUS				
Chrysene	1208	5000	5,175	103.5

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.14078

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA		1148	<0.0050	mg/L	0.0050	SW 7060
Arsenic, GFAA		1148	<0.0050	mg/L	0.0050	SW 7060
Barium, ICP	2201	3769	<0.020	mg/L	0.020	SW 6010B
Barium, ICP	2205	3774	<0.020	mg/L	0.020	SW 6010B
Cadmium, ICP	2201	3737	<0.010	mg/L	0.010	SW 6010B
Cadmium, ICP	2205	3741	<0.010	mg/L	0.010	SW 6010B
Chromium, ICP	2201	3746	<0.040	mg/L	0.040	SW 6010B
Chromium, ICP	2205	3752	<0.040	mg/L	0.040	SW 6010B
Lead, GFAA		2174	<0.0050	mg/L	0.0050	SW 7421
Lead, GFAA		2174	<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
Mercury, CVAA	1189	1095	<0.0002	mg/L	0.0002	SW 7470A
Mercury, CVAA	1189	1095	<0.0002	mg/L	0.0002	SW 7470A
Selenium, GFAA		859	<0.005	mg/L	0.005	SW 7740
Selenium, GFAA		859	<0.005	mg/L	0.005	SW 7740
Silver, AA	1016	995	<0.040	mg/L	0.040	SW 7760
Silver, AA	1017	995	<0.040	mg/L	0.040	SW 7760
PCBs 8082 Aqueous						SW 8082
PCB-1016	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1221	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1232	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1242	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1248	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1254	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1260	371	703	<0.0005	mg/L	0.5	SW 8082
Surr: Tetrachloroxylene (TCX)	371	703	50.0	%	22-154	SW 8082
Surr: Decachlorobiphenyl (DCB)	371	703	53.0	%	23-154	SW 8082
UST VOLATILES 8260 - AQUEOUS						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.

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/10/1998

NET Job Number: 98.14078

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Benzene		2642	<1.0	ug/L	1.0	SW 8260A
Ethyl Benzene		2642	<1.0	ug/L	1.0	SW 8260A
Toluene		2642	<1.0	ug/L	1.0	SW 8260A
Xylenes, Total		2642	<1.0	ug/L	1.0	SW 8260A
Surr: Dibromofluoromethane		2642	99.8	%	75-130	SW 8260A
Surr: Toluene-d8		2642	104.2	%	85-117	SW 8260A
Surr: Bromofluorobenzene		2642	102.2	%	80-116	SW 8260A
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Acenaphthylene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Anthracene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Benzo(a)anthracene	409	1206	<0.00013	mg/L	0.00013	SW 8310
Benzo(b)fluoranthene	409	1206	<0.00018	mg/L	0.00018	SW 8310
Benzo(k)fluoranthene	409	1206	<0.00017	mg/L	0.00017	SW 8310
Benzo(a)pyrene	409	1206	<0.00023	mg/L	0.00023	SW 8310
Benzo(ghi)perylene	409	1206	<0.00076	mg/L	0.00076	SW 8310
Chrysene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Dibenzo(a,h)anthracene	409	1206	<0.00030	mg/L	0.00030	SW 8310
Fluoranthene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Fluorene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Indeno(1,2,3-cd)pyrene	409	1206	<0.00043	mg/L	0.00043	SW 8310
Naphthalene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Phenanthrene	409	1206	<0.0010	mg/L	0.0010	SW 8310
Pyrene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Surr: p-Terphenyl	409	1206	92.3	%	43-125	SW 8310
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Acenaphthylene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Anthracene	409	1207	<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.

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.14078

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Benzo(a)anthracene	409	1207	<0.00013	mg/L	0.00013	SW 8310
Benzo(b)fluoranthene	409	1207	<0.00018	mg/L	0.00018	SW 8310
Benzo(k)fluoranthene	409	1207	<0.00017	mg/L	0.00017	SW 8310
Benzo(a)pyrene	409	1207	<0.00023	mg/L	0.00023	SW 8310
Benzo(ghi)perylene	409	1207	<0.00076	mg/L	0.00076	SW 8310
Chrysene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Dibenzo(a,h)anthracene	409	1207	<0.00030	mg/L	0.00030	SW 8310
Fluoranthene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Fluorene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Indeno(1,2,3-cd)pyrene	409	1207	<0.00043	mg/L	0.00043	SW 8310
Naphthalene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Phenanthrene	409	1207	<0.0010	mg/L	0.0010	SW 8310
Pyrene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Surr: p-Terphenyl	409	1207	90.8	%	43-125	SW 8310

Advisory Control Limits for Blanks:

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

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.14078

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA		1148	0.0500	0.0544	108.8
Barium, ICP	2201	3769	5.00	5.44	108.8
Barium, ICP	2205	3774	0.200	0.198	99.0
Cadmium, ICP	2201	3737	2.50	2.57	102.8
Cadmium, ICP	2205	3741	0.100	0.094	94.0
Chromium, ICP	2201	3746	5.00	5.53	110.6
Chromium, ICP	2205	3752	0.20	0.198	99.0
Lead, GFAA		2174	0.0200	0.0214	107.0
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
Mercury, CVAA	1189	1095	0.0025	0.00260	104.0
Mercury, CVAA	1189	1095	0.0025	0.00260	104.0
Mercury, CVAA		1095	0.0020	0.00214	107.0
Selenium, GFAA		859	0.0500	0.0586	117.2
Silver, AA	1016	995	0.10	0.091	91.0
Silver, AA	1017	995	0.10	0.095	95.0
PCBs 8082 Aqueous					
PCB-1016	371	703	500	449	89.8
PCB-1260	371	703	500	427	85.4
Surr: Tetrachloroxylene (TCX)	371	703	100	45	45.0
Surr: Decachlorobiphenyl (DCB)	371	703	100	64	64.0
UST VOLATILES 8260 - AQUEOUS					
Benzene		2642	20.0	22.6	113.0
Ethyl Benzene		2642	20.0	21.4	107.0
Toluene		2642	20.0	22.9	114.5
Xylenes, Total		2642	60.0	68.0	113.3
Surr: Dibromofluoromethane		2642	50.0	50.4	100.8
Surr: Toluene-d8		2642	50.0	56.0	112.0
Surr: Bromofluorobenzene		2642	50.0	53.6	107.2
PNA CMPDS - 8310 AQUEOUS					

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.14078

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Acenaphthene	409	1206	0.001	0.000870	87.0
Acenaphthylene	409	1206	0.001	0.000962	96.2
Anthracene	409	1206	0.001	0.000945	94.5
Benzo(a)anthracene	409	1206	0.001	0.000946	94.6
Benzo(b)fluoranthene	409	1206	0.001	0.000867	86.7
Benzo(k)fluoranthene	409	1206	0.001	0.000909	90.9
Benzo(a)pyrene	409	1206	0.001	0.000865	86.5
Benzo(ghi)perylene	409	1206	0.001	0.000985	98.5
Chrysene	409	1206	0.001	0.000955	95.5
Dibenzo(a,h)anthracene	409	1206	0.001	0.000936	93.6
Fluoranthene	409	1206	0.001	0.000970	97.0
Fluorene	409	1206	0.001	0.000938	93.8
Indeno(1,2,3-cd)pyrene	409	1206	0.001	0.000858	85.8
Naphthalene	409	1206	0.001	0.000955	95.5
Phenanthrene	409	1206	0.001	0.000854	85.4
Pyrene	409	1206	0.001	0.000958	95.8
Surr: p-Terphenyl	409	1206	2000	1,797	89.8
PNA CMPDS - 8310 AQUEOUS					
Acenaphthene	409	1207	0.001	0.000926	92.6
Acenaphthylene	409	1207	0.001	0.000976	97.6
Anthracene	409	1207	0.001	0.00102	102.0
Benzo(a)anthracene	409	1207	0.001	0.00103	103.0
Benzo(b)fluoranthene	409	1207	0.001	0.000964	96.4
Benzo(k)fluoranthene	409	1207	0.001	0.000964	96.4
Benzo(a)pyrene	409	1207	0.001	0.000903	90.3
Benzo(ghi)perylene	409	1207	0.001	0.000991	99.1
Chrysene	409	1207	0.001	0.00101	101.0
Dibenzo(a,h)anthracene	409	1207	0.001	0.000972	97.2
Fluoranthene	409	1207	0.001	0.000998	99.8
Fluorene	409	1207	0.001	0.000980	98.0
Indeno(1,2,3-cd)pyrene	409	1207	0.001	0.00104	104.0

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/10/1998

NET Job Number: 98.14078

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Naphthalene	409	1207	0.001	0.000902	90.2
Phenanthrene	409	1207	0.001	0.0010	100.0
Pyrene	409	1207	0.001	0.000973	97.3
Surr: p-Terphenyl	409	1207	2000	1,922	96.1

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QUALITY CONTROL REPORT

DUPLICATES

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/10/1998

NET Job Number: 98.14078

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
pH		1719	4.91	4.82	units	1.8
pH		1719	6.91	6.86	units	0.7

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

RPD - Relative Percent Difference

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

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

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

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials"

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

(7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

(8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.

(9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ENSR Corp
ADDRESS 740 Pasquinelli Westmont
PHONE (630) 887-1700 FAX (630) 850-5307
PROJECT NAME/LOCATION ComEd / Waukegan
PROJECT NUMBER 1801-023
PROJECT MANAGER Wei-Lin Feng

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

SAMPLED BY (PRINT NAME) Brian McReynolds — SIGNATURE Brian McReynolds
(PRINT NAME) — SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: pH	BNA	PCB	RCRA Metals	BTEX
10/29/98	11:15	MW-1	W			3		1		4	X	X	X	X	X
↓	13:00	MW-2	↓			↓		↓		↓	↓	↓	↓	↓	↓
	10:30	MW-3													
	14:00	MW-4													
	15:00	MW-5													
	15:45	MW-6													
↓	9:30	MW-7	↓			↓		↓		↓	↓	↓	↓	↓	↓

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No ___

Is this work being conducted for regulatory enforcement action? Yes ___ No ___

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other ___ None ___

COMMENTS

~~Date~~ pH rec'd past hold time

MW-1
MW-3
MW-7

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO FIELD FILTERED? ~~YES / NO~~ N/A

COC SEALS PRESENT AND INTACT? (YES) / NO VOLATILES FREE OF HEADSPACE? YES / (NO)

TEMPERATURE UPON RECEIPT: 2.3°C w/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 ___ DATE ___

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Brian McReynolds	10/29/98	19:00			10/30/98	1245	P. Merrill

METHOD OF SHIPMENT: NET

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

MWG13-15_45926

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(800) 807-2877

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

11/11/1998

NET Job Number: 98.13995

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-Waukegan; 1801-023-610

Sample Number	Sample Description	Date Taken	Date Received
500396	B23 (1-3)	10/27/1998	10/29/1998
500397	S7	10/27/1998	10/29/1998
500398	B3 (1-3)	10/27/1998	10/29/1998
500399	S4	10/27/1998	10/29/1998
500400	S5	10/27/1998	10/29/1998
500401	S3	10/27/1998	10/29/1998
500402	S2	10/27/1998	10/29/1998
500403	B18 (1-3)	10/27/1998	10/29/1998
500404	S15	10/28/1998	10/29/1998
500405	S14	10/28/1998	10/29/1998
500406	S13	10/28/1998	10/29/1998
500407	B12 (1-3)	10/28/1998	10/29/1998
500408	S9	10/28/1998	10/29/1998
500409	S8	10/28/1998	10/29/1998

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500396

NET Job No.: 98.13995

Sample Description: B23 (1-3)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 08:10
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.66	units	11/06/1998	0.10	nwg		195	SW 9045B
Solids, Total	81.2	%	11/04/1998	0.1	aks		2527	SM 2540
Arsenic, GFAA	4.9	mg/kg dw	11/07/1998	0.62	mhp	237	673	SW 7060
Barium, ICP	17	mg/kg dw	11/10/1998	1.2	kdw	1171	2194	SW 6010B
Cadmium, ICP	0.62	mg/kg dw	11/09/1998	0.62	kdw	1171	2178	SW 6010B
Chromium, ICP	15	mg/kg dw	11/09/1998	2.5	kdw	1171	2163	SW 6010B
Lead, ICP	18	mg/kg dw	11/05/1998	4.9	kdw	1171	2393	SW 6010B
Mercury, CVAA	0.099	mg/kg dw	11/06/1998	0.049	sep	666	770	SW 7471A
Selenium, GFAA	<0.31	mg/kg dw	11/08/1998	0.31	jtt	237	562	SW 7740
Silver, AA	<2.5	mg/kg dw	11/03/1998	2.5	sep	493	570	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.006	mg/kg dw	11/05/1998	0.006	jap		76	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/05/1998	0.006	jap		76	SW 8260A
Toluene	<0.006	mg/kg dw	11/05/1998	0.006	jap		76	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/05/1998	0.006	jap		76	SW 8260A
Dibromofluoromethane (Surr)	84.6	%	11/05/1998	81-129	jap		76	SW 8260A
Toluene-d8 (Surr)	86.4	%	11/05/1998	74-129	jap		76	SW 8260A
4-Bromofluoromethane (Surr)	94.6	%	11/05/1998	70-130	jap		76	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/05/1998		mmv	769		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS								
Acenaphthene	0.028	mg/kg dw	11/07/1998	0.025	keh	769	1832	SW 8310
Acenaphthylene	<0.025	mg/kg dw	11/07/1998	0.025	keh	769	1832	SW 8310
Anthracene	0.11	mg/kg dw	11/07/1998	0.049	keh	769	1832	SW 8310
Benzo(a)anthracene	0.18	mg/kg dw	11/07/1998	0.0032	keh	769	1832	SW 8310
Benzo(b)fluoranthene	0.11	mg/kg dw	11/07/1998	0.0044	keh	769	1832	SW 8310

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500396

NET Job No.: 98.13995

Sample Description: B23 (1-3)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 08:10
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	0.087	mg/kg dw	11/07/1998	0.0042	keh	769	1832	SW 8310
Benzo(a)pyrene	0.20	mg/kg dw	11/07/1998	0.0057	keh	769	1832	SW 8310
Benzo(ghi)perylene	0.14	mg/kg dw	11/07/1998	0.049	keh	769	1832	SW 8310
Chrysene	0.15	mg/kg dw	11/07/1998	0.04	keh	769	1832	SW 8310
Dibenzo(a,h)anthracene	0.020	mg/kg dw	11/07/1998	0.007	keh	769	1832	SW 8310
Fluoranthene	0.41	mg/kg dw	11/07/1998	0.025	keh	769	1832	SW 8310
Fluorene	0.041	mg/kg dw	11/07/1998	0.025	keh	769	1832	SW 8310
Indeno(1,2,3-cd)pyrene	0.10	mg/kg dw	11/07/1998	0.011	keh	769	1832	SW 8310
Naphthalene	0.068	mg/kg dw	11/07/1998	0.031	keh	769	1832	SW 8310
Phenanthrene	0.25	mg/kg dw	11/07/1998	0.049	keh	769	1832	SW 8310
Pyrene	0.39	mg/kg dw	11/07/1998	0.025	keh	769	1832	SW 8310
Surr: p-Terphenyl	Masked		11/07/1998	43-125	keh	769	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.049	mg/kg dw	11/06/1998	0.049	tls	381	60	SW 8082
PCB-1221	<0.049	mg/kg dw	11/06/1998	0.049	tls	381	60	SW 8082
PCB-1232	<0.049	mg/kg dw	11/06/1998	0.049	tls	381	60	SW 8082
PCB-1242	<0.049	mg/kg dw	11/06/1998	0.049	tls	381	60	SW 8082
PCB-1248	<0.049	mg/kg dw	11/06/1998	0.049	tls	381	60	SW 8082
PCB-1254	<0.049	mg/kg dw	11/06/1998	0.049	tls	381	60	SW 8082
PCB-1260	<0.049	mg/kg dw	11/06/1998	0.049	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	87.0	%	11/06/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	81.0	%	11/06/1998	NA	tls	381	60	SW 8082

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500397

NET Job No.: 98.13995

Sample Description: S7
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 13:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.15		units	11/06/1998	0.10	nwg		195	SW 9045B
Solids, Total	72.5		%	11/04/1998	0.1	aks		2527	SM 2540
Arsenic, GFAA	5.2		mg/kg dw	11/07/1998	0.69	mhp	237	673	SW 7060
Barium, ICP	207		mg/kg dw	11/10/1998	1.4	kdw	1171	2194	SW 6010B
Cadmium, ICP	2.6		mg/kg dw	11/09/1998	0.69	kdw	1171	2178	SW 6010B
Chromium, ICP	29		mg/kg dw	11/09/1998	2.8	kdw	1171	2163	SW 6010B
Lead, ICP	70		mg/kg dw	11/09/1998	5.5	kdw	1171	2401	SW 6010B
Mercury, CVAA	0.072		mg/kg dw	11/06/1998	0.055	sep	666	770	SW 7471A
Selenium, GFAA	0.76		mg/kg dw	11/08/1998	0.34	jtt	237	562	SW 7740
Silver, AA	<2.8		mg/kg dw	11/03/1998	2.8	sep	493	570	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/02/1998		wna	245		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<69		mg/kg dw	11/04/1998	69	out	245	491	SW 8015M
TPH as Diesel	1,290	PT	mg/kg dw	11/04/1998	69	out	245	491	SW 8015M
TPH as Oil	<69		mg/kg dw	11/04/1998	69	out	245	491	SW 8015M
N-octacosane (TPH surr)	93.0		%	11/04/1998		out	245	491	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.007		mg/kg dw	11/05/1998	0.007	jap		76	SW 8260A
Ethylbenzene	<0.007		mg/kg dw	11/05/1998	0.007	jap		76	SW 8260A
Toluene	<0.007		mg/kg dw	11/05/1998	0.007	jap		76	SW 8260A
Xylenes, Total	<0.007		mg/kg dw	11/05/1998	0.007	jap		76	SW 8260A
Dibromofluoromethane (Surr)	87.2		%	11/05/1998	81-129	jap		76	SW 8260A
Toluene-d8 (Surr)	92.8		%	11/05/1998	74-129	jap		76	SW 8260A
4-Bromofluoromethane (Surr)	91.0		%	11/05/1998	70-130	jap		76	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	767		SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500397

NET Job No.: 98.13995

Sample Description: S7
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 13:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<2.5	mg/kg dw	11/07/1998	0.028	keh	767	1832	SW 8310
Acenaphthylene	<2.5	mg/kg dw	11/07/1998	0.028	keh	767	1832	SW 8310
Anthracene	<5.0	mg/kg dw	11/07/1998	0.055	keh	767	1832	SW 8310
Benzo(a)anthracene	<5.7	mg/kg dw	11/07/1998	0.0036	keh	767	1832	SW 8310
Benzo(b)fluoranthene	<0.45	mg/kg dw	11/07/1998	0.0050	keh	767	1832	SW 8310
Benzo(k)fluoranthene	<0.42	mg/kg dw	11/07/1998	0.0047	keh	767	1832	SW 8310
Benzo(a)pyrene	<0.57	mg/kg dw	11/07/1998	0.0063	keh	767	1832	SW 8310
Benzo(ghi)perylene	<5.0	mg/kg dw	11/07/1998	0.055	keh	767	1832	SW 8310
Chrysene	<4	mg/kg dw	11/07/1998	0.04	keh	767	1832	SW 8310
Dibenzo(a,h)anthracene	<0.7	mg/kg dw	11/07/1998	0.008	keh	767	1832	SW 8310
Fluoranthene	<2.5	mg/kg dw	11/07/1998	0.028	keh	767	1832	SW 8310
Fluorene	<2.5	mg/kg dw	11/07/1998	0.028	keh	767	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<1.1	mg/kg dw	11/07/1998	0.012	keh	767	1832	SW 8310
Naphthalene	15	mg/kg dw	11/07/1998	0.034	keh	767	1832	SW 8310
Phenanthrene	7.3	mg/kg dw	11/07/1998	0.055	keh	767	1832	SW 8310
Pyrene	<2.5	mg/kg dw	11/07/1998	0.028	keh	767	1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	767	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.055	mg/kg dw	11/06/1998	0.055	tls	381	60	SW 8082
PCB-1221	<0.055	mg/kg dw	11/06/1998	0.055	tls	381	60	SW 8082
PCB-1232	<0.055	mg/kg dw	11/06/1998	0.055	tls	381	60	SW 8082
PCB-1242	<0.055	mg/kg dw	11/06/1998	0.055	tls	381	60	SW 8082
PCB-1248	<0.055	mg/kg dw	11/06/1998	0.055	tls	381	60	SW 8082
PCB-1254	0.207	mg/kg dw	11/06/1998	0.055	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500397

NET Job No.: 98.13995

Sample Description: S7
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 13:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PCB-1260	<0.055	mg/kg dw	11/06/1998	0.055	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	70.0	%	11/06/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	81.0	%	11/06/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500398

NET Job No.: 98.13995

Sample Description: B3 (1-3)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 13:50
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.41	units	11/06/1998	0.10	nwg	195	SW 9045B
Solids, Total	86.1	%	11/04/1998	0.1	aks	2527	SM 2540
Arsenic, GFAA	4.2	mg/kg dw	11/07/1998	0.58	mhp	237 673	SW 7060
Barium, ICP	38	mg/kg dw	11/10/1998	1.2	kdw	1171 2194	SW 6010B
Cadmium, ICP	0.84	mg/kg dw	11/09/1998	0.58	kdw	1171 2178	SW 6010B
Chromium, ICP	14	mg/kg dw	11/09/1998	2.3	kdw	1171 2163	SW 6010B
Lead, ICP	21	mg/kg dw	11/09/1998	4.6	kdw	1171 2401	SW 6010B
Mercury, CVAA	0.050	mg/kg dw	11/06/1998	0.046	sep	666 770	SW 7471A
Selenium, GFAA	<0.29	mg/kg dw	11/08/1998	0.29	jtt	237 562	SW 7740
Silver, AA	<2.3	mg/kg dw	11/03/1998	2.3	sep	493 570	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/05/1998	0.006	jap	76	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/05/1998	0.006	jap	76	SW 8260A
Toluene	<0.006	mg/kg dw	11/05/1998	0.006	jap	76	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/05/1998	0.006	jap	76	SW 8260A
Dibromofluoromethane (Surr)	95.8	%	11/05/1998	81-129	jap	76	SW 8260A
Toluene-d8 (Surr)	84.4	%	11/05/1998	74-129	jap	76	SW 8260A
4-Bromofluoromethane (Surr)	80.4	%	11/05/1998	70-130	jap	76	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.23	mg/kg dw	11/07/1998	0.023	keh	768 1832	SW 8310
Acenaphthylene	<0.23	mg/kg dw	11/07/1998	0.023	keh	768 1832	SW 8310
Anthracene	<1.1	mg/kg dw	11/07/1998	0.046	keh	768 1832	SW 8310
Benzo(a)anthracene	0.46	mg/kg dw	11/07/1998	0.0030	keh	768 1832	SW 8310
Benzo(b)fluoranthene	0.22	mg/kg dw	11/07/1998	0.0042	keh	768 1832	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

11/11/1998

Sample No. : 500398

NET Job No.: 98.13995

Sample Description: B3 (1-3)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 13:50
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	0.15	mg/kg dw	11/07/1998	0.0039	keh	768	1832	SW 8310
Benzo(a)pyrene	0.24	mg/kg dw	11/07/1998	0.0053	keh	768	1832	SW 8310
Benzo(ghi)perylene	<0.46	mg/kg dw	11/07/1998	0.046	keh	768	1832	SW 8310
Chrysene	<0.3	mg/kg dw	11/07/1998	0.03	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.07	mg/kg dw	11/07/1998	0.007	keh	768	1832	SW 8310
Fluoranthene	<1.4	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Fluorene	<0.46	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<0.10	mg/kg dw	11/07/1998	0.010	keh	768	1832	SW 8310
Naphthalene	1.4	mg/kg dw	11/07/1998	0.029	keh	768	1832	SW 8310
Phenanthrene	1.5	mg/kg dw	11/07/1998	0.046	keh	768	1832	SW 8310
Pyrene	<1.9	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Surr: p-Terphenyl	Masked		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1221	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1232	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1242	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1248	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1254	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1260	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	65.0	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	90.0	%	11/07/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500399

NET Job No.: 98.13995

Sample Description: S4
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.10	units	11/06/1998	0.10	nwg	195	SW 9045B
Solids, Total	96.5	%	11/04/1998	0.1	aks	2527	SM 2540
Arsenic, GFAA	3.7	mg/kg dw	11/07/1998	0.52	mhp	237 673	SW 7060
Barium, ICP	124	mg/kg dw	11/10/1998	1.0	kdw	1171 2194	SW 6010B
Cadmium, ICP	6.2	mg/kg dw	11/09/1998	0.52	kdw	1171 2178	SW 6010B
Chromium, ICP	104	mg/kg dw	11/09/1998	2.1	kdw	1171 2163	SW 6010B
Lead, ICP	48	mg/kg dw	11/09/1998	4.1	kdw	1171 2401	SW 6010B
Mercury, CVAA	<0.041	mg/kg dw	11/10/1998	0.041	sep	668 772	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	11/08/1998	0.26	jtt	237 562	SW 7740
Silver, AA	<2.1	mg/kg dw	11/03/1998	2.1	sep	493 570	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		11/02/1998		wna	245	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<518	mg/kg dw	11/04/1998	52	out	245 491	SW 8015M
TPH as Diesel	<518	mg/kg dw	11/04/1998	52	out	245 491	SW 8015M
TPH as Oil	14,900 PT	mg/kg dw	11/04/1998	52	out	245 491	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	11/05/1998	0.005	jap	76	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	11/05/1998	0.005	jap	76	SW 8260A
Toluene	<0.005	mg/kg dw	11/05/1998	0.005	jap	76	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	11/05/1998	0.005	jap	76	SW 8260A
Dibromofluoromethane (Surr)	98.2	%	11/05/1998	81-129	jap	76	SW 8260A
Toluene-d8 (Surr)	83.6	%	11/05/1998	74-129	jap	76	SW 8260A
4-Bromofluoromethane (Surr)	89.6	%	11/05/1998	70-130	jap	76	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500399

NET Job No.: 98.13995

Sample Description: S4
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<0.94	mg/kg dw	11/07/1998	0.021	keh	768	1832	SW 8310
Acenaphthylene	<0.94	mg/kg dw	11/07/1998	0.021	keh	768	1832	SW 8310
Anthracene	<1.8	mg/kg dw	11/07/1998	0.041	keh	768	1832	SW 8310
Benzo(a)anthracene	<1.1	mg/kg dw	11/07/1998	0.0027	keh	768	1832	SW 8310
Benzo(b)fluoranthene	<0.49	mg/kg dw	11/07/1998	0.0037	keh	768	1832	SW 8310
Benzo(k)fluoranthene	<0.16	mg/kg dw	11/07/1998	0.0035	keh	768	1832	SW 8310
Benzo(a)pyrene	<0.22	mg/kg dw	11/07/1998	0.0048	keh	768	1832	SW 8310
Benzo(ghi)perylene	<1.8	mg/kg dw	11/07/1998	0.041	keh	768	1832	SW 8310
Chrysene	<1	mg/kg dw	11/07/1998	0.03	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.3	mg/kg dw	11/07/1998	0.006	keh	768	1832	SW 8310
Fluoranthene	<0.94	mg/kg dw	11/07/1998	0.021	keh	768	1832	SW 8310
Fluorene	<0.94	mg/kg dw	11/07/1998	0.021	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<0.40	mg/kg dw	11/07/1998	0.0089	keh	768	1832	SW 8310
Naphthalene	<1.2	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Phenanthrene	<1.8	mg/kg dw	11/07/1998	0.041	keh	768	1832	SW 8310
Pyrene	<0.94	mg/kg dw	11/07/1998	0.021	keh	768	1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS	ELV							
PCB-1016	<0.41	mg/kg dw	11/07/1998	0.041	tls	381	60	SW 8082
PCB-1221	<0.41	mg/kg dw	11/07/1998	0.041	tls	381	60	SW 8082
PCB-1232	<0.41	mg/kg dw	11/07/1998	0.041	tls	381	60	SW 8082
PCB-1242	<0.41	mg/kg dw	11/07/1998	0.041	tls	381	60	SW 8082
PCB-1248	<0.41	mg/kg dw	11/07/1998	0.041	tls	381	60	SW 8082
PCB-1254	<0.41	mg/kg dw	11/07/1998	0.041	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500399

NET Job No.: 98.13995

Sample Description: S4
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PCB-1260	<0.41	mg/kg dw	11/07/1998	0.041	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	123.0	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	95.0	%	11/07/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

Mr. Wei-Lin Feng
ENSR
740 Pasquinelli Drive
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11/11/1998

Sample No. : 500400

NET Job No.: 98.13995

Sample Description: S5
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:25
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.76		units	11/06/1998	0.10	nwg		195	SW 9045B
Solids, Total	90.3		%	11/04/1998	0.1	aks		2527	SM 2540
Arsenic, GFAA	5.3		mg/kg dw	11/07/1998	0.55	mhp	237	673	SW 7060
Barium, ICP	42		mg/kg dw	11/10/1998	1.1	kdw	1171	2194	SW 6010B
Cadmium, ICP	13		mg/kg dw	11/09/1998	0.55	kdw	1171	2178	SW 6010B
Chromium, ICP	13		mg/kg dw	11/09/1998	2.2	kdw	1171	2163	SW 6010B
Lead, ICP	33		mg/kg dw	11/09/1998	4.4	kdw	1171	2401	SW 6010B
Mercury, CVAA	<0.044		mg/kg dw	11/10/1998	0.044	sep	668	772	SW 7471A
Selenium, GFAA	<0.28		mg/kg dw	11/08/1998	0.28	jtt	237	562	SW 7740
Silver, AA	<2.2		mg/kg dw	11/06/1998	2.2	sep	495	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/02/1998		wna	245		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	472	PT	mg/kg dw	11/04/1998	55	out	245	491	SW 8015M
TPH as Diesel	<55		mg/kg dw	11/04/1998	55	out	245	491	SW 8015M
TPH as Oil	4,710	PT	mg/kg dw	11/04/1998	55	out	245	491	SW 8015M
N-octacosane (TPH surr)	42.0		%	11/04/1998		out	245	491	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Toluene	<0.006		mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Dibromofluoromethane (Surr)	87.8		%	11/06/1998	81-129	jap		78	SW 8260A
Toluene-d8 (Surr)	89.0		%	11/06/1998	74-129	jap		78	SW 8260A
4-Bromofluoromethane (Surr)	95.2		%	11/06/1998	70-130	jap		78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	768		SW 3540C

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500400

NET Job No.: 98.13995

Sample Description: S5
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:25
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<0.2	mg/kg dw	11/07/1998	0.022	keh	768	1832	SW 8310
Acenaphthylene	<0.2	mg/kg dw	11/07/1998	0.022	keh	768	1832	SW 8310
Anthracene	<0.61	mg/kg dw	11/07/1998	0.044	keh	768	1832	SW 8310
Benzo(a)anthracene	<0.81	mg/kg dw	11/07/1998	0.0029	keh	768	1832	SW 8310
Benzo(b)fluoranthene	0.078	mg/kg dw	11/07/1998	0.0040	keh	768	1832	SW 8310
Benzo(k)fluoranthene	<0.31	mg/kg dw	11/07/1998	0.0038	keh	768	1832	SW 8310
Benzo(a)pyrene	<0.14	mg/kg dw	11/07/1998	0.0051	keh	768	1832	SW 8310
Benzo(ghi)perylene	<0.4	mg/kg dw	11/07/1998	0.044	keh	768	1832	SW 8310
Chrysene	<0.2	mg/kg dw	11/07/1998	0.03	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.06	mg/kg dw	11/07/1998	0.007	keh	768	1832	SW 8310
Fluoranthene	<0.75	mg/kg dw	11/07/1998	0.022	keh	768	1832	SW 8310
Fluorene	<0.2	mg/kg dw	11/07/1998	0.022	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<0.08	mg/kg dw	11/07/1998	0.0095	keh	768	1832	SW 8310
Naphthalene	<0.2	mg/kg dw	11/07/1998	0.028	keh	768	1832	SW 8310
Phenanthrene	1.2	mg/kg dw	11/07/1998	0.044	keh	768	1832	SW 8310
Pyrene	0.41	mg/kg dw	11/07/1998	0.022	keh	768	1832	SW 8310
Surr: p-Terphenyl	Masked		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1221	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1232	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1242	0.075	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1248	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1254	0.266	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500400

NET Job No.: 98.13995

Sample Description: S5
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:25
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.044	mg/kg dw	11/07/1998	0.044	tls	381 60	SW 8082
Decachlorobiphenyl (Surr)	87.0	%	11/07/1998	NA	tls	381 60	SW 8082
2,4,5,6-TCMX (Surr)	91.0	%	11/07/1998	NA	tls	381 60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500401

NET Job No.: 98.13995

Sample Description: S3
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:35
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.72	units	11/06/1998	0.10	nwg	195	SW 9045B
Solids, Total	85.3	%	11/04/1998	0.1	aks	2527	SM 2540
Arsenic, GFAA	1.6	mg/kg dw	11/07/1998	0.59	mhp	237 673	SW 7060
Barium, ICP	9.5	mg/kg dw	11/10/1998	1.2	kdw	1171 2194	SW 6010B
Cadmium, ICP	<0.59	mg/kg dw	11/09/1998	0.59	kdw	1171 2178	SW 6010B
Chromium, ICP	7.6	mg/kg dw	11/09/1998	2.3	kdw	1171 2163	SW 6010B
Lead, ICP	11	mg/kg dw	11/09/1998	4.7	kdw	1171 2401	SW 6010B
Mercury, CVAA	<0.047	mg/kg dw	11/06/1998	0.047	sep	666 770	SW 7471A
Selenium, GFAA	<0.29	mg/kg dw	11/08/1998	0.29	jtt	237 562	SW 7740
Silver, AA	<2.3	mg/kg dw	11/06/1998	2.3	sep	495 572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		11/02/1998		wna	245	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<59	mg/kg dw	11/04/1998	59	out	245 491	SW 8015M
TPH as Diesel	<59	mg/kg dw	11/04/1998	59	out	245 491	SW 8015M
TPH as Oil	<59	mg/kg dw	11/04/1998	59	out	245 491	SW 8015M
N-octacosane (TPH surr)	97.0	%	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/05/1998	0.006	jap	76	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/05/1998	0.006	jap	76	SW 8260A
Toluene	<0.006	mg/kg dw	11/05/1998	0.006	jap	76	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/05/1998	0.006	jap	76	SW 8260A
Dibromofluoromethane (Surr)	91.6	%	11/05/1998	81-129	jap	76	SW 8260A
Toluene-d8 (Surr)	94.6	%	11/05/1998	74-129	jap	76	SW 8260A
4-Bromofluoromethane (Surr)	97.8	%	11/05/1998	70-130	jap	76	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C

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ANALYTICAL REPORT

Mr. Wei-Lin Feng
ENSR
740 Pasquinelli Drive
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11/11/1998

Sample No. : 500401

NET Job No.: 98.13995

Sample Description: S3
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:35
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.023		mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Acenaphthylene	<0.023		mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Anthracene	<0.093	MX	mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Benzo(a)anthracene	<0.10	MX	mg/kg dw	11/07/1998	0.0030	keh	768	1832	SW 8310
Benzo(b)fluoranthene	0.018		mg/kg dw	11/07/1998	0.0042	keh	768	1832	SW 8310
Benzo(k)fluoranthene	0.023		mg/kg dw	11/07/1998	0.0040	keh	768	1832	SW 8310
Benzo(a)pyrene	0.030		mg/kg dw	11/07/1998	0.0054	keh	768	1832	SW 8310
Benzo(ghi)perylene	<0.047		mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Chrysene	0.041		mg/kg dw	11/07/1998	0.04	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	0.0083		mg/kg dw	11/07/1998	0.007	keh	768	1832	SW 8310
Fluoranthene	0.10		mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Fluorene	0.033		mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	0.021		mg/kg dw	11/07/1998	0.010	keh	768	1832	SW 8310
Naphthalene	0.042		mg/kg dw	11/07/1998	0.029	keh	768	1832	SW 8310
Phenanthrene	0.11		mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Pyrene	0.056		mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Surr: p-Terphenyl	Masked			11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1221	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1232	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1242	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1248	0.073		mg/kg dw	11/11/1998	0.047	tls	381	62	SW 8082
PCB-1254	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500401

NET Job No.: 98.13995

Sample Description: S3
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:35
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PCB-1260	<0.047	mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	80.0	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	11/07/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500402

NET Job No.: 98.13995

Sample Description: S2
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	6.93	units	11/06/1998	0.10	nwg		195	SW 9045B
Solids, Total	55.3	%	11/04/1998	0.1	aks		2527	SM 2540
Arsenic, GFAA	6.5	mg/kg dw	11/07/1998	0.90	mhp	238	673	SW 7060
Barium, ICP	150	mg/kg dw	11/09/1998	1.8	kdw	1172	2194	SW 6010B
Cadmium, ICP	6.0	mg/kg dw	11/09/1998	0.90	kdw	1172	2178	SW 6010B
Chromium, ICP	29	mg/kg dw	11/09/1998	3.6	kdw	1172	2163	SW 6010B
Lead, ICP	130	mg/kg dw	11/09/1998	7.2	kdw	1172	2401	SW 6010B
Mercury, CVAA	0.16	mg/kg dw	11/06/1998	0.072	sep	666	770	SW 7471A
Selenium, GFAA	0.51	mg/kg dw	11/08/1998	0.45	jtt	238	562	SW 7740
Silver, AA	<3.6	mg/kg dw	11/06/1998	3.6	sep	495	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		11/02/1998		wna	245		SW 8015M
TPH MODIFIED 8015								
TPH as Gas	<904	mg/kg dw	11/04/1998	90	out	245	491	SW 8015M
TPH as Diesel	94,000 PT	mg/kg dw	11/04/1998	90	out	245	491	SW 8015M
TPH as Oil	<904	mg/kg dw	11/04/1998	90	out	245	491	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/04/1998		out	245	491	SW 8015M
UST VOLATILES NON-AQUEOUS								
Benzene	0.020	mg/kg dw	11/06/1998	0.009	jap		78	SW 8260A
Ethylbenzene	0.36	mg/kg dw	11/06/1998	0.009	jap		78	SW 8260A
Toluene	0.61	mg/kg dw	11/06/1998	0.009	jap		78	SW 8260A
Xylenes, Total	3.6	mg/kg dw	11/06/1998	0.009	jap		78	SW 8260A
Dibromofluoromethane (Surr)	94.6	%	11/06/1998	81-129	jap		78	SW 8260A
Toluene-d8 (Surr)	95.6	%	11/06/1998	74-129	jap		78	SW 8260A
4-Bromofluoromethane (Surr)	64.0	%	11/06/1998	70-130	jap		78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768		SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500402

NET Job No.: 98.13995

Sample Description: S2
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<2.9	mg/kg dw	11/07/1998	0.036	keh	768	1832	SW 8310
Acenaphthylene	<2.9	mg/kg dw	11/07/1998	0.036	keh	768	1832	SW 8310
Anthracene	<85	mg/kg dw	11/07/1998	0.072	keh	768	1832	SW 831C
Benzo(a)anthracene	<5.8	mg/kg dw	11/07/1998	0.0047	keh	768	1832	SW 8310
Benzo(b)fluoranthene	<0.52	mg/kg dw	11/07/1998	0.0065	keh	768	1832	SW 8310
Benzo(k)fluoranthene	<0.49	mg/kg dw	11/07/1998	0.0061	keh	768	1832	SW 8310
Benzo(a)pyrene	<0.66	mg/kg dw	11/07/1998	0.0083	keh	768	1832	SW 8310
Benzo(ghi)perylene	<5.8	mg/kg dw	11/07/1998	0.072	keh	768	1832	SW 8310
Chrysene	<4	mg/kg dw	11/07/1998	0.05	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.8	mg/kg dw	11/07/1998	0.01	keh	768	1832	SW 8310
Fluoranthene	<52	mg/kg dw	11/07/1998	0.036	keh	768	1832	SW 8310
Fluorene	<16	mg/kg dw	11/07/1998	0.036	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<1.3	mg/kg dw	11/07/1998	0.016	keh	768	1832	SW 8310
Naphthalene	65	mg/kg dw	11/07/1998	0.045	keh	768	1832	SW 8310
Phenanthrene	<8.9	mg/kg dw	11/07/1998	0.072	keh	768	1832	SW 8310
Pyrene	<42	mg/kg dw	11/07/1998	0.036	keh	768	1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS	ELV							
PCB-1016	<0.22	mg/kg dw	11/07/1998	0.072	tls	381	60	SW 8082
PCB-1221	<0.22	mg/kg dw	11/07/1998	0.072	tls	381	60	SW 8082
PCB-1232	<0.22	mg/kg dw	11/07/1998	0.072	tls	381	60	SW 8082
PCB-1242	<0.22	mg/kg dw	11/07/1998	0.072	tls	381	60	SW 8082
PCB-1248	<0.22	mg/kg dw	11/07/1998	0.072	tls	381	60	SW 8082
PCB-1254	0.24	mg/kg dw	11/07/1998	0.072	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500402

NET Job No.: 98.13995

Sample Description: S2
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PCB-1260	<0.22	mg/kg dw	11/07/1998	0.072	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	80.0	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	68.0	%	11/07/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500403

NET Job No.: 98.13995

Sample Description: B18 (1-3)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:50
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.24	units	11/06/1998	0.10	nwg		195	SW 9045B
Solids, Total	87.9	%	11/04/1998	0.1	aks		2527	SM 2540
Arsenic, GFAA	6.9	mg/kg dw	11/07/1998	0.57	mhp	238	673	SW 7060
Barium, ICP	739	mg/kg dw	11/10/1998	1.1	kdw	1171	2194	SW 6010B
Cadmium, ICP	1.5	mg/kg dw	11/09/1998	0.57	kdw	1171	2178	SW 6010B
Chromium, ICP	9.8	mg/kg dw	11/09/1998	2.3	kdw	1171	2163	SW 6010B
Lead, ICP	24	mg/kg dw	11/09/1998	4.6	kdw	1171	2401	SW 6010B
Mercury, CVAA	0.093	mg/kg dw	11/06/1998	0.046	sep	666	770	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/08/1998	0.28	jtt	238	562	SW 7740
Silver, AA	<2.3	mg/kg dw	11/06/1998	2.3	sep	495	572	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.006	mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Toluene	<0.006	mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Dibromofluoromethane (Surr)	82.2	%	11/06/1998	81-129	jap		78	SW 8260A
Toluene-d8 (Surr)	85.8	%	11/06/1998	74-129	jap		78	SW 8260A
4-Bromofluoromethane (Surr)	92.6	%	11/06/1998	70-130	jap		78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<0.1	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Acenaphthylene	<0.1	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Anthracene	<0.27	mg/kg dw	11/07/1998	0.046	keh	768	1832	SW 8310
Benzo(a)anthracene	<0.77	mg/kg dw	11/07/1998	0.0030	keh	768	1832	SW 8310
Benzo(b)fluoranthene	0.24	mg/kg dw	11/07/1998	0.0041	keh	768	1832	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

11/11/1998

Sample No. : 500403

NET Job No.: 98.13995

Sample Description: B18 (1-3)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/27/1998
Time Taken: 14:50
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.42	mg/kg dw	11/07/1998	0.0039	keh	768	1832	SW 8310
Benzo(a)pyrene	0.28	mg/kg dw	11/07/1998	0.0052	keh	768	1832	SW 8310
Benzo(ghi)perylene	0.26	mg/kg dw	11/07/1998	0.046	keh	768	1832	SW 8310
Chrysene	0.36	mg/kg dw	11/07/1998	0.03	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.064	mg/kg dw	11/07/1998	0.007	keh	768	1832	SW 8310
Fluoranthene	<0.49	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Fluorene	<0.1	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	0.081	mg/kg dw	11/07/1998	0.0098	keh	768	1832	SW 8310
Naphthalene	0.73	mg/kg dw	11/07/1998	0.028	keh	768	1832	SW 8310
Phenanthrene	0.86	mg/kg dw	11/07/1998	0.046	keh	768	1832	SW 8310
Pyrene	0.56	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Surr: p-Terphenyl	Masked		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1221	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1232	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1242	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1248	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1254	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1260	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	77.0	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	85.0	%	11/07/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

Mr. Wei-Lin Feng
ENSR
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Westmont, IL 60559

11/11/1998

Sample No. : 500404

NET Job No.: 98.13995

Sample Description: S15
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:40
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.08	units	11/06/1998	0.10	nwg	195	SW 9045B
Solids, Total	76.6	%	11/04/1998	0.1	aks	2527	SM 2540
Arsenic, GFAA	3.3	mg/kg dw	11/07/1998	0.65	mhp	238 673	SW 7060
Barium, ICP	470	mg/kg dw	11/09/1998	1.3	kdw	1172 2194	SW 6010B
Cadmium, ICP	1.4	mg/kg dw	11/09/1998	0.65	kdw	1172 2178	SW 6010B
Chromium, ICP	12	mg/kg dw	11/09/1998	2.6	kdw	1172 2163	SW 6010B
Lead, ICP	42	mg/kg dw	11/09/1998	5.2	kdw	1172 2401	SW 6010B
Mercury, CVAA	0.056	mg/kg dw	11/06/1998	0.052	sep	666 770	SW 7471A
Selenium, GFAA	0.38	mg/kg dw	11/08/1998	0.33	jtt	238 562	SW 7740
Silver, AA	<2.6	mg/kg dw	11/06/1998	2.6	sep	495 572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		11/02/1998		wna	245	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<653	mg/kg dw	11/04/1998	65	out	245 491	SW 8015M
TPH as Diesel	87,600 PT	mg/kg dw	11/04/1998	65	out	245 491	SW 8015M
TPH as Oil	<653	mg/kg dw	11/04/1998	65	out	245 491	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	11/06/1998	0.007	jap	77	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	11/06/1998	0.007	jap	77	SW 8260A
Toluene	<0.007	mg/kg dw	11/06/1998	0.007	jap	77	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	11/06/1998	0.007	jap	77	SW 8260A
Dibromofluoromethane (Surr)	87.2	%	11/06/1998	81-129	jap	77	SW 8260A
Toluene-d8 (Surr)	90.2	%	11/06/1998	74-129	jap	77	SW 8260A
4-Bromofluoromethane (Surr)	100.0	%	11/06/1998	70-130	jap	77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500404

NET Job No.: 98.13995

Sample Description: S15
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:40
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<8.7	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Acenaphthylene	<25	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Anthracene	<100	mg/kg dw	11/07/1998	0.052	keh	768	1832	SW 8310
Benzo(a)anthracene	<21	mg/kg dw	11/07/1998	0.0034	keh	768	1832	SW 8310
Benzo(b)fluoranthene	<5.0	mg/kg dw	11/07/1998	0.0047	keh	768	1832	SW 8310
Benzo(k)fluoranthene	<1.1	mg/kg dw	11/07/1998	0.0044	keh	768	1832	SW 8310
Benzo(a)pyrene	<0.54	mg/kg dw	11/07/1998	0.0060	keh	768	1832	SW 8310
Benzo(ghi)perylene	<4.7	mg/kg dw	11/07/1998	0.052	keh	768	1832	SW 8310
Chrysene	<6.7	mg/kg dw	11/07/1998	0.04	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.7	mg/kg dw	11/07/1998	0.008	keh	768	1832	SW 8310
Fluoranthene	<89	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Fluorene	65	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<0.99	mg/kg dw	11/07/1998	0.011	keh	768	1832	SW 8310
Naphthalene	<34	mg/kg dw	11/07/1998	0.033	keh	768	1832	SW 8310
Phenanthrene	<72	mg/kg dw	11/07/1998	0.052	keh	768	1832	SW 8310
Pyrene	<157	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS	ELV							
PCB-1016	<0.3	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1221	<0.3	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1232	<0.3	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1242	<0.3	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1248	<0.3	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1254	<0.3	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500404

NET Job No.: 98.13995

Sample Description: S15
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:40
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.3	mg/kg dw	11/07/1998	0.052	tls	381 60	SW 8082
Decachlorobiphenyl (Surr)	101.0	%	11/07/1998	NA	tls	381 60	SW 8082
2,4,5,6-TCMX (Surr)	54.0	%	11/07/1998	NA	tls	381 60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500405

NET Job No.: 98.13995

Sample Description: S14
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.75		units	11/06/1998	0.10	nwg		195	SW 9045B
Solids, Total	79.4		%	11/04/1998	0.1	aks		2527	SM 2540
Arsenic, GFAA	5.3		mg/kg dw	11/07/1998	0.63	mhp	238	673	SW 7060
Barium, ICP	605		mg/kg dw	11/09/1998	1.3	kdw	1172	2194	SW 6010B
Cadmium, ICP	<1.2	MX	mg/kg dw	11/09/1998	0.63	kdw	1172	2178	SW 6010B
Chromium, ICP	26		mg/kg dw	11/09/1998	2.5	kdw	1172	2163	SW 6010B
Lead, ICP	26		mg/kg dw	11/09/1998	5.0	kdw	1172	2401	SW 6010B
Mercury, CVAA	0.087		mg/kg dw	11/06/1998	0.050	sep	666	770	SW 7471A
Selenium, GFAA	2.4		mg/kg dw	11/08/1998	0.31	jtt	238	562	SW 7740
Silver, AA	<2.5		mg/kg dw	11/06/1998	2.5	sep	495	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/02/1998		wna	245		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<63		mg/kg dw	11/04/1998	63	out	245	491	SW 8015M
TPH as Diesel	<63		mg/kg dw	11/04/1998	63	out	245	491	SW 8015M
TPH as Oil	2,240	PT	mg/kg dw	11/04/1998	63	out	245	491	SW 8015M
N-octacosane (TPH surr)	78.0		%	11/04/1998		out	245	491	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Toluene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Dibromofluoromethane (Surr)	89.4		%	11/06/1998	81-129	jap		77	SW 8260A
Toluene-d8 (Surr)	85.4		%	11/06/1998	74-129	jap		77	SW 8260A
4-Bromofluoromethane (Surr)	84.0		%	11/06/1998	70-130	jap		77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	768		SW 3540C

MX : Dilution required due to sample matrix; analyte is not detected.
PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500405

NET Job No.: 98.13995

Sample Description: S14
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<1.0	mg/kg dw	11/07/1998	0.025	keh	768	1832	SW 8310
Acenaphthylene	<1.0	mg/kg dw	11/07/1998	0.025	keh	768	1832	SW 8310
Anthracene	<2.0	mg/kg dw	11/07/1998	0.050	keh	768	1832	SW 8310
Benzo(a)anthracene	<9.6	mg/kg dw	11/07/1998	0.0033	keh	768	1832	SW 8310
Benzo(b)fluoranthene	<0.67	mg/kg dw	11/07/1998	0.0045	keh	768	1832	SW 8310
Benzo(k)fluoranthene	<1.2	mg/kg dw	11/07/1998	0.0043	keh	768	1832	SW 8310
Benzo(a)pyrene	<1.1	mg/kg dw	11/07/1998	0.0058	keh	768	1832	SW 8310
Benzo(ghi)perylene	<2.0	mg/kg dw	11/07/1998	0.050	keh	768	1832	SW 8310
Chrysene	<2	mg/kg dw	11/07/1998	0.04	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.92	mg/kg dw	11/07/1998	0.008	keh	768	1832	SW 8310
Fluoranthene	<1.6	mg/kg dw	11/07/1998	0.025	keh	768	1832	SW 8310
Fluorene	<1.0	mg/kg dw	11/07/1998	0.025	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<0.44	mg/kg dw	11/07/1998	0.011	keh	768	1832	SW 8310
Naphthalene	<1.2	mg/kg dw	11/07/1998	0.031	keh	768	1832	SW 8310
Phenanthrene	<2.0	mg/kg dw	11/07/1998	0.050	keh	768	1832	SW 8310
Pyrene	<1.6	mg/kg dw	11/07/1998	0.025	keh	768	1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.050	mg/kg dw	11/07/1998	0.050	tls	381	60	SW 8082
PCB-1221	<0.050	mg/kg dw	11/07/1998	0.050	tls	381	60	SW 8082
PCB-1232	<0.050	mg/kg dw	11/07/1998	0.050	tls	381	60	SW 8082
PCB-1242	<0.050	mg/kg dw	11/07/1998	0.050	tls	381	60	SW 8082
PCB-1248	<0.050	mg/kg dw	11/07/1998	0.050	tls	381	60	SW 8082
PCB-1254	<0.050	mg/kg dw	11/07/1998	0.050	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500405

NET Job No.: 98.13995

Sample Description: S14
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.050	mg/kg dw	11/07/1998	0.050	tls	381 60	SW 8082
Decachlorobiphenyl (Surr)	80.0	%	11/07/1998	NA	tls	381 60	SW 8082
2,4,5,6-TCMX (Surr)	68.0	%	11/07/1998	NA	tls	381 60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500406

NET Job No.: 98.13995

Sample Description: S13
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:50
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.44		units	11/06/1998	0.10	nwg		196	SW 9045B
Solids, Total	77.0		%	11/04/1998	0.1	aks		2527	SM 2540
Arsenic, GFAA	3.9		mg/kg dw	11/07/1998	0.65	mhp	238	673	SW 7060
Barium, ICP	377		mg/kg dw	11/09/1998	1.3	kdw	1172	2194	SW 6010B
Cadmium, ICP	<1.3	MX	mg/kg dw	11/09/1998	0.65	kdw	1172	2178	SW 6010B
Chromium, ICP	18		mg/kg dw	11/09/1998	2.6	kdw	1172	2163	SW 6010B
Lead, ICP	18		mg/kg dw	11/09/1998	5.2	kdw	1172	2401	SW 6010B
Mercury, CVAA	<0.052		mg/kg dw	11/06/1998	0.052	sep	666	770	SW 7471A
Selenium, GFAA	0.34		mg/kg dw	11/08/1998	0.32	jtt	238	562	SW 7740
Silver, AA	<2.6		mg/kg dw	11/06/1998	2.6	sep	495	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/02/1998		wna	245		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<65		mg/kg dw	11/04/1998	65	out	245	491	SW 8015M
TPH as Diesel	<65		mg/kg dw	11/04/1998	65	out	245	491	SW 8015M
TPH as Oil	11,200	PT	mg/kg dw	11/04/1998	65	out	245	491	SW 8015M
N-octacosane (TPH surr)	64.0		%	11/04/1998		out	245	491	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Toluene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Dibromofluoromethane (Surr)	88.0		%	11/06/1998	81-129	jap		77	SW 8260A
Toluene-d8 (Surr)	88.4		%	11/06/1998	74-129	jap		77	SW 8260A
4-Bromofluoromethane (Surr)	99.2		%	11/06/1998	70-130	jap		77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	768		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.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500406

NET Job No.: 98.13995

Sample Description: S13
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:50
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<2.6	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Acenaphthylene	<2.6	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Anthracene	<5.2	mg/kg dw	11/07/1998	0.052	keh	768	1832	SW 8310
Benzo(a)anthracene	<8.1	mg/kg dw	11/07/1998	0.0034	keh	768	1832	SW 8310
Benzo(b)fluoranthene	<1.7	mg/kg dw	11/07/1998	0.0047	keh	768	1832	SW 8310
Benzo(k)fluoranthene	<32	mg/kg dw	11/07/1998	0.0044	keh	768	1832	SW 8310
Benzo(a)pyrene	<0.79	mg/kg dw	11/07/1998	0.0060	keh	768	1832	SW 8310
Benzo(ghi)perylene	<5.2	mg/kg dw	11/07/1998	0.052	keh	768	1832	SW 8310
Chrysene	<4	mg/kg dw	11/07/1998	0.04	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.8	mg/kg dw	11/07/1998	0.008	keh	768	1832	SW 8310
Fluoranthene	<2.6	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Fluorene	<2.6	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<1.1	mg/kg dw	11/07/1998	0.011	keh	768	1832	SW 8310
Naphthalene	<3.2	mg/kg dw	11/07/1998	0.032	keh	768	1832	SW 8310
Phenanthrene	<5.2	mg/kg dw	11/07/1998	0.052	keh	768	1832	SW 8310
Pyrene	<2.6	mg/kg dw	11/07/1998	0.026	keh	768	1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.052	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1221	<0.052	mg/kg dw	11/11/1998	0.052	tls	381	62	SW 8082
PCB-1232	<0.052	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1242	<0.052	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1248	<0.052	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082
PCB-1254	<0.052	mg/kg dw	11/07/1998	0.052	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500406

NET Job No.: 98.13995

Sample Description: S13
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 07:50
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.052	mg/kg dw	11/07/1998	0.052	tls	381 60	SW 8082
Decachlorobiphenyl (Surr)	Masked	%	11/07/1998	NA	tls	381 60	SW 8082
2,4,5,6-TCMX (Surr)	71.0	%	11/07/1998	NA	tls	381 60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500407

NET Job No.: 98.13995

Sample Description: B12 (1-3)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 08:35
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.01		units	11/06/1998	0.10	nwg		196	SW 9045B
Solids, Total	84.4		%	11/04/1998	0.1	aks		2527	SM 2540
Arsenic, GFAA	7.6		mg/kg dw	11/07/1998	0.59	mhp	238	673	SW 7060
Barium, ICP	509		mg/kg dw	11/10/1998	1.2	kdw	1172	2194	SW 6010B
Cadmium, ICP	1.4		mg/kg dw	11/09/1998	0.59	kdw	1172	2178	SW 6010B
Chromium, ICP	154		mg/kg dw	11/09/1998	2.4	kdw	1172	2163	SW 6010B
Lead, ICP	77		mg/kg dw	11/09/1998	4.7	kdw	1172	2401	SW 6010B
Mercury, CVAA	<0.047		mg/kg dw	11/06/1998	0.047	sep	666	770	SW 7471A
Selenium, GFAA	0.43		mg/kg dw	11/08/1998	0.30	jtt	238	562	SW 7740
Silver, AA	<2.4		mg/kg dw	11/06/1998	2.4	sep	495	572	SW 7760
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Toluene	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Dibromofluoromethane (Surr)	107.0		%	11/06/1998	81-129	jap		77	SW 8260A
Toluene-d8 (Surr)	94.8		%	11/06/1998	74-129	jap		77	SW 8260A
4-Bromofluoromethane (Surr)	79.2		%	11/06/1998	70-130	jap		77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/03/1998		mmv	768		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.024		mg/kg dw	11/07/1998	0.024	keh	768	1832	SW 8310
Acenaphthylene	<0.024		mg/kg dw	11/07/1998	0.024	keh	768	1832	SW 8310
Anthracene	<0.047		mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Benzo(a)anthracene	<0.017	MX	mg/kg dw	11/07/1998	0.0031	keh	768	1832	SW 8310
Benzo(b)fluoranthene	0.0098		mg/kg dw	11/07/1998	0.0043	keh	768	1832	SW 8310

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500407

NET Job No.: 98.13995

Sample Description: B12 (1-3)
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 08:35
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	0.0059		mg/kg dw	11/07/1998	0.0040	keh	768	1832	SW 8310
Benzo(a)pyrene	0.013		mg/kg dw	11/07/1998	0.0055	keh	768	1832	SW 8310
Benzo(ghi)perylene	<0.047		mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Chrysene	<0.04		mg/kg dw	11/07/1998	0.04	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.007		mg/kg dw	11/07/1998	0.007	keh	768	1832	SW 8310
Fluoranthene	<0.045	MX	mg/kg dw	11/07/1998	0.024	keh	768	1832	SW 8310
Fluorene	<0.024		mg/kg dw	11/07/1998	0.024	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<0.010		mg/kg dw	11/07/1998	0.010	keh	768	1832	SW 8310
Naphthalene	0.11		mg/kg dw	11/07/1998	0.030	keh	768	1832	SW 8310
Phenanthrene	0.073		mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Pyrene	<0.024		mg/kg dw	11/07/1998	0.024	keh	768	1832	SW 8310
Surr: p-Terphenyl	106.2		%	11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1221	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1232	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1242	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1248	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1254	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1260	<0.047		mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	67.0		%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	83.0		%	11/07/1998	NA	tls	381	60	SW 8082

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500408

NET Job No.: 98.13995

Sample Description: S9
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 09:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.61	units	11/06/1998	0.10	nwg	196	SW 9045B
Solids, Total	85.6	%	11/04/1998	0.1	aks	2527	SM 2540
Arsenic, GFAA	9.8	mg/kg dw	11/07/1998	0.58	mhp	238 673	SW 7060
Barium, ICP	152	mg/kg dw	11/10/1998	1.2	kdw	1172 2194	SW 6010B
Cadmium, ICP	11	mg/kg dw	11/09/1998	0.58	kdw	1172 2178	SW 6010B
Chromium, ICP	16	mg/kg dw	11/09/1998	2.3	kdw	1172 2163	SW 6010B
Lead, ICP	49	mg/kg dw	11/09/1998	4.7	kdw	1172 2401	SW 6010B
Mercury, CVAA	0.41	mg/kg dw	11/06/1998	0.047	sep	666 770	SW 7471A
Selenium, GFAA	0.42	mg/kg dw	11/08/1998	0.29	jtt	238 562	SW 7740
Silver, AA	<2.3	mg/kg dw	11/06/1998	2.3	sep	495 572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		11/02/1998		wna	245	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<234	mg/kg dw	11/04/1998	58	out	245 491	SW 8015M
TPH as Diesel	<234	mg/kg dw	11/04/1998	58	out	245 491	SW 8015M
TPH as Oil	12,500 PT	mg/kg dw	11/04/1998	58	out	245 491	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Toluene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Dibromofluoromethane (Surr)	96.2	%	11/06/1998	81-129	jap	77	SW 8260A
Toluene-d8 (Surr)	82.2	%	11/06/1998	74-129	jap	77	SW 8260A
4-Bromofluoromethane (Surr)	94.4	%	11/06/1998	70-130	jap	77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500408

NET Job No.: 98.13995

Sample Description: S9
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 09:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<0.92	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Acenaphthylene	<0.92	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Anthracene	<1.9	mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Benzo(a)anthracene	<0.67	mg/kg dw	11/07/1998	0.0030	keh	768	1832	SW 8310
Benzo(b)fluoranthene	<0.28	mg/kg dw	11/07/1998	0.0042	keh	768	1832	SW 8310
Benzo(k)fluoranthene	<0.23	mg/kg dw	11/07/1998	0.0040	keh	768	1832	SW 8310
Benzo(a)pyrene	<0.22	mg/kg dw	11/07/1998	0.0054	keh	768	1832	SW 8310
Benzo(ghi)perylene	<1.9	mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Chrysene	<2	mg/kg dw	11/07/1998	0.04	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<0.3	mg/kg dw	11/07/1998	0.007	keh	768	1832	SW 8310
Fluoranthene	<0.92	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Fluorene	<0.92	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<0.40	mg/kg dw	11/07/1998	0.010	keh	768	1832	SW 8310
Naphthalene	<1.2	mg/kg dw	11/07/1998	0.029	keh	768	1832	SW 8310
Phenanthrene	<1.9	mg/kg dw	11/07/1998	0.047	keh	768	1832	SW 8310
Pyrene	<0.92	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.047	mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1221	<0.047	mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1232	<0.047	mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1242	<0.047	mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1248	<0.047	mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
PCB-1254	<0.047	mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500408

NET Job No.: 98.13995

Sample Description: S9
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 09:45
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PCB-1260	<0.047	mg/kg dw	11/07/1998	0.047	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	Masked	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	79.0	%	11/07/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500409

NET Job No.: 98.13995

Sample Description: S8
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 11:10
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.20	units	11/06/1998	0.10	nwg	196	SW 9045B
Solids, Total	86.1	%	11/04/1998	0.1	aks	2527	SM 2540
Arsenic, GFAA	10	mg/kg dw	11/07/1998	0.58	mhp	238 673	SW 7060
Barium, ICP	139	mg/kg dw	11/10/1998	1.2	kdw	1172 2194	SW 6010B
Cadmium, ICP	6.0	mg/kg dw	11/09/1998	0.58	kdw	1172 2178	SW 6010B
Chromium, ICP	39	mg/kg dw	11/09/1998	2.3	kdw	1172 2163	SW 6010B
Lead, ICP	139	mg/kg dw	11/09/1998	4.6	kdw	1172 2401	SW 6010B
Mercury, CVAA	0.11	mg/kg dw	11/06/1998	0.046	sep	666 770	SW 7471A
Selenium, GFAA	2.2	mg/kg dw	11/08/1998	0.29	jtt	238 562	SW 7740
Silver, AA	<2.3	mg/kg dw	11/06/1998	2.3	sep	495 572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		11/02/1998		wna	245	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<1,160	mg/kg dw	11/04/1998	58	out	245 491	SW 8015M
TPH as Diesel	<1,160	mg/kg dw	11/04/1998	58	out	245 491	SW 8015M
TPH as Oil	283,000 PT	mg/kg dw	11/04/1998	58	out	245 491	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/04/1998		out	245 491	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Toluene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Dibromofluoromethane (Surr)	92.2	%	11/06/1998	81-129	jap	77	SW 8260A
Toluene-d8 (Surr)	86.2	%	11/06/1998	74-129	jap	77	SW 8260A
4-Bromofluoromethane (Surr)	96.8	%	11/06/1998	70-130	jap	77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500409

NET Job No.: 98.13995

Sample Description: S8
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 11:10
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<3.4	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Acenaphthylene	<3.4	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Anthracene	<6.9	mg/kg dw	11/07/1998	0.046	keh	768	1832	SW 8310
Benzo(a)anthracene	<3.9	mg/kg dw	11/07/1998	0.0030	keh	768	1832	SW 8310
Benzo(b)fluoranthene	<0.63	mg/kg dw	11/07/1998	0.0042	keh	768	1832	SW 8310
Benzo(k)fluoranthene	<0.58	mg/kg dw	11/07/1998	0.0039	keh	768	1832	SW 8310
Benzo(a)pyrene	<0.80	mg/kg dw	11/07/1998	0.0053	keh	768	1832	SW 8310
Benzo(ghi)perylene	<6.9	mg/kg dw	11/07/1998	0.046	keh	768	1832	SW 8310
Chrysene	<4	mg/kg dw	11/07/1998	0.03	keh	768	1832	SW 8310
Dibenzo(a,h)anthracene	<1	mg/kg dw	11/07/1998	0.007	keh	768	1832	SW 8310
Fluoranthene	<3.4	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Fluorene	<3.4	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Indeno(1,2,3-cd)pyrene	<1.5	mg/kg dw	11/07/1998	0.010	keh	768	1832	SW 8310
Naphthalene	<4.4	mg/kg dw	11/07/1998	0.029	keh	768	1832	SW 8310
Phenanthrene	<6.9	mg/kg dw	11/07/1998	0.046	keh	768	1832	SW 8310
Pyrene	<3.4	mg/kg dw	11/07/1998	0.023	keh	768	1832	SW 8310
Surr: p-Terphenyl	Diluted out		11/07/1998	43-125	keh	768	1832	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS	ELV							
PCB-1016	<0.46	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1221	<0.46	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1232	<0.46	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1242	<0.46	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1248	<0.46	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1254	<0.46	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500409

NET Job No.: 98.13995

Sample Description: S8
ComEd-Waukegan; 1801-023-610

Date Taken: 10/28/1998
Time Taken: 11:10
IEPA Cert. No. 100221

Date Received: 10/29/1998
Time Received: 10:30
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.46	mg/kg dw	11/07/1998	0.046	tls	381 60	SW 8082
Decachlorobiphenyl (Surr)	38.0	%	11/07/1998	NA	tls	381 60	SW 8082
2,4,5,6-TCMX (Surr)	72.0	%	11/07/1998	NA	tls	381 60	SW 8082

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.13995

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
pH, Non-Aqueous	195	7.00	7.00	100.0
pH, Non-Aqueous	196	7.00	7.00	100.0
Arsenic, GFAA	673	0.0250	0.0242	96.8
Barium, ICP	2194	2.00	2.07	103.5
Cadmium, ICP	2178	1.00	0.996	99.6
Chromium, ICP	2163	2.00	2.00	100.0
Lead, ICP	2393	2.00	1.91	95.5
Lead, ICP	2401	2.00	2.02	101.0
Mercury, CVAA	770	0.0025	0.00230	92.0
Mercury, CVAA	772	0.0025	0.00253	101.2
Selenium, GFAA	562	0.050	0.0506	101.2
Selenium, GFAA	562	0.050	0.0501	100.2
Silver, AA	570	0.50	0.515	103.0
Silver, AA	572	0.50	0.495	99.0
UST VOLATILES NON-AQUEOUS				
Benzene	76	50.0	51.2	102.4
Ethylbenzene	76	50.0	49.2	98.4
Toluene	76	50.0	49.3	98.6
Xylenes, Total	76	150	146	97.3
UST VOLATILES NON-AQUEOUS				
Benzene	77	50.0	53.6	107.2
Ethylbenzene	77	50.0	53.3	106.6
Toluene	77	50.0	55.2	110.4
Xylenes, Total	77	150	161	107.3
UST VOLATILES NON-AQUEOUS				
Benzene	78	50.0	54.7	109.4
Ethylbenzene	78	50.0	53.1	106.2
Toluene	78	50.0	54.9	109.8
Xylenes, Total	78	150	160	106.7
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1832	5000	4,588	91.8
Acenaphthylene	1832	5000	5,060	101.2
Anthracene	1832	5000	5,107	102.1
Benzo(a)anthracene	1832	5000	4,951	99.0

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.13995

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Benzo(b)fluoranthene	1832	5000	4,844	96.9
Benzo(k)fluoranthene	1832	5000	4,953	99.1
Benzo(a)pyrene	1832	5000	5,003	100.1
Benzo(ghi)perylene	1832	5000	4,921	98.4
Chrysene	1832	5000	4,987	99.7
Dibenzo(a,h)anthracene	1832	5000	4,928	98.6
Fluoranthene	1832	5000	4,849	97.0
Fluorene	1832	5000	4,885	97.7
Indeno(1,2,3-cd)pyrene	1832	5000	4,576	91.5
Naphthalene	1832	5000	4,627	92.5
Phenanthrene	1832	5000	4,659	93.2
Pyrene	1832	5000	4,999	100.0
Surr: p-Terphenyl	1832	5000	4,813	96.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1832	5000	4,598	92.0
Acenaphthylene	1832	5000	5,091	101.8
Anthracene	1832	5000	5,062	101.2
Benzo(a)anthracene	1832	5000	5,051	101.0
Benzo(b)fluoranthene	1832	5000	5,000	100.0
Benzo(k)fluoranthene	1832	5000	4,806	96.1
Benzo(a)pyrene	1832	5000	4,961	99.2
Benzo(ghi)perylene	1832	5000	4,943	98.9
Chrysene	1832	5000	4,972	99.4
Dibenzo(a,h)anthracene	1832	5000	4,977	99.5
Fluoranthene	1832	5000	4,889	97.8
Fluorene	1832	5000	4,901	98.0
Indeno(1,2,3-cd)pyrene	1832	5000	4,606	92.1
Naphthalene	1832	5000	4,695	93.9
Phenanthrene	1832	5000	4,694	93.9
Pyrene	1832	5000	5,064	101.3
Surr: p-Terphenyl	1832	5000	4,886	97.7
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1832	5000	4,477	89.5
Acenaphthylene	1832	5000	5,062	101.2

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.13995

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Anthracene	1832	5000	5,092	101.8
Benzo(a)anthracene	1832	5000	4,930	98.6
Benzo(b)fluoranthene	1832	5000	5,289	105.8
Benzo(k)fluoranthene	1832	5000	4,828	96.6
Benzo(a)pyrene	1832	5000	4,949	99.0
Benzo(ghi)perylene	1832	5000	4,915	98.3
Chrysene	1832	5000	4,915	98.3
Dibenzo(a,h)anthracene	1832	5000	5,003	100.1
Fluoranthene	1832	5000	4,952	99.0
Fluorene	1832	5000	4,884	97.7
Indeno(1,2,3-cd)pyrene	1832	5000	4,783	95.7
Naphthalene	1832	5000	4,808	96.2
Phenanthrene	1832	5000	4,712	94.2
Pyrene	1832	5000	5,124	102.5
Surr: p-Terphenyl	1832	5000	4,756	95.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1832	5000	4,696	93.9
Acenaphthylene	1832	5000	5,096	101.9
Anthracene	1832	5000	5,039	100.8
Benzo(a)anthracene	1832	5000	5,158	103.2
Benzo(b)fluoranthene	1832	5000	5,085	101.7
Benzo(k)fluoranthene	1832	5000	4,840	96.8
Benzo(a)pyrene	1832	5000	4,881	97.6
Benzo(ghi)perylene	1832	5000	4,897	97.9
Chrysene	1832	5000	5,027	100.5
Dibenzo(a,h)anthracene	1832	5000	4,974	99.5
Fluoranthene	1832	5000	4,931	98.6
Fluorene	1832	5000	4,888	97.8
Indeno(1,2,3-cd)pyrene	1832	5000	4,557	91.1
Naphthalene	1832	5000	4,702	94.0
Phenanthrene	1832	5000	4,767	95.3
Pyrene	1832	5000	5,159	103.2
Surr: p-Terphenyl	1832	5000	4,914	98.3
PCB'S NON-AQUEOUS				

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.13995

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
PCB-1016	60	500	489	97.8
PCB-1260	60	500	490	98.0
PCB'S NON-AQUEOUS				
PCB-1016	60	500	500	100.0
PCB-1260	60	500	479	95.8
PCB'S NON-AQUEOUS				
PCB-1016	60	500	498	99.6
PCB-1016	60	500	498	99.6
PCB-1260	60	500	457	91.4
PCB-1260	60	500	457	91.4
PCB'S NON-AQUEOUS				
PCB'S NON-AQUEOUS				
PCB'S NON-AQUEOUS				

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.13995

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	237	671	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	238	673	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1171	2194	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1172	2194	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1171	2178	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1172	2178	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1171	2163	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1172	2163	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1171	2393	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1172	2401	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	666	770	<0.040	mg/Kg	0.040	SW 7471A
Mercury, CVAA	668	772	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	237	559	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	238	562	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	493	570	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	495	572	<2.0	mg/Kg	2.0	SW 7760
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		76	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		76	<0.005	mg/Kg	0.005	SW 8260A
Toluene		76	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		76	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		76	85.8	%	81-129	SW 8260A
Toluene-d8 (Surr)		76	95.6	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		76	103.0	%	70-130	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		77	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		77	<0.005	mg/Kg	0.005	SW 8260A
Toluene		77	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		77	<0.005	mg/Kg	0.005	SW 8260A

Advisory Control Limits for Blanks:

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

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.13995

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Dibromofluoromethane (Surr)		77	101.4	%	81-129	SW 8260A
Toluene-d8 (Surr)		77	106.4	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		77	113.4	%	70-130	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		78	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		78	<0.005	mg/Kg	0.005	SW 8260A
Toluene		78	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		78	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		78	98.0	%	81-129	SW 8260A
Toluene-d8 (Surr)		78	107.4	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		78	111.2	%	70-130	SW 8260A
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Anthracene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	767	1826	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	767	1826	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	767	1826	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	767	1826	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Chrysene	767	1826	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	767	1826	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Fluorene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	767	1826	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	767	1826	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	767	1826	<0.040	mg/Kg	0.040	SW 8310
Pyrene	767	1826	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	767	1826	86.2	%	43-125	SW 8310

Advisory Control Limits for Blanks:

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ENSR
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11/11/1998

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Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Anthracene	767	1830	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	767	1830	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	767	1830	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	767	1830	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	767	1830	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	767	1830	<0.040	mg/Kg	0.040	SW 8310
Chrysene	767	1830	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	767	1830	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Fluorene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	767	1830	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	767	1830	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	767	1830	<0.040	mg/Kg	0.040	SW 8310
Pyrene	767	1830	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	767	1830	90.3	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Anthracene	768	1832	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	768	1832	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	768	1832	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	768	1832	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	768	1832	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	768	1832	<0.040	mg/Kg	0.040	SW 8310
Chrysene	768	1832	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	768	1832	<0.006	mg/Kg	0.006	SW 8310

Advisory Control Limits for Blanks:

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Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Fluoranthene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Fluorene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	768	1832	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	768	1832	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	768	1832	<0.040	mg/Kg	0.040	SW 8310
Pyrene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	768	1832	77.3	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Anthracene	769	1832	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	769	1832	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	769	1832	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	769	1832	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	769	1832	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	769	1832	<0.040	mg/Kg	0.040	SW 8310
Chrysene	769	1832	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	769	1832	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Fluorene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	769	1832	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	769	1832	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	769	1832	<0.040	mg/Kg	0.040	SW 8310
Pyrene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	769	1832	78.0	%	43-125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	381	53	<0.040	mg/Kg	0.040	SW 8082

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BLANK ANALYSIS

ENSR
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11/11/1998

NET Job Number: 98.13995

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
PCB-1242	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	381	53	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	381	53	84.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	381	53	67.0	%	NA	SW 8082

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LABORATORY CONTROL STANDARD

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11/11/1998

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Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	237	671	0.500	0.465	93.0
Arsenic, GFAA	238	673	0.0100	0.0117	117.0
Barium, ICP	1171	2194	5.00	5.09	101.8
Barium, ICP	1172	2194	5.00	5.18	103.6
Cadmium, ICP	1171	2178	2.50	2.72	108.8
Cadmium, ICP	1172	2178	2.50	2.71	108.4
Chromium, ICP	1171	2163	5.00	5.20	104.0
Chromium, ICP	1172	2163	5.00	5.80	116.0
Lead, ICP	1171	2393	5.00	5.20	104.0
Lead, ICP	1172	2401	5.00	5.80	116.0
Mercury, CVAA	666	770	0.0025	0.00248	99.2
Mercury, CVAA		770	0.0020	0.00165	82.5
Mercury, CVAA	668	772	0.0025	0.00275	110.0
Mercury, CVAA		772	0.0020	0.00204	102.0
Selenium, GFAA	237	559	0.50	0.43	86.0
Selenium, GFAA	238	562	0.50	0.60	120.0
Silver, AA	493	570	1.0	0.958	95.8
Silver, AA		570	0.10	0.095	95.0
Silver, AA	495	572	0.10	0.103	103.0
TPH MODIFIED 8015					
TPH as Gas	245	486	250	225	90.0
TPH as Diesel	245	486	250	216	86.4
TPH as Oil	245	486	250	201	80.4
N-octacosane (TPH surr)	245	486	100	117	117.0
UST VOLATILES NON-AQUEOUS					
Benzene		76	20.0	21.3	106.5
Ethylbenzene		76	20.0	20.7	103.5
Toluene		76	20.0	20.0	100.0
Xylenes, Total		76	60.0	61.4	102.3
Dibromofluoromethane (Surr)		76	50.0	49.2	98.4
Toluene-d8 (Surr)		76	50.0	53.8	107.6

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Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
4-Bromofluoromethane (Surr)		76	50.0	55.1	110.2
UST VOLATILES NON-AQUEOUS					
Benzene		77	20.0	21.8	109.0
Ethylbenzene		77	20.0	21.8	109.0
Toluene		77	20.0	20.8	104.0
Xylenes, Total		77	60.0	63.4	105.7
Dibromofluoromethane (Surr)		77	50.0	50.2	100.4
Toluene-d8 (Surr)		77	50.0	52.0	104.0
4-Bromofluoromethane (Surr)		77	50.0	56.5	113.0
UST VOLATILES NON-AQUEOUS					
Benzene		78	20.0	21.0	105.0
Ethylbenzene		78	20.0	20.7	103.5
Toluene		78	20.0	20 1	100.5
Xylenes, Total		78	60.0	61.6	102.7
Dibromofluoromethane (Surr)		78	50.0	48.1	96.2
Toluene-d8 (Surr)		78	50.0	51.4	102.8
4-Bromofluoromethane (Surr)		78	50.0	55.2	110.4
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	767	1828	0.033	0.027	81.8
Acenaphthylene	767	1828	0.033	0.028	84.8
Anthracene	767	1828	0.033	0.029	87.9
Benzo(a)anthracene	767	1828	0.033	0.027	81.8
Benzo(b)fluoranthene	767	1828	0.033	0.027	81.8
Benzo(k)fluoranthene	767	1828	0.033	0.028	84.8
Benzo(a)pyrene	767	1828	0.033	0.027	81.8
Benzo(ghi)perylene	767	1828	0.033	0.030	90.9
Chrysene	767	1828	0.033	0.029	87.9
Dibenzo(a,h)anthracene	767	1828	0.033	0.028	84.8
Fluoranthene	767	1828	0.033	0.029	87.9
Fluorene	767	1828	0.033	0.031	93.9
Indeno(1,2,3-cd)pyrene	767	1828	0.033	0.028	84.8

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Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Naphthalene	767	1828	0.033	0.031	93.9
Phenanthrene	767	1828	0.033	0.029	87.9
Pyrene	767	1828	0.033	0.033	100.0
Surr: p-Terphenyl	767	1828	2000	1,613	80.7
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	767	1830	0.033	0.032	97.0
Acenaphthylene	767	1830	0.033	0.030	90.9
Anthracene	767	1830	0.033	0.030	90.9
Benzo(a)anthracene	767	1830	0.033	0.031	93.9
Benzo(b)fluoranthene	767	1830	0.033	0.033	100.0
Benzo(k)fluoranthene	767	1830	0.033	0.029	87.9
Benzo(a)pyrene	767	1830	0.033	0.027	81.8
Benzo(ghi)perylene	767	1830	0.033	0.029	87.9
Chrysene	767	1830	0.033	0.031	93.9
Dibenzo(a,h)anthracene	767	1830	0.033	0.029	87.9
Fluoranthene	767	1830	0.033	0.032	97.0
Fluorene	767	1830	0.033	0.029	87.9
Indeno(1,2,3-cd)pyrene	767	1830	0.033	0.030	90.9
Naphthalene	767	1830	0.033	0.023	69.7
Phenanthrene	767	1830	0.033	0.030	90.9
Pyrene	767	1830	0.033	0.031	93.9
Surr: p-Terphenyl	767	1830	2000	1,705	85.3
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	768	1832	0.033	0.028	84.8
Acenaphthylene	768	1832	0.033	0.029	87.9
Anthracene	768	1832	0.033	0.030	90.9
Benzo(a)anthracene	768	1832	0.033	0.031	93.9
Benzo(b)fluoranthene	768	1832	0.033	0.028	84.8
Benzo(k)fluoranthene	768	1832	0.033	0.028	84.8
Benzo(a)pyrene	768	1832	0.033	0.029	87.9
Benzo(ghi)perylene	768	1832	0.033	0.028	84.8

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Chrysene	768	1832	0.033	0.031	93.9
Dibenzo(a,h)anthracene	768	1832	0.033	0.029	87.9
Fluoranthene	768	1832	0.033	0.030	90.9
Fluorene	768	1832	0.033	0.030	90.9
Indeno(1,2,3-cd)pyrene	768	1832	0.033	0.028	84.8
Naphthalene	768	1832	0.033	0.028	84.8
Phenanthrene	768	1832	0.033	0.029	87.9
Pyrene	768	1832	0.033	0.033	100.0
Surr: p-Terphenyl	768	1832	2000	1,742	87.1
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	769	1832	0.033	0.028	84.8
Acenaphthylene	769	1832	0.033	0.032	97.0
Anthracene	769	1832	0.033	0.028	84.8
Benzo(a)anthracene	769	1832	0.033	0.030	90.9
Benzo(b)fluoranthene	769	1832	0.033	0.025	75.8
Benzo(k)fluoranthene	769	1832	0.033	0.032	97.0
Benzo(a)pyrene	769	1832	0.033	0.030	90.9
Benzo(ghi)perylene	769	1832	0.033	0.026	78.8
Chrysene	769	1832	0.033	0.031	93.9
Dibenzo(a,h)anthracene	769	1832	0.033	0.026	78.8
Fluoranthene	769	1832	0.033	0.028	84.8
Fluorene	769	1832	0.033	0.027	81.8
Indeno(1,2,3-cd)pyrene	769	1832	0.033	0.027	81.8
Naphthalene	769	1832	0.033	0.022	66.7
Phenanthrene	769	1832	0.033	0.026	78.8
Pyrene	769	1832	0.033	0.030	90.9
Surr: p-Terphenyl	769	1832	2000	1,593	79.7
PCB'S NON-AQUEOUS					
PCB-1016	381	53	500	440	88.0
PCB-1260	381	53	500	454	90.8
Decachlorobiphenyl (Surr)	381	53	100	92	92.0

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Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
2,4,5,6-TCMX (Surr)	381	53	100	81	81.0

MWG13-15_45980

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QUALITY CONTROL REPORT

DUPLICATES

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.13995

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
pH, Non-Aqueous		195	8.66	8.64	units	0.2
pH, Non-Aqueous		196	7.44	7.52	units	1.1
Solids, Total		2527	85.3	84.3	%	1.2
Solids, Total		2527	77.6	79.4	%	2.3

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.

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

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

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials"

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

(7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

(8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.

(9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ENSR Corp
ADDRESS 140 Pasquinelli Dr. St. 24 Westmont, IL
PHONE (630) 887 1700 FAX (630) 850 5307
PROJECT NAME/LOCATION ComEd Waukegan
PROJECT NUMBER 1801023610
PROJECT MANAGER Wei-Lin Feng / Karen Dolnicek

REPORT TO: K. Dolnicek
INVOICE TO: ENSR
P.O. NO.
NET QUOTE NO.

SAMPLED BY B. Buckley (PRINT NAME) B Buckley SIGNATURE
(PRINT NAME) SIGNATURE

DATE 1998	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: PH 9045	PNAs 8310	BTEX 8260	PCBs 8081	TPH 8015	RCRA Metals (TCLP)				COMMENTS
10/27	810	B23(1-3)	S	X						2	X	X	X	X		X				NO TPH
10/27	1345	S7	S	X						2	X	X	X	X	X	X				
10/27	1350	B3 (1-3)	S	X						2	X	X	X	X		X				NO TPH
10/27	1410	S4	S	X						2	X	X	X	X	X	X				
10/27	1425	S5	S	X						2	X	X	X	X	X	X				
10/27	1435	S3	S	X						2	X	X	X	X	X	X				
10/27	1445	S2	S	X						2	X	X	X	X	X	X				
10/27	1450	B18 (1-3)	S	X						2	X	X	X	X		X				NO TPH
10/28	740	S15	S	X						2	X	X	X	X	X	X				
10/28	745	S14	S	X						2	X	X	X	X	X	X				
10/28	750	S13	S	X						2	X	X	X	X	X	X				
10/28	835	B12 (1-3)	S	X						2	X	X	X	X		X				NO TPH
10/28	945	S9	S	X						2	X	X	X	X	X	X				
10/28	1110	S8	S	X						2	X	X	X	X	X	X				
~~10/28~~	~~1130~~	S6	S	X						2	X	X	X	X	X	X				

To assist us in selecting the proper method
Is this work being conducted for regulatory compliance monitoring? Yes ___ No ___
Is this work being conducted for regulatory enforcement action? Yes ___ No ___
Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other ___ None ___

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: .3 4 w/ 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 ___ DATE ___

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
B. Buckley	10/28/98	1530			10/29/98	10:30	JDale

METHOD OF SHIPMENT: FEDEX
REMARKS:

[redacted]ORIGIN[redacted]TE [redacted]ET PR[redacted]MANAG[redacted]LLOW[redacted]CUST[redacted]OPY [redacted]

MWG13-15_45984

NET NATIONAL ENVIRONMENTAL TESTING, INC.®

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

11/11/1998

NET Job Number: 98.14072

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-Waukegan; 1801-023 ~~210~~ 610

Sample Number	Sample Description	Date Taken	Date Received
500665	B-10 (0-4')	10/29/1998	10/30/1998
500666	B-11 (0-4')	10/29/1998	10/30/1998
500667	B-9 (0-4')	10/29/1998	10/30/1998
500668	B-8 (0-4')	10/29/1998	10/30/1998
500669	B-6 (0-4')	10/29/1998	10/30/1998
500670	B-7 (0-4')	10/29/1998	10/30/1998
500671	B-1 (0-4')	10/29/1998	10/30/1998
500672	B-15 (0-4')	10/29/1998	10/30/1998
500673	B-17 (0-4')	10/29/1998	10/30/1998
500674	S-11	10/29/1998	10/30/1998
500675	X-4	10/29/1998	10/30/1998
500676	X-1	10/29/1998	10/30/1998
500677	X-2	10/29/1998	10/30/1998
500678	S-6	10/29/1998	10/30/1998

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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

11/11/1998

NET Job Number: 98.14072

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-Waukegan; 1801-023-210

Sample Number	Sample Description	Date Taken	Date Received
500679	X-3	10/29/1998	10/30/1998
500680	X-5	10/29/1998	10/30/1998
500681	X-6	10/29/1998	10/30/1998

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

11/11/1998

Sample No. : 500665

NET Job No.: 98.14072

Sample Description: B-10 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:10
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.40	units	11/06/1998	0.10	nwg		196	SW 9045B
Solids, Total	90.9	%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	5.9	mg/kg dw	11/09/1998	0.55	jtt	236	674	SW 7060
Barium, ICP	42	mg/kg dw	11/07/1998	1.1	jtt	1169	2188	SW 6010B
Cadmium, ICP	0.57	mg/kg dw	11/06/1998	0.55	jtt	1169	2174	SW 6010B
Chromium, ICP	7.6	mg/kg dw	11/06/1998	2.2	jtt	1169	2159	SW 6010B
Lead, ICP	34	mg/kg dw	11/06/1998	4.4	jtt	1169	2397	SW 6010B
Mercury, CVAA	0.053	mg/kg dw	11/06/1998	0.044	sep	666	770	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/08/1998	0.28	jtt	236	562	SW 7740
Silver, AA	<2.2	mg/kg dw	11/04/1998	2.2	sep	494	571	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.006	mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Toluene	<0.006	mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/06/1998	0.006	jap		77	SW 8260A
Dibromofluoromethane (Surr)	101.2	%	11/06/1998	81-129	jap		77	SW 8260A
Toluene-d8 (Surr)	104.4	%	11/06/1998	74-129	jap		77	SW 8260A
4-Bromofluoromethane (Surr)	109.0	%	11/06/1998	70-130	jap		77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS								
Acenaphthene	<0.022	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Acenaphthylene	<0.022	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Anthracene	<0.044	mg/kg dw	11/10/1998	0.044	keh	768	1833	SW 8310
Benzo(a)anthracene	0.051	mg/kg dw	11/10/1998	0.0029	keh	768	1833	SW 8310
Benzo(b)fluoranthene	0.031	mg/kg dw	11/10/1998	0.0040	keh	768	1833	SW 8310

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500665

NET Job No.: 98.14072

Sample Description: B-10 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:10
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	0.022	mg/kg dw	11/10/1998	0.0037	keh	768	1833	SW 8310
Benzo(a)pyrene	0.033	mg/kg dw	11/10/1998	0.0051	keh	768	1833	SW 8310
Benzo(ghi)perylene	<0.044	mg/kg dw	11/10/1998	0.044	keh	768	1833	SW 8310
Chrysene	0.047	mg/kg dw	11/10/1998	0.03	keh	768	1833	SW 8310
Dibenzo(a,h)anthracene	<0.007	mg/kg dw	11/10/1998	0.007	keh	768	1833	SW 8310
Fluoranthene	0.12	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Fluorene	<0.022	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Indeno(1,2,3-cd)pyrene	0.021	mg/kg dw	11/10/1998	0.0095	keh	768	1833	SW 8310
Naphthalene	0.041	mg/kg dw	11/10/1998	0.028	keh	768	1833	SW 8310
Phenanthrene	0.086	mg/kg dw	11/10/1998	0.044	keh	768	1833	SW 8310
Pyrene	0.074	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Surr: p-Terphenyl	113.8	%	11/10/1998	43-125	keh	768	1833	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1221	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1232	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1242	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1248	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1254	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
PCB-1260	<0.044	mg/kg dw	11/07/1998	0.044	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	63.0	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	11/07/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500666

NET Job No.: 98.14072

Sample Description: B-11 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:20
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.46	units	11/06/1998	0.10	nwg	196	SW 9045B
Solids, Total	88.8	%	11/04/1998	0.1	aks	2528	SM 2540
Arsenic, GFAA	18	mg/kg dw	11/09/1998	0.56	jtt	236 674	SW 7060
Barium, ICP	59	mg/kg dw	11/07/1998	1.1	jtt	1169 2188	SW 6010B
Cadmium, ICP	1.9	mg/kg dw	11/06/1998	0.56	jtt	1169 2174	SW 6010B
Chromium, ICP	25	mg/kg dw	11/06/1998	2.3	jtt	1169 2159	SW 6010B
Lead, ICP	64	mg/kg dw	11/06/1998	4.5	jtt	1169 2397	SW 6010B
Mercury, CVAA	0.074	mg/kg dw	11/06/1998	0.045	sep	666 770	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/08/1998	0.28	jtt	236 562	SW 7740
Silver, AA	<2.3	mg/kg dw	11/04/1998	2.3	sep	494 571	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Toluene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Dibromofluoromethane (Surr)	94.6	%	11/06/1998	81-129	jap	77	SW 8260A
Toluene-d8 (Surr)	102.6	%	11/06/1998	74-129	jap	77	SW 8260A
4-Bromofluoromethane (Surr)	101.2	%	11/06/1998	70-130	jap	77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<5.4	mg/kg dw	11/10/1998	0.023	keh	768 1833	SW 8310
Acenaphthylene	<1.8	mg/kg dw	11/10/1998	0.023	keh	768 1833	SW 8310
Anthracene	<3.6	mg/kg dw	11/10/1998	0.045	keh	768 1833	SW 8310
Benzo(a)anthracene	6.1	mg/kg dw	11/10/1998	0.0029	keh	768 1833	SW 8310
Benzo(b)fluoranthene	3.5	mg/kg dw	11/10/1998	0.0041	keh	768 1833	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

11/11/1998

Sample No. : 500666

NET Job No.: 98.14072

Sample Description: B-11 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:20
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<2.9	mg/kg dw	11/10/1998	0.0038	keh	768	1833	SW 8310
Benzo(a)pyrene	3.5	mg/kg dw	11/10/1998	0.0052	keh	768	1833	SW 8310
Benzo(ghi)perylene	4.8	mg/kg dw	11/10/1998	0.045	keh	768	1833	SW 8310
Chrysene	9.1	mg/kg dw	11/10/1998	0.03	keh	768	1833	SW 8310
Dibenzo(a,h)anthracene	0.95	mg/kg dw	11/10/1998	0.007	keh	768	1833	SW 8310
Fluoranthene	4.6	mg/kg dw	11/10/1998	0.023	keh	768	1833	SW 8310
Fluorene	<1.8	mg/kg dw	11/10/1998	0.023	keh	768	1833	SW 8310
Indeno(1,2,3-cd)pyrene	1.6	mg/kg dw	11/10/1998	0.0097	keh	768	1833	SW 8310
Naphthalene	<2.2	mg/kg dw	11/10/1998	0.028	keh	768	1833	SW 8310
Phenanthrene	23	mg/kg dw	11/10/1998	0.045	keh	768	1833	SW 8310
Pyrene	11	mg/kg dw	11/10/1998	0.023	keh	768	1833	SW 8310
Surr: p-Terphenyl	Diluted out		11/10/1998	43-125	keh	768	1833	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.045	mg/kg dw	11/07/1998	0.045	tls	381	60	SW 8082
PCB-1221	<0.045	mg/kg dw	11/07/1998	0.045	tls	381	60	SW 8082
PCB-1232	<0.045	mg/kg dw	11/07/1998	0.045	tls	381	60	SW 8082
PCB-1242	<0.045	mg/kg dw	11/07/1998	0.045	tls	381	60	SW 8082
PCB-1248	<0.045	mg/kg dw	11/07/1998	0.045	tls	381	60	SW 8082
PCB-1254	<0.045	mg/kg dw	11/07/1998	0.045	tls	381	60	SW 8082
PCB-1260	<0.045	mg/kg dw	11/07/1998	0.045	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	89.0	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	11/07/1998	NA	tls	381	60	SW 8082

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500667

NET Job No.: 98.14072

Sample Description: B-9 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.12	units	11/06/1998	0.10	nwg	196	SW 9045B
Solids, Total	86.3	%	11/04/1998	0.1	aks	2528	SM 2540
Arsenic, GFAA	16	mg/kg dw	11/09/1998	0.58	jtt	236 674	SW 7060
Barium, ICP	290	mg/kg dw	11/07/1998	1.2	jtt	1169 2188	SW 6010B
Cadmium, ICP	1.3	mg/kg dw	11/06/1998	0.58	jtt	1169 2174	SW 6010B
Chromium, ICP	22	mg/kg dw	11/06/1998	2.3	jtt	1169 2159	SW 6010B
Lead, ICP	81	mg/kg dw	11/06/1998	4.6	jtt	1169 2397	SW 6010B
Mercury, CVAA	0.27	mg/kg dw	11/06/1998	0.046	sep	666 770	SW 7471A
Selenium, GFAA	0.31	mg/kg dw	11/08/1998	0.29	jtt	236 562	SW 7740
Silver, AA	<2.3	mg/kg dw	11/04/1998	2.3	sep	494 571	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Toluene	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/06/1998	0.006	jap	77	SW 8260A
Dibromofluoromethane (Surr)	94.2	%	11/06/1998	81-129	jap	77	SW 8260A
Toluene-d8 (Surr)	102.0	%	11/06/1998	74-129	jap	77	SW 8260A
4-Bromofluoromethane (Surr)	102.6	%	11/06/1998	70-130	jap	77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<1.4	mg/kg dw	11/10/1998	0.023	keh	768 1833	SW 8310
Acenaphthylene	<1.4	mg/kg dw	11/10/1998	0.023	keh	768 1833	SW 8310
Anthracene	<2.8	mg/kg dw	11/10/1998	0.046	keh	768 1833	SW 8310
Benzo(a)anthracene	4.6	mg/kg dw	11/10/1998	0.0030	keh	768 1833	SW 8310
Benzo(b)fluoranthene	3.7	mg/kg dw	11/10/1998	0.0042	keh	768 1833	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

11/11/1998

Sample No. : 500667

NET Job No.: 98.14072

Sample Description: B-9 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	2.2	mg/kg dw	11/10/1998	0.0039	keh	768	1833	SW 8310
Benzo(a)pyrene	4.4	mg/kg dw	11/10/1998	0.0053	keh	768	1833	SW 8310
Benzo(ghi)perylene	3.0	mg/kg dw	11/10/1998	0.046	keh	768	1833	SW 8310
Chrysene	3.7	mg/kg dw	11/10/1998	0.03	keh	768	1833	SW 8310
Dibenzo(a,h)anthracene	<0.4	mg/kg dw	11/10/1998	0.007	keh	768	1833	SW 8310
Fluoranthene	9.0	mg/kg dw	11/10/1998	0.023	keh	768	1833	SW 8310
Fluorene	<1.4	mg/kg dw	11/10/1998	0.023	keh	768	1833	SW 8310
Indeno(1,2,3-cd)pyrene	2.5	mg/kg dw	11/10/1998	0.010	keh	768	1833	SW 8310
Naphthalene	<1.7	mg/kg dw	11/10/1998	0.029	keh	768	1833	SW 8310
Phenanthrene	5.2	mg/kg dw	11/10/1998	0.046	keh	768	1833	SW 8310
Pyrene	7.3	mg/kg dw	11/10/1998	0.023	keh	768	1833	SW 8310
Surr: p-Terphenyl	Diluted out		11/10/1998	43-125	keh	768	1833	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	381		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1221	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1232	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1242	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1248	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1254	<0.046	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
PCB-1260	0.057	mg/kg dw	11/07/1998	0.046	tls	381	60	SW 8082
Decachlorobiphenyl (Surr)	59.0	%	11/07/1998	NA	tls	381	60	SW 8082
2,4,5,6-TCMX (Surr)	72.0	%	11/07/1998	NA	tls	381	60	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500668

NET Job No.: 98.14072

Sample Description: B-8 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:35
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.68	units	11/06/1998	0.10	nwg		196	SW 9045B
Solids, Total	92.2	%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	6.3	mg/kg dw	11/09/1998	0.54	jtt	236	674	SW 7060
Barium, ICP	27	mg/kg dw	11/07/1998	1.1	jtt	1169	2188	SW 6010B
Cadmium, ICP	<0.54	mg/kg dw	11/06/1998	0.54	jtt	1169	2174	SW 6010B
Chromium, ICP	8.5	mg/kg dw	11/06/1998	2.2	jtt	1169	2159	SW 6010B
Lead, ICP	35	mg/kg dw	11/06/1998	4.3	jtt	1169	2397	SW 6010B
Mercury, CVAA	0.52	mg/kg dw	11/06/1998	0.043	sep	666	770	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/08/1998	0.27	jtt	236	562	SW 7740
Silver, AA	<2.2	mg/kg dw	11/04/1998	2.2	sep	494	571	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.005	mg/kg dw	11/06/1998	0.005	jap		77	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	11/06/1998	0.005	jap		77	SW 8260A
Toluene	<0.005	mg/kg dw	11/06/1998	0.005	jap		77	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	11/06/1998	0.005	jap		77	SW 8260A
Dibromofluoromethane (Surr)	95.8	%	11/06/1998	81-129	jap		77	SW 8260A
Toluene-d8 (Surr)	96.8	%	11/06/1998	74-129	jap		77	SW 8260A
4-Bromofluoromethane (Surr)	101.4	%	11/06/1998	70-130	jap		77	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV							
Acenaphthene	<0.54	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Acenaphthylene	<0.1	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Anthracene	<0.2	mg/kg dw	11/10/1998	0.043	keh	768	1833	SW 8310
Benzo(a)anthracene	0.21	mg/kg dw	11/10/1998	0.0028	keh	768	1833	SW 8310
Benzo(b)fluoranthene	0.65	mg/kg dw	11/10/1998	0.0039	keh	768	1833	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

11/11/1998

Sample No. : 500668

NET Job No.: 98.14072

Sample Description: B-8 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:35
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	0.18	mg/kg dw	11/10/1998	0.0037	keh	768	1833	SW 8310
Benzo(a)pyrene	0.31	mg/kg dw	11/10/1998	0.0050	keh	768	1833	SW 8310
Benzo(ghi)perylene	0.49	mg/kg dw	11/10/1998	0.043	keh	768	1833	SW 8310
Chrysene	0.22	mg/kg dw	11/10/1998	0.03	keh	768	1833	SW 8310
Dibenzo(a,h)anthracene	0.038	mg/kg dw	11/10/1998	0.007	keh	768	1833	SW 8310
Fluoranthene	0.98	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Fluorene	0.21	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Indeno(1,2,3-cd)pyrene	0.29	mg/kg dw	11/10/1998	0.0093	keh	768	1833	SW 8310
Naphthalene	0.16	mg/kg dw	11/10/1998	0.027	keh	768	1833	SW 8310
Phenanthrene	0.36	mg/kg dw	11/10/1998	0.043	keh	768	1833	SW 8310
Pyrene	0.76	mg/kg dw	11/10/1998	0.022	keh	768	1833	SW 8310
Surr: p-Terphenyl	Masked		11/10/1998	43-125	keh	768	1833	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.043	mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1221	<0.043	mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1232	<0.043	mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1242	<0.043	mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1248	<0.043	mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1254	<0.043	mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1260	<0.043	mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
Decachlorobiphenyl (Surr)	79.0	%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	88.0	%	11/07/1998	NA	tls	382	58	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500669

NET Job No.: 98.14072

Sample Description: B-6 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:55
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.33	units	11/06/1998	0.10	nwg	196	SW 9045B
Solids, Total	94.4	%	11/04/1998	0.1	aks	2528	SM 2540
Arsenic, GFAA	3.3	mg/kg dw	11/09/1998	0.53	jtt	236 674	SW 7060
Barium, ICP	14	mg/kg dw	11/07/1998	1.1	jtt	1169 2188	SW 6010B
Cadmium, ICP	<0.53	mg/kg dw	11/06/1998	0.53	jtt	1169 2174	SW 6010B
Chromium, ICP	5.7	mg/kg dw	11/06/1998	2.1	jtt	1169 2159	SW 6010B
Lead, ICP	10	mg/kg dw	11/06/1998	4.2	jtt	1169 2397	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	11/06/1998	0.042	sep	666 770	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	11/08/1998	0.26	jtt	236 562	SW 7740
Silver, AA	<2.1	mg/kg dw	11/04/1998	2.1	sep	494 571	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	11/06/1998	0.005	jap	78	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	11/06/1998	0.005	jap	78	SW 8260A
Toluene	<0.005	mg/kg dw	11/06/1998	0.005	jap	78	SW 8260A
Xylenes, Total	0.015	mg/kg dw	11/06/1998	0.005	jap	78	SW 8260A
Dibromofluoromethane (Surr)	89.2	%	11/06/1998	81-129	jap	78	SW 8260A
Toluene-d8 (Surr)	94.2	%	11/06/1998	74-129	jap	78	SW 8260A
4-Bromofluoromethane (Surr)	95.8	%	11/06/1998	70-130	jap	78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.06	mg/kg dw	11/10/1998	0.021	keh	768 1833	SW 8310
Acenaphthylene	<0.06	mg/kg dw	11/10/1998	0.021	keh	768 1833	SW 8310
Anthracene	<0.1	mg/kg dw	11/10/1998	0.042	keh	768 1833	SW 8310
Benzo(a)anthracene	<0.030	mg/kg dw	11/10/1998	0.0028	keh	768 1833	SW 8310
Benzo(b)fluoranthene	<0.01	mg/kg dw	11/10/1998	0.0038	keh	768 1833	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

11/11/1998

Sample No. : 500669

NET Job No.: 98.14072

Sample Description: B-6 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 09:55
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.01		mg/kg dw	11/10/1998	0.0036	keh	768	1833	SW 8310
Benzo(a)pyrene	<0.01		mg/kg dw	11/10/1998	0.0049	keh	768	1833	SW 8310
Benzo(ghi)perylene	<0.1		mg/kg dw	11/10/1998	0.042	keh	768	1833	SW 8310
Chrysene	<0.1		mg/kg dw	11/10/1998	0.03	keh	768	1833	SW 8310
Dibenzo(a,h)anthracene	<0.02		mg/kg dw	11/10/1998	0.006	keh	768	1833	SW 8310
Fluoranthene	<3.4		mg/kg dw	11/10/1998	0.021	keh	768	1833	SW 8310
Fluorene	<0.06		mg/kg dw	11/10/1998	0.021	keh	768	1833	SW 8310
Indeno(1,2,3-cd)pyrene	<0.03		mg/kg dw	11/10/1998	0.0091	keh	768	1833	SW 8310
Naphthalene	<0.08		mg/kg dw	11/10/1998	0.026	keh	768	1833	SW 8310
Phenanthrene	<0.1		mg/kg dw	11/10/1998	0.042	keh	768	1833	SW 8310
Pyrene	<0.06		mg/kg dw	11/10/1998	0.021	keh	768	1833	SW 8310
Surr: p-Terphenyl	128.6	SR	%	11/10/1998	43-125	keh	768	1833	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.042		mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1221	<0.042		mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1232	<0.042		mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1242	<0.042		mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1248	<0.042		mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1254	<0.042		mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1260	0.048		mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
Decachlorobiphenyl (Surr)	63.0		%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	70.0		%	11/07/1998	NA	tls	382	58	SW 8082

SR : Elevated surrogate recovery due to sample matrix

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500670

NET Job No.: 98.14072

Sample Description: B-7 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 10:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.06	units	11/06/1998	0.10	nwg	196	SW 9045B
Solids, Total	88.9	%	11/04/1998	0.1	aks	2528	SM 2540
Arsenic, GFAA	6.4	mg/kg dw	11/09/1998	0.56	jtt	236 674	SW 7060
Barium, ICP	247	mg/kg dw	11/07/1998	1.1	jtt	1169 2188	SW 6010B
Cadmium, ICP	<0.56	mg/kg dw	11/06/1998	0.56	jtt	1169 2174	SW 6010B
Chromium, ICP	7.6	mg/kg dw	11/06/1998	2.2	jtt	1169 2159	SW 6010B
Lead, ICP	16	mg/kg dw	11/06/1998	4.5	jtt	1169 2397	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	11/06/1998	0.045	sep	666 770	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	11/08/1998	0.28	jtt	236 562	SW 7740
Silver, AA	<2.2	mg/kg dw	11/04/1998	2.2	sep	494 571	SW 7760
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	78	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	11/06/1998	0.006	jap	78	SW 8260A
Toluene	<0.006	mg/kg dw	11/06/1998	0.006	jap	78	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	11/06/1998	0.006	jap	78	SW 8260A
Dibromofluoromethane (Surr)	92.4	%	11/06/1998	81-129	jap	78	SW 8260A
Toluene-d8 (Surr)	95.4	%	11/06/1998	74-129	jap	78	SW 8260A
4-Bromofluoromethane (Surr)	103.0	%	11/06/1998	70-130	jap	78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS	ELV						
Acenaphthene	<0.09	mg/kg dw	11/09/1998	0.022	keh	768 1834	SW 8310
Acenaphthylene	<0.09	mg/kg dw	11/09/1998	0.022	keh	768 1834	SW 8310
Anthracene	<0.2	mg/kg dw	11/09/1998	0.045	keh	768 1834	SW 8310
Benzo(a)anthracene	<0.01	mg/kg dw	11/09/1998	0.0029	keh	768 1834	SW 8310
Benzo(b)fluoranthene	<0.02	mg/kg dw	11/09/1998	0.0040	keh	768 1834	SW 8310

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500670

NET Job No.: 98.14072

Sample Description: B-7 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 10:00
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.02	mg/kg dw	11/09/1998	0.0038	keh	768	1834	SW 8310
Benzo(a)pyrene	<0.02	mg/kg dw	11/09/1998	0.0052	keh	768	1834	SW 8310
Benzo(ghi)perylene	<0.2	mg/kg dw	11/09/1998	0.045	keh	768	1834	SW 8310
Chrysene	<0.1	mg/kg dw	11/09/1998	0.03	keh	768	1834	SW 8310
Dibenzo(a,h)anthracene	<0.03	mg/kg dw	11/09/1998	0.007	keh	768	1834	SW 8310
Fluoranthene	<0.09	mg/kg dw	11/09/1998	0.022	keh	768	1834	SW 8310
Fluorene	<0.09	mg/kg dw	11/09/1998	0.022	keh	768	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.04	mg/kg dw	11/09/1998	0.0097	keh	768	1834	SW 8310
Naphthalene	<0.1	mg/kg dw	11/09/1998	0.028	keh	768	1834	SW 8310
Phenanthrene	<0.2	mg/kg dw	11/09/1998	0.045	keh	768	1834	SW 8310
Pyrene	<0.09	mg/kg dw	11/09/1998	0.022	keh	768	1834	SW 8310
Surr: p-Terphenyl	114.6	%	11/09/1998	43-125	keh	768	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.045	mg/kg dw	11/07/1998	0.045	tls	382	58	SW 8082
PCB-1221	<0.045	mg/kg dw	11/07/1998	0.045	tls	382	58	SW 8082
PCB-1232	<0.045	mg/kg dw	11/07/1998	0.045	tls	382	58	SW 8082
PCB-1242	<0.045	mg/kg dw	11/07/1998	0.045	tls	382	58	SW 8082
PCB-1248	<0.045	mg/kg dw	11/07/1998	0.045	tls	382	58	SW 8082
PCB-1254	<0.045	mg/kg dw	11/07/1998	0.045	tls	382	58	SW 8082
PCB-1260	<0.045	mg/kg dw	11/07/1998	0.045	tls	382	58	SW 8082
Decachlorobiphenyl (Surr)	69.0	%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	74.0	%	11/07/1998	NA	tls	382	58	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500671

NET Job No.: 98.14072

Sample Description: B-1 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 11:10
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	9.16	units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	94.9	%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	6.7	mg/kg dw	11/09/1998	0.53	jtt	236	674	SW 7060
Barium, ICP	601	mg/kg dw	11/07/1998	1.1	jtt	1169	2188	SW 6010B
Cadmium, ICP	1.0	mg/kg dw	11/06/1998	0.53	jtt	1169	2174	SW 6010B
Chromium, ICP	232	mg/kg dw	11/06/1998	2.1	jtt	1169	2159	SW 6010B
Lead, ICP	40	mg/kg dw	11/06/1998	4.2	jtt	1169	2397	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	11/06/1998	0.042	sep	666	770	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	11/08/1998	0.26	jtt	236	562	SW 7740
Silver, AA	<2.1	mg/kg dw	11/04/1998	2.1	sep	494	571	SW 7760
UST VOLATILES NON-AQUEOUS								
Benzene	<0.005	mg/kg dw	11/06/1998	0.005	jap		78	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	11/06/1998	0.005	jap		78	SW 8260A
Toluene	<0.005	mg/kg dw	11/06/1998	0.005	jap		78	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	11/06/1998	0.005	jap		78	SW 8260A
Dibromofluoromethane (Surr)	91.8	%	11/06/1998	81-129	jap		78	SW 8260A
Toluene-d8 (Surr)	94.4	%	11/06/1998	74-129	jap		78	SW 8260A
4-Bromofluoromethane (Surr)	102.0	%	11/06/1998	70-130	jap		78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/03/1998		mmv	768		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS								
Acenaphthene	<0.021	mg/kg dw	11/09/1998	0.021	keh	768	1834	SW 8310
Acenaphthylene	<0.021	mg/kg dw	11/09/1998	0.021	keh	768	1834	SW 8310
Anthracene	<0.042	mg/kg dw	11/09/1998	0.042	keh	768	1834	SW 8310
Benzo(a)anthracene	0.042	mg/kg dw	11/09/1998	0.0027	keh	768	1834	SW 8310
Benzo(b)fluoranthene	0.017	mg/kg dw	11/09/1998	0.0038	keh	768	1834	SW 8310

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500671

NET Job No.: 98.14072

Sample Description: B-1 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 11:10
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.027	mg/kg dw	11/09/1998	0.0036	keh	768	1834	SW 8310
Benzo(a)pyrene	0.032	mg/kg dw	11/09/1998	0.0048	keh	768	1834	SW 8310
Benzo(ghi)perylene	<0.042	mg/kg dw	11/09/1998	0.042	keh	768	1834	SW 8310
Chrysene	0.036	mg/kg dw	11/09/1998	0.03	keh	768	1834	SW 8310
Dibenzo(a,h)anthracene	0.0074	mg/kg dw	11/09/1998	0.006	keh	768	1834	SW 8310
Fluoranthene	0.030	mg/kg dw	11/09/1998	0.021	keh	768	1834	SW 8310
Fluorene	<0.021	mg/kg dw	11/09/1998	0.021	keh	768	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0091	mg/kg dw	11/09/1998	0.0091	keh	768	1834	SW 8310
Naphthalene	0.033	mg/kg dw	11/09/1998	0.026	keh	768	1834	SW 8310
Phenanthrene	0.061	mg/kg dw	11/09/1998	0.042	keh	768	1834	SW 8310
Pyrene	0.076	mg/kg dw	11/09/1998	0.021	keh	768	1834	SW 8310
Surr: p-Terphenyl	107.6	%	11/09/1998	43-125	keh	768	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.042	mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1221	<0.042	mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1232	<0.042	mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1242	<0.042	mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1248	<0.042	mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1254	<0.042	mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
PCB-1260	<0.042	mg/kg dw	11/07/1998	0.042	tls	382	58	SW 8082
Decachlorobiphenyl (Surr)	81.0	%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	85.0	%	11/07/1998	NA	tls	382	58	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500672

NET Job No.: 98.14072

Sample Description: B-15 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 11:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.42		units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	87.3		%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	13		mg/kg dw	11/09/1998	0.57	jtt	236	674	SW 7060
Barium, ICP	493		mg/kg dw	11/07/1998	1.1	jtt	1169	2188	SW 6010B
Cadmium, ICP	0.86		mg/kg dw	11/06/1998	0.57	jtt	1169	2174	SW 6010B
Chromium, ICP	126		mg/kg dw	11/06/1998	2.3	jtt	1169	2159	SW 6010B
Lead, ICP	41		mg/kg dw	11/06/1998	4.6	jtt	1169	2397	SW 6010B
Mercury, CVAA	0.055		mg/kg dw	11/06/1998	0.046	sep	666	770	SW 7471A
Selenium, GFAA	<0.29		mg/kg dw	11/08/1998	0.29	jtt	236	562	SW 7740
Silver, AA	<2.3		mg/kg dw	11/04/1998	2.3	sep	494	571	SW 7760
UST VOLATILES NON-AQUEOUS									
Benzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Ethylbenzene	<0.006		mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Toluene	<0.006		mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Xylenes, Total	<0.006		mg/kg dw	11/06/1998	0.006	jap		78	SW 8260A
Dibromofluoromethane (Surr)	91.6		%	11/06/1998	81-129	jap		78	SW 8260A
Toluene-d8 (Surr)	91.4		%	11/06/1998	74-129	jap		78	SW 8260A
4-Bromofluoromethane (Surr)	99.4		%	11/06/1998	70-130	jap		78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.023		mg/kg dw	11/09/1998	0.023	keh	769	1834	SW 8310
Acenaphthylene	<0.023		mg/kg dw	11/09/1998	0.023	keh	769	1834	SW 8310
Anthracene	<0.071	MX	mg/kg dw	11/09/1998	0.046	keh	769	1834	SW 8310
Benzo(a)anthracene	<0.063	MX	mg/kg dw	11/09/1998	0.0030	keh	769	1834	SW 8310
Benzo(b)fluoranthene	0.014		mg/kg dw	11/09/1998	0.0041	keh	769	1834	SW 8310

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500672

NET Job No.: 98.14072

Sample Description: B-15 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 11:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.015	MX	mg/kg dw	11/09/1998	0.0039	keh	769	1834	SW 8310
Benzo(a)pyrene	0.032		mg/kg dw	11/09/1998	0.0053	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.046		mg/kg dw	11/09/1998	0.046	keh	769	1834	SW 8310
Chrysene	<0.03		mg/kg dw	11/09/1998	0.03	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.007		mg/kg dw	11/09/1998	0.007	keh	769	1834	SW 8310
Fluoranthene	<0.10	MX	mg/kg dw	11/09/1998	0.023	keh	769	1834	SW 8310
Fluorene	<0.044	MX	mg/kg dw	11/09/1998	0.023	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0099		mg/kg dw	11/09/1998	0.0099	keh	769	1834	SW 8310
Naphthalene	0.11		mg/kg dw	11/09/1998	0.029	keh	769	1834	SW 8310
Phenanthrene	0.14		mg/kg dw	11/09/1998	0.046	keh	769	1834	SW 8310
Pyrene	<0.046	MX	mg/kg dw	11/09/1998	0.023	keh	769	1834	SW 8310
Surr: p-Terphenyl	Masked			11/09/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.046		mg/kg dw	11/07/1998	0.046	tls	382	58	SW 8082
PCB-1221	<0.046		mg/kg dw	11/07/1998	0.046	tls	382	58	SW 8082
PCB-1232	<0.046		mg/kg dw	11/07/1998	0.046	tls	382	58	SW 8082
PCB-1242	<0.046		mg/kg dw	11/07/1998	0.046	tls	382	58	SW 8082
PCB-1248	<0.046		mg/kg dw	11/07/1998	0.046	tls	382	58	SW 8082
PCB-1254	<0.046		mg/kg dw	11/07/1998	0.046	tls	382	58	SW 8082
PCB-1260	1.02		mg/kg dw	11/09/1998	0.046	tls	382	61	SW 8082
Decachlorobiphenyl (Surr)	70.0		%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	68.0		%	11/07/1998	NA	tls	382	58	SW 8082

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500673

NET Job No.: 98.14072

Sample Description: B-17 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 12:55
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.50		units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	93.8		%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	5.0		mg/kg dw	11/09/1998	0.53	jtt	236	674	SW 7060
Barium, ICP	267		mg/kg dw	11/07/1998	1.1	jtt	1169	2188	SW 6010B
Cadmium, ICP	0.75		mg/kg dw	11/06/1998	0.53	jtt	1169	2174	SW 6010B
Chromium, ICP	128		mg/kg dw	11/06/1998	2.1	jtt	1169	2159	SW 6010B
Lead, ICP	27		mg/kg dw	11/06/1998	4.3	jtt	1169	2397	SW 6010B
Mercury, CVAA	<0.043		mg/kg dw	11/10/1998	0.043	sep	668	772	SW 7471A
Selenium, GFAA	<0.27		mg/kg dw	11/08/1998	0.27	jtt	236	562	SW 7740
Silver, AA	<2.1		mg/kg dw	11/04/1998	2.1	sep	494	571	SW 7760
UST VOLATILES NON-AQUEOUS									
Benzene	<0.005		mg/kg dw	11/06/1998	0.005	jap		78	SW 8260A
Ethylbenzene	<0.005		mg/kg dw	11/06/1998	0.005	jap		78	SW 8260A
Toluene	<0.005		mg/kg dw	11/06/1998	0.005	jap		78	SW 8260A
Xylenes, Total	<0.005		mg/kg dw	11/06/1998	0.005	jap		78	SW 8260A
Dibromofluoromethane (Surr)	99.8		%	11/06/1998	81-129	jap		78	SW 8260A
Toluene-d8 (Surr)	88.2		%	11/06/1998	74-129	jap		78	SW 8260A
4-Bromofluoromethane (Surr)	85.2		%	11/06/1998	70-130	jap		78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		SW 3540C
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.021		mg/kg dw	11/09/1998	0.021	keh	769	1834	SW 8310
Acenaphthylene	<0.021		mg/kg dw	11/09/1998	0.021	keh	769	1834	SW 8310
Anthracene	<0.043		mg/kg dw	11/09/1998	0.043	keh	769	1834	SW 8310
Benzo(a)anthracene	<0.067	MX	mg/kg dw	11/09/1998	0.0028	keh	769	1834	SW 8310
Benzo(b)fluoranthene	0.019		mg/kg dw	11/09/1998	0.0038	keh	769	1834	SW 8310

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500673

NET Job No.: 98.14072

Sample Description: B-17 (0-4')
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 12:55
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
Benzo(k)fluoranthene	<0.032	MX	mg/kg dw	11/09/1998	0.0036	keh	769	1834	SW 8310
Benzo(a)pyrene	0.015		mg/kg dw	11/09/1998	0.0049	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.043		mg/kg dw	11/09/1998	0.043	keh	769	1834	SW 8310
Chrysene	<0.03		mg/kg dw	11/09/1998	0.03	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.006		mg/kg dw	11/09/1998	0.006	keh	769	1834	SW 8310
Fluoranthene	<0.057	MX	mg/kg dw	11/09/1998	0.021	keh	769	1834	SW 8310
Fluorene	<0.021		mg/kg dw	11/09/1998	0.021	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0092		mg/kg dw	11/09/1998	0.0092	keh	769	1834	SW 8310
Naphthalene	0.10		mg/kg dw	11/09/1998	0.027	keh	769	1834	SW 8310
Phenanthrene	0.082		mg/kg dw	11/09/1998	0.043	keh	769	1834	SW 8310
Pyrene	<0.034	MX	mg/kg dw	11/09/1998	0.021	keh	769	1834	SW 8310
Surr: p-Terphenyl	102.3		%	11/09/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.043		mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1221	<0.043		mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1232	<0.043		mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1242	<0.043		mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1248	<0.043		mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1254	<0.043		mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
PCB-1260	<0.043		mg/kg dw	11/07/1998	0.043	tls	382	58	SW 8082
Decachlorobiphenyl (Surr)	77.0		%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	82.0		%	11/07/1998	NA	tls	382	58	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-Lin Feng
ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

Sample No. : 500674

NET Job No.: 98.14072

Sample Description: S-11
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 13:45
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.61	units	11/06/1998	0.10	nwg	197	SW 9045B
Solids, Total	61.8	%	11/04/1998	0.1	aks	2528	SM 2540
Arsenic, GFAA	29	mg/kg dw	11/09/1998	0.81	jtt	236 674	SW 7060
Barium, ICP	1,230	mg/kg dw	11/07/1998	1.6	jtt	1169 2188	SW 6010B
Cadmium, ICP	18	mg/kg dw	11/06/1998	0.81	jtt	1169 2174	SW 6010B
Chromium, ICP	150	mg/kg dw	11/06/1998	3.2	jtt	1169 2159	SW 6010B
Lead, ICP	1,340	mg/kg dw	11/06/1998	6.5	jtt	1169 2397	SW 6010B
Mercury, CVAA	0.15	mg/kg dw	11/10/1998	0.065	sep	668 772	SW 7471A
Selenium, GFAA	2.6	mg/kg dw	11/08/1998	0.40	jtt	236 562	SW 7740
Silver, AA	<3.2	mg/kg dw	11/04/1998	3.2	sep	494 571	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		11/03/1998		mmv	246	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<809	mg/kg dw	11/05/1998	81	out	246 490	SW 8015M
TPH as Diesel	<809	mg/kg dw	11/05/1998	81	out	246 490	SW 8015M
TPH as Oil	65,000 PT	mg/kg dw	11/05/1998	81	out	246 490	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	11/05/1998		out	246 490	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.008	mg/kg dw	11/06/1998	0.008	jap	78	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	11/06/1998	0.008	jap	78	SW 8260A
Toluene	<0.008	mg/kg dw	11/06/1998	0.008	jap	78	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	11/06/1998	0.008	jap	78	SW 8260A
Dibromofluoromethane (Surr)	97.8	%	11/06/1998	81-129	jap	78	SW 8260A
Toluene-d8 (Surr)	81.0	%	11/06/1998	74-129	jap	78	SW 8260A
4-Bromofluoromethane (Surr)	84.2	%	11/06/1998	70-130	jap	78	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		11/05/1998		mmv	769	SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500674

NET Job No.: 98.14072

Sample Description: S-11
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 13:45
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	<0.32		mg/kg dw	11/09/1998	0.032	keh	769	1834	SW 8310
Acenaphthylene	<0.32		mg/kg dw	11/09/1998	0.032	keh	769	1834	SW 8310
Anthracene	<0.65		mg/kg dw	11/09/1998	0.065	keh	769	1834	SW 8310
Benzo(a)anthracene	<0.39		mg/kg dw	11/09/1998	0.0042	keh	769	1834	SW 8310
Benzo(b)fluoranthene	0.079		mg/kg dw	11/09/1998	0.0058	keh	769	1834	SW 8310
Benzo(k)fluoranthene	0.099		mg/kg dw	11/09/1998	0.0055	keh	769	1834	SW 8310
Benzo(a)pyrene	0.11		mg/kg dw	11/09/1998	0.0074	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.65		mg/kg dw	11/09/1998	0.065	keh	769	1834	SW 8310
Chrysene	<0.5		mg/kg dw	11/09/1998	0.05	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.1		mg/kg dw	11/09/1998	0.01	keh	769	1834	SW 8310
Fluoranthene	<0.32		mg/kg dw	11/09/1998	0.032	keh	769	1834	SW 8310
Fluorene	<0.32		mg/kg dw	11/09/1998	0.032	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.14		mg/kg dw	11/09/1998	0.014	keh	769	1834	SW 8310
Naphthalene	<0.40		mg/kg dw	11/09/1998	0.040	keh	769	1834	SW 8310
Phenanthrene	0.66		mg/kg dw	11/09/1998	0.065	keh	769	1834	SW 8310
Pyrene	<0.32		mg/kg dw	11/09/1998	0.032	keh	769	1834	SW 8310
Surr: p-Terphenyl	Masked			11/09/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS		ELV							
PCB-1016	<0.1		mg/kg dw	11/09/1998	0.065	tls	382	61	SW 8082
PCB-1221	<0.1		mg/kg dw	11/09/1998	0.065	tls	382	61	SW 8082
PCB-1232	<0.1		mg/kg dw	11/09/1998	0.065	tls	382	61	SW 8082
PCB-1242	<0.1		mg/kg dw	11/09/1998	0.065	tls	382	61	SW 8082
PCB-1248	<0.1		mg/kg dw	11/09/1998	0.065	tls	382	61	SW 8082
PCB-1254	<0.1		mg/kg dw	11/09/1998	0.065	tls	382	61	SW 8082

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500674

NET Job No.: 98.14072

Sample Description: S-11
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 13:45
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.79	mg/kg dw	11/09/1998	0.065	tls	382 61	SW 8082
Decachlorobiphenyl (Surr)	99.0	%	11/09/1998	NA	tls	382 61	SW 8082
2,4,5,6-TCMX (Surr)	82.0	%	11/09/1998	NA	tls	382 61	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500675

NET Job No.: 98.14072

Sample Description: X-4
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.38		units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	37.0		%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	35		mg/kg dw	11/09/1998	1.4	jtt	238	674	SW 7060
Barium, ICP	892		mg/kg dw	11/10/1998	2.7	kdw	1172	2194	SW 6010B
Cadmium, ICP	<2.5	MX	mg/kg dw	11/09/1998	1.4	kdw	1172	2178	SW 6010B
Chromium, ICP	15		mg/kg dw	11/09/1998	5.4	kdw	1172	2163	SW 6010B
Lead, ICP	26		mg/kg dw	11/09/1998	11	kdw	1172	2401	SW 6010B
Mercury, CVAA	0.15		mg/kg dw	11/10/1998	0.11	sep	668	772	SW 7471A
Selenium, GFAA	0.76		mg/kg dw	11/08/1998	0.68	jtt	238	562	SW 7740
Silver, AA	<5.4		mg/kg dw	11/06/1998	5.4	sep	496	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/03/1998		mmv	246		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<140		mg/kg dw	11/05/1998	140	out	246	490	SW 8015M
TPH as Diesel	<140		mg/kg dw	11/05/1998	140	out	246	490	SW 8015M
TPH as Oil	10,900	PT	mg/kg dw	11/05/1998	140	out	246	490	SW 8015M
N-octacosane (TPH surr)	79.0		%	11/05/1998		out	246	490	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Ethylbenzene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Toluene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Xylenes, Total	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Dibromofluoromethane (Surr)	93.4		%	11/07/1998	81-129	mjo		79	SW 8260A
Toluene-d8 (Surr)	75.6		%	11/07/1998	74-129	mjo		79	SW 8260A
4-Bromofluoromethane (Surr)	73.6		%	11/07/1998	70-130	mjo		79	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		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.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500675

NET Job No.: 98.14072

Sample Description: X-4
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	<0.3	mg/kg dw	11/10/1998	0.054	keh	769	1834	SW 8310
Acenaphthylene	<0.3	mg/kg dw	11/10/1998	0.054	keh	769	1834	SW 8310
Anthracene	<0.6	mg/kg dw	11/10/1998	0.11	keh	769	1834	SW 8310
Benzo(a)anthracene	<2.0	mg/kg dw	11/10/1998	0.0070	keh	769	1834	SW 8310
Benzo(b)fluoranthene	<0.57	mg/kg dw	11/10/1998	0.0097	keh	769	1834	SW 8310
Benzo(k)fluoranthene	<0.70	mg/kg dw	11/10/1998	0.0092	keh	769	1834	SW 8310
Benzo(a)pyrene	<0.49	mg/kg dw	11/10/1998	0.012	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.6	mg/kg dw	11/10/1998	0.11	keh	769	1834	SW 8310
Chrysene	<0.4	mg/kg dw	11/10/1998	0.08	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.1	mg/kg dw	11/10/1998	0.02	keh	769	1834	SW 8310
Fluoranthene	<0.3	mg/kg dw	11/10/1998	0.054	keh	769	1834	SW 8310
Fluorene	<0.57	mg/kg dw	11/10/1998	0.054	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.1	mg/kg dw	11/10/1998	0.023	keh	769	1834	SW 8310
Naphthalene	<0.3	mg/kg dw	11/10/1998	0.068	keh	769	1834	SW 8310
Phenanthrene	<0.6	mg/kg dw	11/10/1998	0.11	keh	769	1834	SW 8310
Pyrene	0.32	mg/kg dw	11/10/1998	0.054	keh	769	1834	SW 8310
Surr: p-Terphenyl	Masked		11/10/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.11	mg/kg dw	11/07/1998	0.11	tls	382	58	SW 8082
PCB-1221	<0.11	mg/kg dw	11/07/1998	0.11	tls	382	58	SW 8082
PCB-1232	<0.11	mg/kg dw	11/07/1998	0.11	tls	382	58	SW 8082
PCB-1242	<0.11	mg/kg dw	11/07/1998	0.11	tls	382	58	SW 8082
PCB-1248	<0.11	mg/kg dw	11/07/1998	0.11	tls	382	58	SW 8082
PCB-1254	<0.11	mg/kg dw	11/07/1998	0.11	tls	382	58	SW 8082

ELV : Elevated reporting limits due to matrix interference.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500675

NET Job No.: 98.14072

Sample Description: X-4
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PCB-1260	<0.11	mg/kg dw	11/07/1998	0.11	tls	382	58	SW 8082
Decachlorobiphenyl (Surr)	69.0	%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	80.0	%	11/07/1998	NA	tls	382	58	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500676

NET Job No.: 98.14072

Sample Description: X-1
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.99		units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	28.9		%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	69		mg/kg dw	11/09/1998	1.7	jtt	238	674	SW 7060
Barium, ICP	190		mg/kg dw	11/10/1998	3.5	kdw	1172	2194	SW 6010B
Cadmium, ICP	<3.1	MX	mg/kg dw	11/09/1998	1.7	kdw	1172	2178	SW 6010B
Chromium, ICP	19		mg/kg dw	11/09/1998	6.9	kdw	1172	2163	SW 6010B
Lead, ICP	415		mg/kg dw	11/09/1998	14	kdw	1172	2401	SW 6010B
Mercury, CVAA	0.25		mg/kg dw	11/10/1998	0.14	sep	668	772	SW 7471A
Selenium, GFAA	<0.87		mg/kg dw	11/08/1998	0.87	jtt	238	562	SW 7740
Silver, AA	<6.9		mg/kg dw	11/06/1998	6.9	sep	496	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/03/1998		mmv	246		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<170		mg/kg dw	11/05/1998	170	out	246	490	SW 8015M
TPH as Diesel	17,800	PT	mg/kg dw	11/05/1998	170	out	246	490	SW 8015M
TPH as Oil	<170		mg/kg dw	11/05/1998	170	out	246	490	SW 8015M
N-octacosane (TPH surr)	135.0		%	11/05/1998		out	246	490	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.02		mg/kg dw	11/08/1998	0.02	mjo		80	SW 8260A
Ethylbenzene	<0.02		mg/kg dw	11/08/1998	0.02	mjo		80	SW 8260A
Toluene	<0.02		mg/kg dw	11/08/1998	0.02	mjo		80	SW 8260A
Xylenes, Total	<0.02		mg/kg dw	11/08/1998	0.02	mjo		80	SW 8260A
Dibromofluoromethane (Surr)	89.4		%	11/08/1998	81-129	mjo		80	SW 8260A
Toluene-d8 (Surr)	90.2		%	11/08/1998	74-129	mjo		80	SW 8260A
4-Bromofluoromethane (Surr)	93.8		%	11/08/1998	70-130	mjo		80	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		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 diesel range.

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ANALYTICAL REPORT

Mr. Wei-Lin Feng
ENSR
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Westmont, IL 60559

11/11/1998

Sample No. : 500676

NET Job No.: 98.14072

Sample Description: X-1
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	<0.069	mg/kg dw	11/10/1998	0.069	keh	769	1834	SW 8310
Acenaphthylene	<0.069	mg/kg dw	11/10/1998	0.069	keh	769	1834	SW 8310
Anthracene	<0.27	mg/kg dw	11/10/1998	0.14	keh	769	1834	SW 8310
Benzo(a)anthracene	<0.17	mg/kg dw	11/10/1998	0.0090	keh	769	1834	SW 8310
Benzo(b)fluoranthene	<0.093	mg/kg dw	11/10/1998	0.012	keh	769	1834	SW 8310
Benzo(k)fluoranthene	<0.13	mg/kg dw	11/10/1998	0.012	keh	769	1834	SW 8310
Benzo(a)pyrene	<0.066	mg/kg dw	11/10/1998	0.016	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.14	mg/kg dw	11/10/1998	0.14	keh	769	1834	SW 8310
Chrysene	<0.55	mg/kg dw	11/10/1998	0.1	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.02	mg/kg dw	11/10/1998	0.02	keh	769	1834	SW 8310
Fluoranthene	<1.3	mg/kg dw	11/10/1998	0.069	keh	769	1834	SW 8310
Fluorene	<0.59	mg/kg dw	11/10/1998	0.069	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	0.031	mg/kg dw	11/10/1998	0.030	keh	769	1834	SW 8310
Naphthalene	<0.087	mg/kg dw	11/10/1998	0.087	keh	769	1834	SW 8310
Phenanthrene	<0.14	mg/kg dw	11/10/1998	0.14	keh	769	1834	SW 8310
Pyrene	<1.9	mg/kg dw	11/10/1998	0.069	keh	769	1834	SW 8310
Surr: p-Terphenyl	Masked		11/10/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/04/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS								
PCB-1016	<0.14	mg/kg dw	11/07/1998	0.14	tls	382	58	SW 8082
PCB-1221	<0.14	mg/kg dw	11/07/1998	0.14	tls	382	58	SW 8082
PCB-1232	<0.14	mg/kg dw	11/07/1998	0.14	tls	382	58	SW 8082
PCB-1242	<0.14	mg/kg dw	11/07/1998	0.14	tls	382	58	SW 8082
PCB-1248	<0.14	mg/kg dw	11/07/1998	0.14	tls	382	58	SW 8082
PCB-1254	0.17	mg/kg dw	11/07/1998	0.14	tls	382	58	SW 8082

ELV :Elevated reporting limits due to matrix interference.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500676

NET Job No.: 98.14072

Sample Description: X-1
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:30
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	11/07/1998	0.14	tls	382	58	SW 8082
Decachlorobiphenyl (Surr)	87.0	%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	67.0	%	11/07/1998	NA	tls	382	58	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500677

NET Job No.: 98.14072

Sample Description: X-2
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.78		units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	55.9		%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	16		mg/kg dw	11/09/1998	0.89	mhp	239	675	SW 7060
Barium, ICP	160		mg/kg dw	11/10/1998	1.8	kdw	1172	2194	SW 6010B
Cadmium, ICP	1.7		mg/kg dw	11/09/1998	0.89	kdw	1172	2178	SW 6010B
Chromium, ICP	38		mg/kg dw	11/09/1998	3.6	kdw	1172	2163	SW 6010B
Lead, ICP	30		mg/kg dw	11/09/1998	7.2	kdw	1172	2401	SW 6010B
Mercury, CVAA	<0.072		mg/kg dw	11/10/1998	0.072	sep	668	772	SW 7471A
Selenium, GFAA	<0.45		mg/kg dw	11/09/1998	0.45	mhp	239	563	SW 7740
Silver, AA	<3.6		mg/kg dw	11/06/1998	3.6	sep	496	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/03/1998		mmv	246		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<89		mg/kg dw	11/05/1998	89	out	246	490	SW 8015M
TPH as Diesel	630	PT	mg/kg dw	11/05/1998	89	out	246	490	SW 8015M
TPH as Oil	<89		mg/kg dw	11/05/1998	89	out	246	490	SW 8015M
N-octacosane (TPH surr)	84.0		%	11/05/1998		out	246	490	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.009		mg/kg dw	11/07/1998	0.009	mjo		79	SW 8260A
Ethylbenzene	<0.009		mg/kg dw	11/07/1998	0.009	mjo		79	SW 8260A
Toluene	<0.009		mg/kg dw	11/07/1998	0.009	mjo		79	SW 8260A
Xylenes, Total	<0.009		mg/kg dw	11/07/1998	0.009	mjo		79	SW 8260A
Dibromofluoromethane (Surr)	88.0		%	11/07/1998	81-129	mjo		79	SW 8260A
Toluene-d8 (Surr)	86.2		%	11/07/1998	74-129	mjo		79	SW 8260A
4-Bromofluoromethane (Surr)	86.6		%	11/07/1998	70-130	mjo		79	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500677

NET Job No.: 98.14072

Sample Description: X-2
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.036		mg/kg dw	11/10/1998	0.036	keh	769	1834	SW 8310
Acenaphthylene	<0.036		mg/kg dw	11/10/1998	0.036	keh	769	1834	SW 8310
Anthracene	<0.072		mg/kg dw	11/10/1998	0.072	keh	769	1834	SW 8310
Benzo(a)anthracene	<0.036	MX	mg/kg dw	11/10/1998	0.0047	keh	769	1834	SW 8310
Benzo(b)fluoranthene	<0.0064		mg/kg dw	11/10/1998	0.0064	keh	769	1834	SW 8310
Benzo(k)fluoranthene	0.0081		mg/kg dw	11/10/1998	0.0061	keh	769	1834	SW 8310
Benzo(a)pyrene	<0.014	MX	mg/kg dw	11/10/1998	0.0082	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.072		mg/kg dw	11/10/1998	0.072	keh	769	1834	SW 8310
Chrysene	<0.05		mg/kg dw	11/10/1998	0.05	keh	769	1835	SW 8310
Dibenzo(a,h)anthracene	<0.01		mg/kg dw	11/10/1998	0.01	keh	769	1834	SW 8310
Fluoranthene	<0.036		mg/kg dw	11/10/1998	0.036	keh	769	1834	SW 8310
Fluorene	<0.036		mg/kg dw	11/10/1998	0.036	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.015		mg/kg dw	11/10/1998	0.015	keh	769	1834	SW 8310
Naphthalene	0.15		mg/kg dw	11/10/1998	0.045	keh	769	1834	SW 8310
Phenanthrene	<0.072		mg/kg dw	11/10/1998	0.072	keh	769	1834	SW 8310
Pyrene	<0.036		mg/kg dw	11/10/1998	0.036	keh	769	1834	SW 8310
Surr: p-Terphenyl	73.9		%	11/10/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/05/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.072		mg/kg dw	11/07/1998	0.072	tls	382	58	SW 8082
PCB-1221	<0.072		mg/kg dw	11/07/1998	0.072	tls	382	58	SW 8082
PCB-1232	<0.072		mg/kg dw	11/07/1998	0.072	tls	382	58	SW 8082
PCB-1242	<0.072		mg/kg dw	11/07/1998	0.072	tls	382	58	SW 8082
PCB-1248	<0.072		mg/kg dw	11/07/1998	0.072	tls	382	58	SW 8082
PCB-1254	<0.072		mg/kg dw	11/07/1998	0.072	tls	382	58	SW 8082

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500677

NET Job No.: 98.14072

Sample Description: X-2
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.072	mg/kg dw	11/07/1998	0.072	tls	382 58	SW 8082
Decachlorobiphenyl (Surr)	70.0	%	11/07/1998	NA	tls	382 58	SW 8082
2,4,5,6-TCMX (Surr)	96.0	%	11/07/1998	NA	tls	382 58	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500678

NET Job No.: 98.14072

Sample Description: S-6
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:50
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	6.60		units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	95.5		%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	2.8		mg/kg dw	11/09/1998	0.52	mhp	239	675	SW 7060
Barium, ICP	41		mg/kg dw	11/10/1998	1.0	kdw	1173	2194	SW 6010B
Cadmium, ICP	<0.52		mg/kg dw	11/09/1998	0.52	kdw	1173	2178	SW 6010B
Chromium, ICP	4.5		mg/kg dw	11/09/1998	2.1	kdw	1173	2163	SW 6010B
Lead, ICP	8.5		mg/kg dw	11/09/1998	4.2	kdw	1173	2401	SW 6010B
Mercury, CVAA	<0.042		mg/kg dw	11/10/1998	0.042	sep	668	772	SW 7471A
Selenium, GFAA	0.31		mg/kg dw	11/09/1998	0.26	mhp	239	563	SW 7740
Silver, AA	2.2		mg/kg dw	11/06/1998	2.1	sep	496	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/03/1998		mmv	246		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<52		mg/kg dw	11/05/1998	52	out	246	490	SW 8015M
TPH as Diesel	5,790	PT	mg/kg dw	11/05/1998	52	out	246	490	SW 8015M
TPH as Oil	<52		mg/kg dw	11/05/1998	52	out	246	490	SW 8015M
N-octacosane (TPH surr)	104.0		%	11/05/1998		out	246	490	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.005		mg/kg dw	11/07/1998	0.005	mjo		79	SW 8260A
Ethylbenzene	<0.005		mg/kg dw	11/07/1998	0.005	mjo		79	SW 8260A
Toluene	<0.005		mg/kg dw	11/07/1998	0.005	mjo		79	SW 8260A
Xylenes, Total	<0.005		mg/kg dw	11/07/1998	0.005	mjo		79	SW 8260A
Dibromofluoromethane (Surr)	98.0		%	11/07/1998	81-129	mjo		79	SW 8260A
Toluene-d8 (Surr)	80.0		%	11/07/1998	74-129	mjo		79	SW 8260A
4-Bromofluoromethane (Surr)	91.0		%	11/07/1998	70-130	mjo		79	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		SW 3540C

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

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500678

NET Job No.: 98.14072

Sample Description: S-6
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:50
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
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	<2.1	mg/kg dw	11/10/1998	0.021	keh	769	1834	SW 8310
Acenaphthylene	<2.1	mg/kg dw	11/10/1998	0.021	keh	769	1834	SW 8310
Anthracene	<4.2	mg/kg dw	11/10/1998	0.042	keh	769	1834	SW 8310
Benzo(a)anthracene	<1.4	mg/kg dw	11/10/1998	0.0027	keh	769	1834	SW 8310
Benzo(b)fluoranthene	<0.38	mg/kg dw	11/10/1998	0.0038	keh	769	1834	SW 8310
Benzo(k)fluoranthene	<0.36	mg/kg dw	11/10/1998	0.0036	keh	769	1834	SW 8310
Benzo(a)pyrene	<0.48	mg/kg dw	11/10/1998	0.0048	keh	769	1834	SW 8310
Benzo(ghi)perylene	<4.2	mg/kg dw	11/10/1998	0.042	keh	769	1834	SW 8310
Chrysene	<3	mg/kg dw	11/10/1998	0.03	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.6	mg/kg dw	11/10/1998	0.006	keh	769	1834	SW 8310
Fluoranthene	<2.1	mg/kg dw	11/10/1998	0.021	keh	769	1834	SW 8310
Fluorene	<2.1	mg/kg dw	11/10/1998	0.021	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.90	mg/kg dw	11/10/1998	0.0090	keh	769	1834	SW 8310
Naphthalene	<2.6	mg/kg dw	11/10/1998	0.026	keh	769	1834	SW 8310
Phenanthrene	<4.2	mg/kg dw	11/10/1998	0.042	keh	769	1834	SW 8310
Pyrene	<7.0	mg/kg dw	11/10/1998	0.021	keh	769	1834	SW 8310
Surr: p-Terphenyl	Diluted out		11/10/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		11/05/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS	ELV							
PCB-1016	<0.2	mg/kg dw	11/09/1998	0.042	tls	382	61	SW 8082
PCB-1221	<0.2	mg/kg dw	11/09/1998	0.042	tls	382	61	SW 8082
PCB-1232	<0.2	mg/kg dw	11/09/1998	0.042	tls	382	61	SW 8082
PCB-1242	<0.2	mg/kg dw	11/09/1998	0.042	tls	382	61	SW 8082
PCB-1248	<0.2	mg/kg dw	11/09/1998	0.042	tls	382	61	SW 8082
PCB-1254	<0.2	mg/kg dw	11/09/1998	0.042	tls	382	61	SW 8082

ELV : Elevated reporting limits due to matrix interference.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500678

NET Job No.: 98.14072

Sample Description: S-6
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:50
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PCB-1260	<0.2	mg/kg dw	11/09/1998	0.042	tls	382	61	SW 8082
Decachlorobiphenyl (Surr)	69.0	%	11/09/1998	NA	tls	382	61	SW 8082
2,4,5,6-TCMX (Surr)	52.0	%	11/09/1998	NA	tls	382	61	SW 8082

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ANALYTICAL REPORT

Mr. Wei-Lin Feng
ENSR
740 Pasquinelli Drive
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11/11/1998

Sample No. : 500679

NET Job No.: 98.14072

Sample Description: X-3
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:25
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	7.99		units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	39.2		%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	9.7		mg/kg dw	11/09/1998	1.3	mhp	239	675	SW 7060
Barium, ICP	765		mg/kg dw	11/10/1998	2.6	kdw	1173	2194	SW 6010B
Cadmium, ICP	2.2		mg/kg dw	11/09/1998	1.3	kdw	1173	2178	SW 6010B
Chromium, ICP	31		mg/kg dw	11/09/1998	5.1	kdw	1173	2163	SW 6010B
Lead, ICP	71		mg/kg dw	11/09/1998	10	kdw	1173	2401	SW 6010B
Mercury, CVAA	0.92		mg/kg dw	11/10/1998	0.10	sep	668	772	SW 7471A
Selenium, GFAA	0.71		mg/kg dw	11/09/1998	0.64	mhp	239	563	SW 7740
Silver, AA	<5.1		mg/kg dw	11/06/1998	5.1	sep	496	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/03/1998		mmv	246		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<130		mg/kg dw	11/05/1998	130	out	246	490	SW 8015M
TPH as Diesel	<130		mg/kg dw	11/05/1998	130	out	246	490	SW 8015M
TPH as Oil	9,390	PT	mg/kg dw	11/05/1998	130	out	246	490	SW 8015M
N-octacosane (TPH surr)	46.0		%	11/05/1998		out	246	490	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Ethylbenzene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Toluene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Xylenes, Total	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Dibromofluoromethane (Surr)	82.2		%	11/07/1998	81-129	mjo		79	SW 8260A
Toluene-d8 (Surr)	86.4		%	11/07/1998	74-129	mjo		79	SW 8260A
4-Bromofluoromethane (Surr)	92.8		%	11/07/1998	70-130	mjo		79	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500679

NET Job No.: 98.14072

Sample Description: X-3
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:25
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.12	MX	mg/kg dw	11/10/1998	0.051	keh	769	1834	SW 8310
Acenaphthylene	<0.051		mg/kg dw	11/10/1998	0.051	keh	769	1834	SW 8310
Anthracene	<0.10		mg/kg dw	11/10/1998	0.10	keh	769	1834	SW 8310
Benzo(a)anthracene	<0.74	MX	mg/kg dw	11/10/1998	0.0066	keh	769	1834	SW 8310
Benzo(b)fluoranthene	0.092		mg/kg dw	11/10/1998	0.0092	keh	769	1834	SW 8310
Benzo(k)fluoranthene	<0.20	MX	mg/kg dw	11/10/1998	0.0087	keh	769	1834	SW 8310
Benzo(a)pyrene	<0.13	MX	mg/kg dw	11/10/1998	0.012	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.10		mg/kg dw	11/10/1998	0.10	keh	769	1834	SW 8310
Chrysene	0.17		mg/kg dw	11/10/1998	0.08	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.031	MX	mg/kg dw	11/10/1998	0.02	keh	769	1834	SW 8310
Fluoranthene	0.33		mg/kg dw	11/10/1998	0.051	keh	769	1834	SW 8310
Fluorene	<0.79	MX	mg/kg dw	11/10/1998	0.051	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	0.061		mg/kg dw	11/10/1998	0.022	keh	769	1834	SW 8310
Naphthalene	<0.064		mg/kg dw	11/10/1998	0.064	keh	769	1834	SW 8310
Phenanthrene	0.23		mg/kg dw	11/10/1998	0.10	keh	769	1834	SW 8310
Pyrene	0.28		mg/kg dw	11/10/1998	0.051	keh	769	1834	SW 8310
Surr: p-Terphenyl	Masked			11/10/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/05/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.10		mg/kg dw	11/07/1998	0.10	tls	382	58	SW 8082
PCB-1221	<0.10		mg/kg dw	11/07/1998	0.10	tls	382	58	SW 8082
PCB-1232	<0.10		mg/kg dw	11/07/1998	0.10	tls	382	58	SW 8082
PCB-1242	<0.10		mg/kg dw	11/07/1998	0.10	tls	382	58	SW 8082
PCB-1248	<0.10		mg/kg dw	11/07/1998	0.10	tls	382	58	SW 8082
PCB-1254	<0.10		mg/kg dw	11/07/1998	0.10	tls	382	58	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-Lin Feng
ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

Sample No. : 500679

NET Job No.: 98.14072

Sample Description: X-3
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 14:25
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.10	mg/kg dw	11/07/1998	0.10	tls	382 58	SW 8082
Decachlorobiphenyl (Surr)	70.0	%	11/07/1998	NA	tls	382 58	SW 8082
2,4,5,6-TCMX (Surr)	112.0	%	11/07/1998	NA	tls	382 58	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500680

NET Job No.: 98.14072

Sample Description: X-5
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 15:40
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.92		units	11/06/1998	0.10	nwg		197	SW 9045B
Solids, Total	53.0		%	11/04/1998	0.1	aks		2528	SM 2540
Arsenic, GFAA	28		mg/kg dw	11/09/1998	0.94	mhp	239	675	SW 7060
Barium, ICP	3,770		mg/kg dw	11/10/1998	1.9	kdw	1173	2194	SW 6010B
Cadmium, ICP	2.1		mg/kg dw	11/09/1998	0.94	kdw	1173	2178	SW 6010B
Chromium, ICP	42		mg/kg dw	11/09/1998	3.8	kdw	1173	2163	SW 6010B
Lead, ICP	55		mg/kg dw	11/09/1998	7.5	kdw	1173	2401	SW 6010B
Mercury, CVAA	0.77		mg/kg dw	11/10/1998	0.075	sep	668	772	SW 7471A
Selenium, GFAA	2.6		mg/kg dw	11/09/1998	0.47	mhp	239	563	SW 7740
Silver, AA	4.5		mg/kg dw	11/06/1998	3.8	sep	496	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/03/1998		mmv	246		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<94		mg/kg dw	11/05/1998	94	out	246	490	SW 8015M
TPH as Diesel	<94		mg/kg dw	11/05/1998	94	out	246	490	SW 8015M
TPH as Oil	<94		mg/kg dw	11/05/1998	94	out	246	490	SW 8015M
N-octacosane (TPH surr)	75.0		%	11/05/1998		out	246	490	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.009		mg/kg dw	11/07/1998	0.009	mjo		79	SW 8260A
Ethylbenzene	<0.009		mg/kg dw	11/07/1998	0.009	mjo		79	SW 8260A
Toluene	<0.009		mg/kg dw	11/07/1998	0.009	mjo		79	SW 8260A
Xylenes, Total	<0.009		mg/kg dw	11/07/1998	0.009	mjo		79	SW 8260A
Dibromofluoromethane (Surr)	128.8	R	%	11/07/1998	81-129	mjo		79	SW 8260A
Toluene-d8 (Surr)	81.6		%	11/07/1998	74-129	mjo		79	SW 8260A
4-Bromofluoromethane (Surr)	60.2	R	%	11/07/1998	70-130	mjo		79	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		SW 3540C

R : Surrogate recovery verified by re-analysis.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500680

NET Job No.: 98.14072

Sample Description: X-5
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 15:40
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.038		mg/kg dw	11/10/1998	0.038	keh	769	1834	SW 8310
Acenaphthylene	<0.038		mg/kg dw	11/10/1998	0.038	keh	769	1834	SW 8310
Anthracene	<0.075		mg/kg dw	11/10/1998	0.075	keh	769	1834	SW 8310
Benzo(a)anthracene	<0.043	MX	mg/kg dw	11/10/1998	0.0049	keh	769	1834	SW 8310
Benzo(b)fluoranthene	<0.0068		mg/kg dw	11/10/1998	0.0068	keh	769	1834	SW 8310
Benzo(k)fluoranthene	<0.032	MX	mg/kg dw	11/10/1998	0.0064	keh	769	1834	SW 8310
Benzo(a)pyrene	<0.0087		mg/kg dw	11/10/1998	0.0087	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.075		mg/kg dw	11/10/1998	0.075	keh	769	1834	SW 8310
Chrysene	<0.06		mg/kg dw	11/10/1998	0.06	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.01		mg/kg dw	11/10/1998	0.01	keh	769	1834	SW 8310
Fluoranthene	<0.038		mg/kg dw	11/10/1998	0.038	keh	769	1834	SW 8310
Fluorene	<0.038		mg/kg dw	11/10/1998	0.038	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.016		mg/kg dw	11/10/1998	0.016	keh	769	1834	SW 8310
Naphthalene	<0.047		mg/kg dw	11/10/1998	0.047	keh	769	1834	SW 8310
Phenanthrene	<0.075		mg/kg dw	11/10/1998	0.075	keh	769	1834	SW 8310
Pyrene	<0.038		mg/kg dw	11/10/1998	0.038	keh	769	1834	SW 8310
Surr: p-Terphenyl	21.0	SR	%	11/10/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/05/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.075		mg/kg dw	11/07/1998	0.075	tls	382	58	SW 8082
PCB-1221	<0.075		mg/kg dw	11/07/1998	0.075	tls	382	58	SW 8082
PCB-1232	<0.075		mg/kg dw	11/07/1998	0.075	tls	382	58	SW 8082
PCB-1242	<0.075		mg/kg dw	11/07/1998	0.075	tls	382	58	SW 8082
PCB-1248	<0.075		mg/kg dw	11/07/1998	0.075	tls	382	58	SW 8082
PCB-1254	<0.075		mg/kg dw	11/07/1998	0.075	tls	382	58	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.
SR : Surrogate recovery was outside of acceptance limits, due to sample matrix

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500680

NET Job No.: 98.14072

Sample Description: X-5
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 15:40
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PCB-1260	<0.075	mg/kg dw	11/07/1998	0.075	tls	382	58	SW 8082
Decachlorobiphenyl (Surr)	77.0	%	11/07/1998	NA	tls	382	58	SW 8082
2,4,5,6-TCMX (Surr)	73.0	%	11/07/1998	NA	tls	382	58	SW 8082

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500681

NET Job No.: 98.14072

Sample Description: X-6
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 15:50
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
pH, Non-Aqueous	8.89		units	11/06/1998	0.10	nwg		198	SW 9045B
Solids, Total	47.9		%	11/04/1998	0.1	aks		2529	SM 2540
Arsenic, GFAA	33		mg/kg dw	11/09/1998	1.0	mhp	239	675	SW 7060
Barium, ICP	3,970		mg/kg dw	11/10/1998	2.1	kdw	1173	2194	SW 6010B
Cadmium, ICP	2.9		mg/kg dw	11/09/1998	1.0	kdw	1173	2178	SW 6010B
Chromium, ICP	52		mg/kg dw	11/09/1998	4.2	kdw	1173	2163	SW 6010B
Lead, ICP	71		mg/kg dw	11/09/1998	8.4	kdw	1173	2401	SW 6010B
Mercury, CVAA	0.73		mg/kg dw	11/10/1998	0.084	sep	668	772	SW 7471A
Selenium, GFAA	2.5	M+	mg/kg dw	11/09/1998	0.52	mhp	239	563	SW 7740
Silver, AA	<4.2		mg/kg dw	11/06/1998	4.2	sep	496	572	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted			11/03/1998		mmv	246		SW 8015M
TPH MODIFIED 8015									
TPH as Gas	<100		mg/kg dw	11/05/1998	100	out	246	490	SW 8015M
TPH as Diesel	<100		mg/kg dw	11/05/1998	100	out	246	490	SW 8015M
TPH as Oil	223	PT	mg/kg dw	11/05/1998	100	out	246	490	SW 8015M
N-octacosane (TPH surr)	78.0		%	11/05/1998		out	246	490	SW 8015M
UST VOLATILES NON-AQUEOUS									
Benzene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Ethylbenzene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Toluene	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Xylenes, Total	<0.01		mg/kg dw	11/07/1998	0.01	mjo		79	SW 8260A
Dibromofluoromethane (Surr)	101.0		%	11/07/1998	81-129	mjo		79	SW 8260A
Toluene-d8 (Surr)	80.6		%	11/07/1998	74-129	mjo		79	SW 8260A
4-Bromofluoromethane (Surr)	54.8	R	%	11/07/1998	70-130	mjo		79	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted			11/05/1998		mmv	769		SW 3540C

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

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ANALYTICAL REPORT

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

11/11/1998

Sample No. : 500681

NET Job No.: 98.14072

Sample Description: X-6
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 15:50
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method
PNA CMPDS - 8310 NONAQUEOUS									
Acenaphthene	<0.042		mg/kg dw	11/10/1998	0.042	keh	769	1834	SW 8310
Acenaphthylene	<0.042		mg/kg dw	11/10/1998	0.042	keh	769	1834	SW 8310
Anthracene	<0.084		mg/kg dw	11/10/1998	0.084	keh	769	1834	SW 8310
Benzo(a)anthracene	<0.10	MX	mg/kg dw	11/10/1998	0.0054	keh	769	1834	SW 8310
Benzo(b)fluoranthene	<0.0075		mg/kg dw	11/10/1998	0.0075	keh	769	1834	SW 8310
Benzo(k)fluoranthene	<0.0071		mg/kg dw	11/10/1998	0.0071	keh	769	1834	SW 8310
Benzo(a)pyrene	<0.0096		mg/kg dw	11/10/1998	0.0096	keh	769	1834	SW 8310
Benzo(ghi)perylene	<0.084		mg/kg dw	11/10/1998	0.084	keh	769	1834	SW 8310
Chrysene	<0.06		mg/kg dw	11/10/1998	0.06	keh	769	1834	SW 8310
Dibenzo(a,h)anthracene	<0.01		mg/kg dw	11/10/1998	0.01	keh	769	1834	SW 8310
Fluoranthene	<0.042		mg/kg dw	11/10/1998	0.042	keh	769	1834	SW 8310
Fluorene	<0.042		mg/kg dw	11/10/1998	0.042	keh	769	1834	SW 8310
Indeno(1,2,3-cd)pyrene	<0.018		mg/kg dw	11/10/1998	0.018	keh	769	1834	SW 8310
Naphthalene	<0.052		mg/kg dw	11/10/1998	0.052	keh	769	1834	SW 8310
Phenanthrene	<0.084		mg/kg dw	11/10/1998	0.084	keh	769	1834	SW 8310
Pyrene	<0.042		mg/kg dw	11/10/1998	0.042	keh	769	1834	SW 8310
Surr: p-Terphenyl	83.8		%	11/10/1998	43-125	keh	769	1834	SW 8310
PCB Non-Aqueous Extraction	COMPLETE			11/05/1998	COMPLETE	mmv	382		SW 3540C
PCB'S NON-AQUEOUS									
PCB-1016	<0.084		mg/kg dw	11/07/1998	0.084	tls	382	58	SW 8082
PCB-1221	<0.084		mg/kg dw	11/07/1998	0.084	tls	382	58	SW 8082
PCB-1232	<0.084		mg/kg dw	11/07/1998	0.084	tls	382	58	SW 8082
PCB-1242	<0.084		mg/kg dw	11/07/1998	0.084	tls	382	58	SW 8082
PCB-1248	<0.084		mg/kg dw	11/07/1998	0.084	tls	382	58	SW 8082
PCB-1254	<0.084		mg/kg dw	11/07/1998	0.084	tls	382	58	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-Lin Feng
ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

Sample No. : 500681

NET Job No.: 98.14072

Sample Description: X-6
ComEd-Waukegan; 1801-023-210

Date Taken: 10/29/1998
Time Taken: 15:50
IEPA Cert. No. 100221

Date Received: 10/30/1998
Time Received: 12:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.084	mg/kg dw	11/07/1998	0.084	tls	382 58	SW 8082
Decachlorobiphenyl (Surr)	74.0	%	11/07/1998	NA	tls	382 58	SW 8082
2,4,5,6-TCMX (Surr)	86.0	%	11/07/1998	NA	tls	382 58	SW 8082

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
pH, Non-Aqueous	196	7.00	7.00	100.0
pH, Non-Aqueous	197	7.00	7.00	100.0
pH, Non-Aqueous	198	7.00	7.0	100.0
Arsenic, GFAA	674	0.0250	0.0248	99.2
Arsenic, GFAA	675	0.0250	0.0243	97.2
Barium, ICP	2188	2.00	1.99	99.5
Barium, ICP	2188	2.00	2.03	101.5
Barium, ICP	2194	2.00	2.07	103.5
Cadmium, ICP	2174	1.00	1.07	107.0
Cadmium, ICP	2178	1.00	0.996	99.6
Chromium, ICP	2159	2.00	2.17	108.5
Chromium, ICP	2163	2.00	2.00	100.0
Lead, ICP	2397	2.00	2.11	105.5
Lead, ICP	2401	2.00	2.02	101.0
Mercury, CVAA	770	0.0025	0.00230	92.0
Mercury, CVAA	772	0.0025	0.00253	101.2
Selenium, GFAA	562	0.050	0.0506	101.2
Selenium, GFAA	562	0.050	0.0501	100.2
Selenium, GFAA	563	0.0500	0.0494	98.8
Silver, AA	571	0.50	0.497	99.4
Silver, AA	572	0.50	0.495	99.0
UST VOLATILES NON-AQUEOUS				
Benzene	77	50.0	53.6	107.2
Ethylbenzene	77	50.0	53.3	106.6
Toluene	77	50.0	55.2	110.4
Xylenes, Total	77	150	161	107.3
UST VOLATILES NON-AQUEOUS				
Benzene	78	50.0	54.7	109.4
Ethylbenzene	78	50.0	53.1	106.2
Toluene	78	50.0	54.9	109.8
Xylenes, Total	78	150	160	106.7
UST VOLATILES NON-AQUEOUS				
Benzene	79	50.0	48.6	97.2
Ethylbenzene	79	50.0	46.5	93.0

CCV - Continuing Calibration Verification

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Toluene	79	50.0	49.6	99.2
Xylenes, Total	79	150	140	93.3
UST VOLATILES NON-AQUEOUS				
Benzene	80	50.0	47.8	95.6
Ethylbenzene	80	50.0	45.3	90.6
Toluene	80	50.0	47.7	95.4
Xylenes, Total	80	150	138	92.0
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1833	5000	4,772	95.4
Acenaphthylene	1833	5000	5,052	101.0
Anthracene	1833	5000	5,101	102.0
Benzo(a)anthracene	1833	5000	5,100	102.0
Benzo(b)fluoranthene	1833	5000	5,023	100.5
Benzo(k)fluoranthene	1833	5000	4,833	96.7
Benzo(a)pyrene	1833	5000	4,841	96.8
Benzo(ghi)perylene	1833	5000	5,077	101.5
Chrysene	1833	5000	5,078	101.6
Dibenzo(a,h)anthracene	1833	5000	4,997	99.9
Fluoranthene	1833	5000	5,044	100.9
Fluorene	1833	5000	4,953	99.1
Indeno(1,2,3-cd)pyrene	1833	5000	5,032	100.6
Naphthalene	1833	5000	4,652	93.0
Phenanthrene	1833	5000	5,042	100.8
Pyrene	1833	5000	4,907	98.1
Surr: p-Terphenyl	1833	5000	4,856	97.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1833	5000	4,848	97.0
Acenaphthylene	1833	5000	5,219	104.4
Anthracene	1833	5000	5,161	103.2
Benzo(a)anthracene	1833	5000	5,266	105.3
Benzo(b)fluoranthene	1833	5000	4,961	99.2
Benzo(k)fluoranthene	1833	5000	4,980	99.6
Benzo(a)pyrene	1833	5000	4,874	97.5
Benzo(ghi)perylene	1833	5000	5,175	103.5

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
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NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Chrysene	1833	5000	5,175	103.5
Dibenzo(a,h)anthracene	1833	5000	5,114	102.3
Fluoranthene	1833	5000	5,133	102.7
Fluorene	1833	5000	5,041	100.8
Indeno(1,2,3-cd)pyrene	1833	5000	5,070	101.4
Naphthalene	1833	5000	4,767	95.3
Phenanthrene	1833	5000	5,120	102.4
Pyrene	1833	5000	4,980	99.6
Surr: p-Terphenyl	1833	5000	4,976	99.5
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1833	5000	4,815	96.3
Acenaphthylene	1833	5000	5,143	102.9
Anthracene	1833	5000	5,176	103.5
Benzo(a)anthracene	1833	5000	5,204	104.1
Benzo(b)fluoranthene	1833	5000	5,071	101.4
Benzo(k)fluoranthene	1833	5000	4,923	98.5
Benzo(a)pyrene	1833	5000	4,957	99.1
Benzo(ghi)perylene	1833	5000	5,149	103.0
Chrysene	1833	5000	5,232	104.6
Dibenzo(a,h)anthracene	1833	5000	5,058	101.2
Fluoranthene	1833	5000	5,090	101.8
Fluorene	1833	5000	5,015	100.3
Indeno(1,2,3-cd)pyrene	1833	5000	5,098	102.0
Naphthalene	1833	5000	4,759	95.2
Phenanthrene	1833	5000	5,135	102.7
Pyrene	1833	5000	5,004	100.1
Surr: p-Terphenyl	1833	5000	5,030	100.6
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1833	5000	4,926	98.5
Acenaphthylene	1833	5000	5,116	102.3
Anthracene	1833	5000	5,182	103.6
Benzo(a)anthracene	1833	5000	5,207	104.1
Benzo(b)fluoranthene	1833	5000	4,911	98.2
Benzo(k)fluoranthene	1833	5000	4,858	97.2

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Benzo(a)pyrene	1833	5000	4,927	98.5
Benzo(ghi)perylene	1833	5000	5,045	100.9
Chrysene	1833	5000	5,186	103.7
Dibenzo(a,h)anthracene	1833	5000	5,114	102.3
Fluoranthene	1833	5000	5,120	102.4
Fluorene	1833	5000	5,038	100.8
Indeno(1,2,3-cd)pyrene	1833	5000	5,132	102.6
Naphthalene	1833	5000	4,745	94.9
Phenanthrene	1833	5000	5,144	102.9
Pyrene	1833	5000	5,045	100.9
Surr: p-Terphenyl	1833	5000	4,911	98.2
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1834	5000	4,550	91.0
Acenaphthylene	1834	5000	5,058	101.2
Anthracene	1834	5000	5,063	101.3
Benzo(a)anthracene	1834	5000	4,980	99.6
Benzo(b)fluoranthene	1834	5000	4,930	98.6
Benzo(k)fluoranthene	1834	5000	4,872	97.4
Benzo(a)pyrene	1834	5000	4,826	96.5
Benzo(ghi)perylene	1834	5000	4,855	97.1
Chrysene	1834	5000	4,996	99.9
Dibenzo(a,h)anthracene	1834	5000	4,914	98.3
Fluoranthene	1834	5000	4,867	97.3
Fluorene	1834	5000	4,876	97.5
Indeno(1,2,3-cd)pyrene	1834	5000	4,600	92.0
Naphthalene	1834	5000	4,583	91.7
Phenanthrene	1834	5000	4,614	92.3
Pyrene	1834	5000	4,947	98.9
Surr: p-Terphenyl	1834	5000	4,831	96.6
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1834	5000	4,611	92.2
Acenaphthylene	1834	5000	5,039	100.8
Anthracene	1834	5000	5,085	101.7
Benzo(a)anthracene	1834	5000	4,971	99.4

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
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11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Benzo(b)fluoranthene	1834	5000	4,874	97.5
Benzo(k)fluoranthene	1834	5000	4,857	97.1
Benzo(a)pyrene	1834	5000	5,112	102.2
Benzo(ghi)perylene	1834	5000	4,926	98.5
Chrysene	1834	5000	5,072	101.4
Dibenzo(a,h)anthracene	1834	5000	4,944	98.9
Fluoranthene	1834	5000	4,890	97.8
Fluorene	1834	5000	4,895	97.9
Indeno(1,2,3-cd)pyrene	1834	5000	4,465	89.3
Naphthalene	1834	5000	4,705	94.1
Phenanthrene	1834	5000	4,608	92.2
Pyrene	1834	5000	4,986	99.7
Surr: p-Terphenyl	1834	5000	4,754	95.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1834	5000	4,433	88.7
Acenaphthylene	1834	5000	5,054	101.1
Anthracene	1834	5000	5,185	103.7
Benzo(a)anthracene	1834	5000	4,988	99.8
Benzo(b)fluoranthene	1834	5000	4,898	98.0
Benzo(k)fluoranthene	1834	5000	4,927	98.5
Benzo(a)pyrene	1834	5000	5,071	101.4
Benzo(ghi)perylene	1834	5000	4,983	99.7
Chrysene	1834	5000	5,015	100.3
Dibenzo(a,h)anthracene	1834	5000	5,124	102.5
Fluoranthene	1834	5000	5,102	102.0
Fluorene	1834	5000	5,010	100.2
Indeno(1,2,3-cd)pyrene	1834	5000	4,507	90.1
Naphthalene	1834	5000	4,621	92.4
Phenanthrene	1834	5000	4,812	96.2
Pyrene	1834	5000	5,147	102.9
Surr: p-Terphenyl	1834	5000	4,778	95.6
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1835	5000	4,966	99.3
PNA CMPDS - 8310 NONAQUEOUS				

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Chrysene	1835	5000	5,018	100.4
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1835	5000	4,928	98.6
PCB'S NON-AQUEOUS				
PCB-1016	58	500	494	98.8
PCB-1260	58	500	436	87.2
PCB'S NON-AQUEOUS				
PCB-1016	58	500	506	101.2
PCB-1260	58	500	444	88.8
PCB'S NON-AQUEOUS				
PCB-1016	58	500	505	101.0
PCB-1260	58	500	505	101.0
PCB'S NON-AQUEOUS				
PCB-1016	58	500	469	93.8
PCB-1260	58	500	451	90.2
PCB'S NON-AQUEOUS				
PCB-1016	58	500	498	99.6
PCB-1260	58	500	431	86.2
PCB'S NON-AQUEOUS				
PCB-1016	60	500	489	97.8
PCB-1260	60	500	490	98.0
PCB'S NON-AQUEOUS				
PCB-1016	60	500	500	100.0
PCB-1260	60	500	479	95.8
PCB'S NON-AQUEOUS				
PCB-1016	60	500	498	99.6
PCB-1016	60	500	498	99.6
PCB-1260	60	500	457	91.4
PCB-1260	60	500	457	91.4
PCB'S NON-AQUEOUS				
PCB-1016	61	500	483	96.6
PCB-1260	61	500	453	90.6
PCB'S NON-AQUEOUS				
PCB-1016	61	500	494	98.8

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

ENSR
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11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
PCB-1260	61	500	454	90.8
PCB'S NON-AQUEOUS				
PCB-1016	61	500	510	102.0
PCB-1260	61	500	503	100.6

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	236	674	<0.25	mg/Kg	0.50	SW 7060
Arsenic, GFAA	238	673	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	239	675	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1169	2188	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1172	2194	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1173	2194	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1169	2174	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1172	2178	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1173	2178	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1169	2159	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1172	2163	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1173	2163	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1169	2397	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1172	2401	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1173	2401	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	666	770	<0.040	mg/Kg	0.040	SW 7471A
Mercury, CVAA	668	772	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	236	562	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	238	562	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	239	563	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	494	571	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	496	572	<2.0	mg/Kg	2.0	SW 7760
TPH MODIFIED 8015						SW 8015M
TPH as Gas	246	490	<50	mg/Kg	50	SW 8015M
TPH as Diesel	246	490	<50	mg/Kg	50	SW 8015M
TPH as Oil	246	490	<50	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	246	490	102.0	%		SW 8015M
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		77	<0.005	mg/Kg	0.005	SW 8260A

Advisory Control Limits for Blanks:

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

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QUALITY CONTROL REPORT

BLANK ANALYSIS

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Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.14072

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Ethylbenzene		77	<0.005	mg/Kg	0.005	SW 8260A
Toluene		77	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		77	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		77	101.4	%	81-129	SW 8260A
Toluene-d8 (Surr)		77	106.4	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		77	113.4	%	70-130	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		78	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		78	<0.005	mg/Kg	0.005	SW 8260A
Toluene		78	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		78	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		78	98.0	%	81-129	SW 8260A
Toluene-d8 (Surr)		78	107.4	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		78	111.2	%	70-130	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		79	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		79	<0.005	mg/Kg	0.005	SW 8260A
Toluene		79	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		79	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		79	81.0	%	81-129	SW 8260A
Toluene-d8 (Surr)		79	91.2	%	74-129	SW 8260A
4-Bromofluoromethane (Surr)		79	101.6	%	70-130	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		80	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		80	<0.005	mg/Kg	0.005	SW 8260A
Toluene		80	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		80	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		80	81.0	%	81-129	SW 8260A
Toluene-d8 (Surr)		80	92.0	%	74-129	SW 8260A

Advisory Control Limits for Blanks:

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

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.14072

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
4-Bromofluoromethane (Surr)		80	99.0	%	70-130	SW 8260A
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Anthracene	768	1832	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	768	1832	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	768	1832	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	768	1832	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	768	1832	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	768	1832	<0.040	mg/Kg	0.040	SW 8310
Chrysene	768	1832	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	768	1832	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Fluorene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	768	1832	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	768	1832	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	768	1832	<0.040	mg/Kg	0.040	SW 8310
Pyrene	768	1832	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	768	1832	77.3	%	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Anthracene	769	1832	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	769	1832	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	769	1832	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	769	1832	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	769	1832	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	769	1832	<0.040	mg/Kg	0.040	SW 8310
Chrysene	769	1832	<0.03	mg/Kg	0.03	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.

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Dibenzo(a,h)anthracene	769	1832	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Fluorene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	769	1832	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	769	1832	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	769	1832	<0.040	mg/Kg	0.040	SW 8310
Pyrene	769	1832	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	769	1832	78.0	%	43-125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	382	58	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	382	58	86.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	382	58	80.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	382	58	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	382	58	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	382	58	84.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	382	58	78.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082

Advisory Control Limits for Blanks:

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

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QUALITY CONTROL REPORT

BLANK ANALYSIS

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

Mr. Wei-Lin Feng

11/11/1998

NET Job Number: 98.14072

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
PCB-1016	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	381	53	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	381	53	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	381	53	84.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	381	53	67.0	%	NA	SW 8082

Advisory Control Limits for Blanks:

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

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	236	674	0.50	0.55	110.0
Arsenic, GFAA	238	673	0.0100	0.0117	117.0
Arsenic, GFAA	239	675	0.0100	0.0098	98.0
Barium, ICP	1169	2188	50.0	53.0	106.0
Barium, ICP	1172	2194	5.00	5.18	103.6
Barium, ICP	1173	2194	5.00	5.11	102.2
Cadmium, ICP	1169	2174	2.50	2.61	104.4
Cadmium, ICP	1172	2178	2.50	2.71	108.4
Cadmium, ICP	1173	2178	2.50	2.53	101.2
Chromium, ICP	1169	2159	5.00	5.40	108.0
Chromium, ICP	1172	2163	5.00	5.80	116.0
Chromium, ICP	1173	2163	5.00	5.30	106.0
Lead, ICP	1169	2397	5.00	6.15	123.0
Lead, ICP	1172	2401	5.00	5.80	116.0
Lead, ICP	1173	2401	5.00	6.25	125.0
Mercury, CVAA	666	770	0.0025	0.00248	99.2
Mercury, CVAA		770	0.0020	0.00165	82.5
Mercury, CVAA	668	772	0.0025	0.00275	110.0
Mercury, CVAA		772	0.0020	0.00204	102.0
Selenium, GFAA	236	562	0.50	0.58	116.0
Selenium, GFAA	238	562	0.50	0.60	120.0
Selenium, GFAA	239	563	0.0100	0.0098	98.0
Silver, AA	494	571	0.10	0.089	89.0
Silver, AA	496	572	0.10	0.107	107.0
TPH MODIFIED 8015					
TPH as Gas	246	490	250	159	63.6
TPH as Diesel	246	490	250	207	82.8
TPH as Oil	246	490	250	202	80.8
N-octacosane (TPH surr)	246	490	100	110	110.0
UST VOLATILES NON-AQUEOUS					
Benzene		77	20.0	21.8	109.0

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Ethylbenzene		77	20.0	21.8	109.0
Toluene		77	20.0	20.8	104.0
Xylenes, Total		77	60.0	63.4	105.7
Dibromofluoromethane (Surr)		77	50.0	50.2	100.4
Toluene-d8 (Surr)		77	50.0	52.0	104.0
4-Bromofluoromethane (Surr)		77	50.0	56.5	113.0
UST VOLATILES NON-AQUEOUS					
Benzene		78	20.0	21.0	105.0
Ethylbenzene		78	20.0	20.7	103.5
Toluene		78	20.0	20.1	100.5
Xylenes, Total		78	60.0	61.6	102.7
Dibromofluoromethane (Surr)		78	50.0	48.1	96.2
Toluene-d8 (Surr)		78	50.0	51.4	102.8
4-Bromofluoromethane (Surr)		78	50.0	55.2	110.4
UST VOLATILES NON-AQUEOUS					
Benzene		79	20.0	20.6	103.0
Ethylbenzene		79	20.0	20.3	101.5
Toluene		79	20.0	19.3	96.5
Xylenes, Total		79	60.0	59.4	99.0
Dibromofluoromethane (Surr)		79	50.0	42.5	85.0
Toluene-d8 (Surr)		79	50.0	48.5	97.0
4-Bromofluoromethane (Surr)		79	50.0	50.5	101.0
UST VOLATILES NON-AQUEOUS					
Benzene		80	20.0	19.0	95.0
Ethylbenzene		80	20.0	19.0	95.0
Toluene		80	20.0	19.0	95.0
Xylenes, Total		80	60.0	58.0	96.7
Dibromofluoromethane (Surr)		80	50.0	45.0	90.0
Toluene-d8 (Surr)		80	50.0	49.0	98.0
4-Bromofluoromethane (Surr)		80	50.0	55.0	110.0
PNA CMPDS - 8310 NONAQUEOUS					

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Acenaphthene	768	1832	0.033	0.028	84.8
Acenaphthylene	768	1832	0.033	0.029	87.9
Anthracene	768	1832	0.033	0.030	90.9
Benzo(a)anthracene	768	1832	0.033	0.031	93.9
Benzo(b)fluoranthene	768	1832	0.033	0.028	84.8
Benzo(k)fluoranthene	768	1832	0.033	0.028	84.8
Benzo(a)pyrene	768	1832	0.033	0.029	87.9
Benzo(ghi)perylene	768	1832	0.033	0.028	84.8
Chrysene	768	1832	0.033	0.031	93.9
Dibenzo(a,h)anthracene	768	1832	0.033	0.029	87.9
Fluoranthene	768	1832	0.033	0.030	90.9
Fluorene	768	1832	0.033	0.030	90.9
Indeno(1,2,3-cd)pyrene	768	1832	0.033	0.028	84.8
Naphthalene	768	1832	0.033	0.028	84.8
Phenanthrene	768	1832	0.033	0.029	87.9
Pyrene	768	1832	0.033	0.033	100.0
Surr: p-Terphenyl	768	1832	2000	1,742	87.1
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	769	1832	0.033	0.028	84.8
Acenaphthylene	769	1832	0.033	0.032	97.0
Anthracene	769	1832	0.033	0.028	84.8
Benzo(a)anthracene	769	1832	0.033	0.030	90.9
Benzo(b)fluoranthene	769	1832	0.033	0.025	75.8
Benzo(k)fluoranthene	769	1832	0.033	0.032	97.0
Benzo(a)pyrene	769	1832	0.033	0.030	90.9
Benzo(ghi)perylene	769	1832	0.033	0.026	78.8
Chrysene	769	1832	0.033	0.031	93.9
Dibenzo(a,h)anthracene	769	1832	0.033	0.026	78.8
Fluoranthene	769	1832	0.033	0.028	84.8
Fluorene	769	1832	0.033	0.027	81.8
Indeno(1,2,3-cd)pyrene	769	1832	0.033	0.027	81.8

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Naphthalene	769	1832	0.033	0.022	66.7
Phenanthrene	769	1832	0.033	0.026	78.8
Pyrene	769	1832	0.033	0.030	90.9
Surr: p-Terphenyl	769	1832	2000	1,593	79.7
PCB'S NON-AQUEOUS					
PCB-1016	382	58	500	487	97.4
PCB-1260	382	58	500	475	95.0
Decachlorobiphenyl (Surr)	382	58	100	95	95.0
2,4,5,6-TCMX (Surr)	382	58	100	87	87.0
PCB'S NON-AQUEOUS					
PCB-1016	382	58	500	400	80.0
PCB-1260	382	58	500	419	83.8
Decachlorobiphenyl (Surr)	382	58	100	79	79.0
2,4,5,6-TCMX (Surr)	382	58	100	70	70.0
PCB'S NON-AQUEOUS					
PCB-1016	381	53	500	440	88.0
PCB-1260	381	53	500	454	90.8
Decachlorobiphenyl (Surr)	381	53	100	92	92.0
2,4,5,6-TCMX (Surr)	381	53	100	81	81.0

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QUALITY CONTROL REPORT

DUPLICATES

ENSR
740 Pasquinelli Drive
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14072

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
pH, Non-Aqueous		196	7.44	7.52	units	1.1
pH, Non-Aqueous		197	9.16	9.18	units	0.2
pH, Non-Aqueous		198	8.89	8.97	units	0.9
Solids, Total		2528	88.9	88.7	%	0.2
Solids, Total		2528	53.0	53.7	%	1.3
Solids, Total		2529	97.4	97.8	%	0.4

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

RPD - Relative Percent Difference

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

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

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

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials"

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

(7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

(8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.

(9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ENSR Corp.
ADDRESS 140 Pasquinelli Dr.
PHONE (630) 8671700 FAX (630) 8505307
PROJECT NAME/LOCATION ComEd Waukegan
PROJECT NUMBER 18010230010
PROJECT MANAGER Weilin Feng / Karen Dolmics

REPORT TO: K. Dolmics
INVOICE TO: ENSR
P.O. NO.
NET QUOTE NO.

MWG13-15_46049

SAMPLED BY B. Buckley (PRINT NAME) B. Buckley SIGNATURE
(PRINT NAME) SIGNATURE

DATE 1998	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: pH 9045	PNAs 8310	BTEX 8260	PCBs 8081	PCMA metals (+totals)	TPH 8015
10/29	910	B10 (0-4)	S	X						2	X	X	X	X	X	
10/29	920	B11 (0-4)	S	X						2	X	X	X	X	X	
10/29	930	B9 (0-4)	S	X						2	X	X	X	X	X	
10/29	935	B8 (0-4)	S	X						2	X	X	X	X	X	
10/29	955	B6 (0-4)	S	X						2	X	X	X	X	X	
10/29	1000	B7 (0-4)	S	X						2	X	X	X	X	X	
10/29	1110	B1 (0-4)	S	X						2	X	X	X	X	X	
10/29	1130	B15 (0-4)	S	X						2	X	X	X	X	X	
10/29	1255	B17 (0-4)	S	X						2	X	X	X	X	X	
10/29	1345	S11	S	X						2	X	X	X	X	X	X
10/29	1410	X4	S	X						2	X	X	X	X	X	X
10/29	1430	X1	S	X						2	X	X	X	X	X	X
10/29	1440	X2	S	X						2	X	X	X	X	X	X
10/29	1450	S6	S	X						2	X	X	X	X	X	X
10/29	1425	X3	S	X						2	X	X	X	X	X	X

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No ___

Is this work being conducted for regulatory enforcement action? Yes ___ No ___

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other ___ None ___

COMMENTS

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) NO FIELD FILTERED? ~~YES / NO~~ N/A

COC SEALS PRESENT AND INTACT? (YES) / NO VOLATILES FREE OF HEADSPACE? (YES) / NO

TEMPERATURE UPON RECEIPT: 2.3°C wetice Bottles supplied by NET? (YES) / NO

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

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
B. Buckley	10/29/98	1430			10/30/98	1245	P. Muriel

METHOD OF SHIPMENT: NET Pick up @ office

REMARKS:

ORIGINAL WHITE NET PROJECT MANAGER YELLOW CUSTOMER COPY

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ENSR Corp.
ADDRESS 740 Pasquinelli Dr. St. 124 Westmont, IL
PHONE (630) 887-1700 FAX (630) 850 5307
PROJECT NAME/LOCATION ComEd / Waukegan
PROJECT NUMBER 18010 23610
PROJECT MANAGER Wei-Lin Feng / Karen Dolinos

REPORT TO: K. Dolinos
INVOICE TO: ENSR
P.O. NO.
NET QUOTE NO.

SAMPLED BY B. Buckley (PRINT NAME) B. Buckley SIGNATURE
(PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: PH 9045	PNAs 8310	BTEX 8260	PCBs 8081	RCRA Metals (total)		TPH 8015				
10/29	1540	~~X4 (DD)~~ X5	S	X						2	X	X	X	X	X		X				
10/29	1550	~~X5 (MS)~~ X6	S	X						2	X	X	X	X	X		X				

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No ___
Is this work being conducted for regulatory enforcement action? Yes ___ No ___
Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other ___ None ___

COMMENTS

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO FIELD FILTERED? ~~YES / NO~~ N/A
COC SEALS PRESENT AND INTACT? (YES) / NO VOLATILES FREE OF HEADSPACE? (YES) / NO
TEMPERATURE UPON RECEIPT: 2.3°C wet 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 ___ DATE ___

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
B Buckley	10/29	1615			10/30/98	1245	P. Merrill

METHOD OF SHIPMENT Net Pick up - office
REMARKS:

[redacted]ORIGIN[redacted]TE [redacted]ET PR[redacted]MANAG[redacted]LLOW[redacted]CUST[redacted]COPY[redacted]

MWG13-15_46051

C

MWG13-15_46052

APPENDIX C

Monitoring Well Gauging and Survey Data

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

Waukegan Generating Station
10 Greenwood Avenue
Waukegan, Illinois

Project: ComEd Waukegan Generating Station
Project #: 1801-023-610
Date: 10/28/98

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-2	96.58	8.17	1.71	NA	NA	NA	1.71	94.87
MW-3	97.81	8.13	1.30	NA	NA	NA	1.30	96.51
MW-5	98.24	8.38	3.69	NA	NA	NA	3.69	94.55
MW-6	98.36	9.78	7.48	NA	NA	NA	7.48	90.88
MW-7	96.42	9.51	4.25	NA	NA	NA	4.25	92.17
MW-11	98.75	12.83	3.04	NA	NA	NA	3.04	95.71
MW-12	99.18	14.95	3.47	NA	NA	NA	3.47	95.71

Note:
TOC elevation is based on an arbitrary 100 foot benchmark.

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