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# *Free Tar Removal Action Final Report*
# *Docket No. V-W-'91-C-115*
# *Waukegan Tar Pit Site (WTPS)*

***Prepared for***
***Waukegan Tar Pit Site Respondent:***

***North Shore Gas Company (NSG)***

***August 1992***

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## AFFIDAVIT

I hereby certify under penalty of law that based on my personal knowledge and appropriate inquiries of all persons involved in preparation of the report, the information submitted is true, accurate and complete to the best of my knowledge and belief.

Lawrence D. Dalen, P.E.
BARR ENGINEERING COMPANY

8/27/92
Date

FREE TAR REMOVAL ACTION FINAL REPORT

DOCKET NO. V-W-'91-C-115

WAUKEGAN TAR PIT SITE (WTPS)

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FREE TAR REMOVAL ACTION FINAL REPORT

DOCKET NO. V-W-'91-C-115

WAUKEGAN TAR PIT SITE

## 1.0 INTRODUCTION

This report was prepared to partially fulfill the requirements of paragraph 19 of the September 5, 1991 Unilateral Administrative Order (106 Order) issued by the U.S. Environmental Protection Agency (U.S. EPA) under Section 106 of CERCLA to the respondents for the Waukegan Tar Pit Site (WTPS): North Shore Gas Company (NSG); Elgin, Joliet & Eastern Railway Company (EJ&E); and North Shore Sanitary District (NSSD). This report describes the actions taken as required by the 106 Order and described in the approved Free Tar Removal Work Plan (WP1) [Barr, 1991a]. A separate report will be prepared and submitted to the U.S. EPA which describes the activities in accordance with the Supplemental Extent of Contamination Study Work Plan (WP2) [Barr, 1992]. The objective of the removal action was to "remove all visible free tar" from the tar pit.

## 2.0 SITE DESCRIPTION

The Waukegan Tar Pit Site (site) is located in the east-central part of Waukegan, Illinois approximately 1/2 mile northeast of the downtown business district and 1/2 mile west of Lake Michigan. Figure 1 shows the location of the site. The site is located in the northeast quadrant of a vacant lot bounded on the north by Dahringer Road, on the west by Pershing Road, on the east by the EJ&E line, and on the south by a parcel of land owned by the City of Waukegan. The site is located in an industrial area and is bound on all sides by a fence. The immediate vicinity of the tar pit is shown on Figure 2.

The topography of the ground surrounding the tar pit is nearly level. Past disposal of gypsum and metal strapping immediately south of the tar pit has left the soils there softer than elsewhere in the immediate vicinity of the tar pit. Surface water is limited to water collecting on the tar pit.

The Waukegan Tar Pit Site was assigned the following temporary and permanent U.S. EPA Identification Numbers: ILP200001293 and ILD984807990.

## 3.0 LOCATION AND DESCRIPTION OF VISIBLE FREE TAR

For the emergency removal action, the U.S. EPA defined visible free tar as "tar which is free of soil including soft and hard tar." The U.S. EPA determined that removing the visible free tar and surface water within the pit constituted appropriate emergency action to mitigate any immediate hazard to human health and the environment at the site.

The U.S. EPA determined that free tar within the pit and the water on top of the tar represented an imminent hazard to the environment because the pit water was attractive to wildlife, and because the tar had been demonstrated to be a potential fire hazard. Birds landing on the water in the tar pit had been entrapped in the tar.

An investigation was previously conducted to define the lateral and vertical extent of hazardous substances in the tar pit and to identify removal methods for the tar which would be protective of human health and the environment. This investigation was required by the March 11, 1991 Administrative Order by Consent between the U.S. EPA and the Waukegan Tar Pit Site Respondents. The results of this investigation are contained in Extent of Contamination Study [Barr, 1991b].

The vertical and lateral extent of contamination at the site was evaluated on the basis of shallow borings, deep borings, and hand probes of the tar pit. The visible free tar was restricted to the area of the tar pit and a few thin, isolated occurrences of hard tar along the north edge of the pit.

## 4.0 CHRONOLOGY AND DESCRIPTION OF ACTIONS PERFORMED

The following section lists and describes in chronological order each activity that was conducted to comply with the 106 Order.

09/05/91 Unilateral Administrative Order (106 Order) issued by the U.S. EPA. The 106 Order is contained in Appendix A. The 106 Order required the Respondents to undertake and complete emergency removal activities to abate an imminent and substantial endangerment to the public health and welfare of the environment that may be presented by the actual or threatened release of hazardous substances at the site.

09/12/91 NSG stated their intentions to comply with the terms of the 106 Order by selecting Barr, 8300 Norman Center Drive, Minneapolis, MN 55347-1026 as the contractor and Mr. Lawrence D. Dalen as the Project Coordinator.

09/12/91 Submitted Free Tar Removal Work Plan (WP1) and Schedule for Submittal, Initiation, and Completion of an Extent of Contamination Study (WP2) to U.S. EPA. This work plan described the following: (1) methods that will be used to remove tar from the pit and methods of handling transporting, and processing of the tar; (2) methods for dealing with liquid waste streams that may be generated during the work; (3) operating conditions that will be required at the site including the site safety and security requirements; (4) discussion of removal and disposal options; (5) schedule for the removal action; (6) the outline and schedule for the work plan submittal, initiation, and completion of the Extent of Contamination Study (WP2); and (7) discussion of alternative for storing free tar on-site.

09/12/91 Submitted Project Safety Plan to U.S. EPA.

09/30/91 U.S. EPA submitted comments on Waukegan Tar Pit Work Plan, Site Safety Plan, and EOC study. This correspondence is contained in Appendix M.

10/07/91 Submitted revised Free Tar Removal Work Plan (WP1) and Schedule for Submittal, Initiation, and Completion of an Extent of Contamination Study (WP2) and Addendum No. 4 to the Site Safety Plan to U.S. EPA. This revised submittal addressed the U.S. EPA comments contained in their September 30, 1991 letter.

10/10/91 U.S. EPA approved WP1 and Addendum No. 4 to the Site Safety Plan. The approved WP1 is contained in Appendix B. The approved site safety plan is contained in Appendix C.

10/18/91 Chemical Waste Management, Inc. - ENRAC Division (CWM) was selected as the remediation contractor. CWM specified Adams Center Landfill (landfill) in Fort Wayne, Indiana as the primary disposal facility, and warranted that "the Disposal Facilities have been issued as of the date of execution of the Agreement, all permits, licenses, certificates or approvals, required by valid and applicable statutes, ordinances, orders, rules and regulations of the federal, state and local governments in which each is located, necessary to allow each facility to accept and store, treat, process and dispose of the Waste Materials."

11/05/91 NSG and CWM sign contract. A copy of the contract is contained in Appendix D.

11/07/91 Obtained license agreement between NSSD and NSG. This agreement granted NSG and its respective duly authorized employees and agents, including contractors and subcontractors, a temporary license to enter upon that portion of the site owned by the District for the purposes of preparing for and conducting any and all activities necessary to implement the Order. The agreement is contained in Appendix E.

11/11/91 CWM mobilized equipment and personnel to the site.

11/21/91 Obtained verbal authorization from NSSD and Illinois Environmental Protection Agency (IEPA) to discharge treated water to sanitary sewer. The permit from NSSD limited discharge to 30,000 gpd.

11/21/91 Began water removal, treatment, and discharge to sanitary sewer.

11/26/91 Began free tar excavation and solidification.

11/27/91 Transported first shipment of solidified tar to the landfill. The solidified tar was manifested as D018.

12/10/91 Requested a supplemental IEPA Water Pollution Control permit to increase the maximum daily discharge to 144,000 gpd from the Waukegan Tar pit Site.

12/11/91 NSSD approved the increased daily discharge to 144,000 gpd.

12/22/91 Modified prefilter system to allow continuous operation of the water treatment system while filter bags were being replaced.

12/26/91 Placed a second vessel of GAC in series, downstream of the original vessel.

01/04/92 Mobilized two additional roll-offs to the site for storage of solidified tar.

01/06/92 Adams Center Landfill began accepting 6 loads per day from the WTPS.

01/07/92 Mobilized five additional roll-offs to the site for storage of solidified tar.

01/07/92 CWM increased truck loading to 10 per day.

01/10/92 Completed visible free tar removal from the tar pit. Some solidified tar was stored in roll-off boxes on-site.

01/13/92 U.S. EPA conducted a progress inspection.

01/16/92 Began equipment decontamination.

01/16/92 Began placement of soil borings beneath the former tar pit and collection of soil samples.

01/17/92 Completed soil borings and soil sample collection.

01/21/92 U.S. EPA conducted a progress inspection.

01/21/92 Completed off-site disposal of solidified free tar.

01/23/92 Completed water treatment.

01/28/92 U.S. EPA determined that 'satisfactory progress has been made in the removal of "visible free tar" from the pit.'

01/28/92 Placed high density polyethylene (HDPE) panels over the former tar pit and welded panels together.

01/30/92 Began surface berm construction.

02/04/92 Completed surface berm construction.

02/12/92 Completed disposal of decontamination products and debris as hazardous waste.

02/13/92 CWM demobilized personnel and equipment from the site.

08/31/92 Submitted Free Tar Removal Action Final Report to U.S. EPA.

## 5.0 SUMMARY OF ACTIVITIES

Removal activities were conducted in accordance with the approved Free Tar Removal Work Plan (WP1) [Barr, 1991a]. These activities included dewatering, excavation of tar, solidification of excavated tar, transportation and disposal of solidified materials, and installation of HDPE cover and surface berm. The location of operations is shown on Figure 3. In addition, two soil borings were placed in the bottom of the tar pit prior to covering the bottom of the pit with the liner. The analytical results of samples collected during the soil boring were submitted to the U.S. EPA with Biweekly Progress Memorandum No. 9.

## 5.1 Dewatering

The tar was covered by approximately 6 inches of water. This water had to be removed prior to tar excavation. To dewater the pit, a sump was excavated at the edge of the pit. The end of the 3-inch suction hose was placed in a 5-gallon polyethylene pail which was submerged in the sump. The polyethylene pail served to limit sediment from being drawn into the water treatment system.

A gas powered trash pump was used to pump water through a treatment system prior to discharge to the sanitary sewer. The water treatment system consisted of a prefilter, GAC system, and a 20,000 gallon storage tank. The GAC system contained 2,000 lbs of Filtersorb 300 manufactured by Calgon Carbon Corporation. A 3-inch diameter steel discharge pipe was installed from the tank to the sanitary sewer manhole. The discharge pipe entered the manhole through a temporary manhole cover. A hole slightly larger than the pipe was cut through the temporary cover. The discharge pipe was inserted through this hole and was chained to the temporary cover. This temporary manhole cover was constructed to prevent unauthorized access to the manhole and limit surface water infiltration.

Flowmeters were installed at the discharge of the GAC system and at the manhole. Daily flowmeter readings were recorded from each meter. The total volume of water treated during this project was 1,288,000 gallons. Of the total volume, 1,269,000 gallons were discharged to the sanitary sewer. The remaining 19,000 gallons were placed on top of the liner to hold it in place. The daily flowmeter readings and the volume of water treated and discharged are shown in Table 1.

A sample port was installed on the discharge pipe near the manhole. This port allowed effluent samples to be collected at regular intervals. These samples were analyzed by NSSD's analytical laboratory. Two duplicate effluent samples were collected and analyzed by $CH_2M$ Hill Quality Analytical Laboratory in Montgomery, Alabama. The analytical results are presented in Section 10.

## 5.2 Excavation

The surficial limit of the tar pit is shown in Figure 4. The elevations at the tar surface ranged from 584.78 to 584.98 ft. MSL. The tar was excavated with a Linkbelt LS3400 and Caterpillar 215 tracked excavator. The Linkbelt excavator was equipped with a 60-foot boom and stick assembly. The excavated tar was placed in metal roll-off boxes placed along the western edge of the tar pit. The contractor began excavation along the western edge. This area contained the deepest tar deposits and was closest to the roll-off boxes. After most of the tar was excavated in this area, the contractor began excavating in the northeast corner of the pit and proceeded clockwise around the pit. To limit movement of the equipment, the tar from the eastern half of the pit was excavated and placed in a temporary stockpile in the pit near the roll-offs. The operator then repositioned the equipment and moved the stockpile into the roll-offs. As a final cleaning step, the operator scraped the surface of the silty sand layer underlying the tar. This excavated material was disposed of with the solidified tar. A clean area was maintained after this process. The lateral and vertical limits of excavation including bottom sand excavation are shown in Figure 4. The elevations at the excavation bottom ranged from 581.5 to 584.0 ft. MSL. Depth of free tar ranged from 1 to 3.5 ft.

## 5.3 Solidification

Flyash, lime kiln dust, and quick lime were used to solidify the tar. Flyash was the primary solidification agent. The solidification agents were added to the excavated tar and mixed in the roll-off boxes using the Caterpillar 215 tracked excavator. The primary purpose of the solidification agent was to adsorb all free liquids within the tar. A small stockpile of solidification agents was usually maintained in a lined, bermed area near the roll-off boxes.

Flyash was obtained from American Flyash Company in Waukegan and Romeoville, Illinois. Most of the flyash came from the Commonwealth Edison power plant located northeast of the site. Lime kiln dust and quick lime were obtained from Marblehead Lime Company in Chicago, Illinois. Wills Trucking Inc. delivered the solidification agents to the site.

The total weight of solidification agents used during this project was 880 tons. The weight of each shipment received at the site is shown in Table 2.

## 5.4 Transportation and Disposal

Solidified tar and debris were transported to the landfill by Wills Trucking, Inc. Wills Trucking, Inc. is a licensed hazardous waste transporter (EPA I.D. Number OHD068913409). This hazardous material was transported in lined dump trailers. Each truck was loaded to approximately 80,000 pounds (gross weight). The truck's weight was checked on a portable truck scale before leaving the site. Prior to leaving the site, each truck was tarped, placards (9189) were attached to all sides of the trailer, and the driver displayed the hazardous waste hauling vehicle stickers. An Indiana Uniform Hazardous Waste Manifest was completed for each shipment. The solidified tar was manifested as D018 Hazardous Waste. A copy of each manifest is contained in Appendix F. During this project, 2,825 tons of solidified tar and debris were disposed of at the landfill. This landfill had the ability to dispose five to six loads of solidified tar per day. Table 3 lists the date, manifest number and weight of each tar shipment.

## 5.5 Installation of HDPE Cover and Surface Berm

Following the completion of the tar excavation activity and approval by the U.S. EPA On-Scene Coordinator, a cover system was placed over the former tar pit area. The cover system consisted of a 60 mil HDPE geomembrane above a geotextile mat. The cover system was placed on a thin layer of ice which had formed on the graded bottom subbase. A perimeter soil berm was placed on the geomembrane.

The subgrade was approved by National Seal Company, the geotextile mat and geomembrane installation subcontractor. A geotextile mat was placed on the subgrade and the panels were tacked together. The 60 mil HDPE geomembrane was placed on the geotextile mat as shown in Figure 5 and seamed on January 28, 1992 from 1:00 a.m. to 9:00 a.m. A split-wedge fusion seaming system was employed as the primary seaming method. Extrusion welding was used on short seams, destructive test patches, and where seam testing failed. Figure 5 shows the location and type of seaming method used. Destructive seam samples were collected for every 500 feet of field seam, at each sample location two 1-inch

wide specimens were immediately tested in the field for peel and shear tensile strength, one 18-inch wide specimen was tested in an independent laboratory, and one 12-inch wide specimen was collected for archival storage. The destructive sample locations were immediately repaired using extrusion welding methods. All extrusion welds were tested in the field using vacuum testing. All seam tests were within acceptable parameters. The test results are contained in Appendix M.

Following completion of all geomembrane testing procedures, a berm was placed around the lined area as shown in Figure 6. Berm construction began on January 30, 1992 and was completed on February 3, 1992. Figure 7 presents a cross-section of the berm. The berm was designed to provide adequate weight to hold the liner in place and prevent uplift of the edges while allowing a limited slip plane should settlement occur when ice thawed in the spring. The berm will also minimize water run-on into the former tar pit.

The berm was constructed from a sandy clay material from an off-site source. The berm was placed using a D4H dozer, a 4-foot wide vibratory smooth drum compactor, and a IT-18 loader. Compaction of the berm material was achieved using this equipment and was also assisted by traffic from the hauling trucks. The actual depth of the berm was measured at six centerline locations. These locations and the depth of the berm are shown in Figure 6.

### 5.6 Installation of Soil Borings

Two soil borings were installed in the tar pit after tar removal and before cover installation. The purpose of the borings was to assess the migration of tar beneath the pit. The results of this investigation will be included in the supplemental extent of contamination report for WP2.

## 6.0 IDENTIFICATION OF ITEMS THAT AFFECTED THE COMPLETION OF THE REMOVAL ACTION

Several items affected the completion of the removal action. These items affected all aspects of the removal action. The following sections provide a description of each item.

## 6.1 Dewatering Activities

### 6.1.1 Visible Free Tar

Prior to excavation, the tar pit needed to be dewatered to facilitate excavation and solidification of free tar. To dewater the pit, a sump was excavated near the edge of the pit. Since the tar was flowable, it slowly filled the sump. Eventually, the tar would clog the intake of the pump causing high pressure losses. Each time this occurred, the system would be shut-down and the contractor would excavate the tar from the sump and clean or replace the screen, hoses, and pump. After this was complete, dewatering would resume.

### 6.1.2 Oil, Grease, and Particle Removal

The prefilter contained filter bags that adsorb oil and grease and trap particulates. These filter bags were replaced several times each day since pressure drops increased as they became clogged. The water treatment system was either shutdown each time the bags were replaced or the flow was diverted to a second prefilter so continuous pumping could be maintained.

### 6.1.3 Carbon Loading

Based on predicted carbon loading rates and volume of water treated through December 22, 1991, the need to replace the carbon was anticipated to occur in the near future. On December 26, 1991, a second vessel containing GAC was placed in series, downstream of the original vessel. The second vessel served to polish the effluent of the lead vessel, thereby reducing contaminant concentrations even further. The two vessels were to be used for the remaining dewatering activities. However, a large pressure drop developed across the first bed on January 8, 1992, causing this vessel to be removed from service. Later it was discovered that the large pressure drop was caused by tar clogging the distributor at the top of the vessel. After January 8, 1992, the system operated utilizing only the second carbon vessel.

### 6.1.4 Weather Conditions

The tar pit was initially dewatered by November 23, 1991. Major precipitation events occurred between November 27 and December 3, 1991. NSSD personnel recorded 3.86 inches of precipitation during this period. Run-off from the surrounding area flooded the pit since it was the lowest area. This flooding required substantial additional dewatering. In addition, extremely cold weather in early December hampered dewatering activities. The water treatment system and/or discharge pipe were periodically plugged with ice between December 2 and December 5, 1991. In an attempt to reduce the possibility of freeze ups, CWM wrapped the discharge pipe with heat tape and fiberglass insulation. However, this did not effectively prevent the discharge pipe from freezing. Many manhours were spent thawing the water treatment system and discharge line. In mid-December, weather conditions improved. This warmer, dryer period enabled CWM to treat water at the anticipated rates.

### 6.1.5 Groundwater Seepage

As the excavation proceeded, groundwater continuously seeped into the pit through the underlying soils. Water accumulated in the lowest area of the pit. Generally, this occurred in the area that was being excavated. To minimize the impact of water on excavation activities, CWM increased manpower and extended working hours to remove water as it accumulated in the pit.

## 6.2 Excavation of Tar

### 6.2.1 Limit of Excavation

A silty sand layer which contained vegetative materials was beneath the visible free tar. Based on the definition of free tar contained in the 106 Order, the vertical extent of contamination was determined to be the top of the silty sand layer. Tar excavation continued until the silty sand layer was identified at each location. As a final cleaning step, the operator scraped the surface of the silty sand layer maintaining a clean area. Progress inspections were conducted by the U.S. EPA On-Scene Coordinator on January 13, 1992 and January 22, 1992. Based on these inspections, the On-Scene Coordinator

determined that satisfactory progress had been made in the removal of visible free tar from the pit. This correspondence is contained in Appendix M.

### 6.2.2 Visible Free Tar

The tar was difficult to handle due to its viscous characteristics. Long strands of tar draped from the bucket as the backhoe moved the bucket of tar to the roll-off boxes. To prevent tar depositing on the ground, CWM lined the solidification area from the edge of the roll-off boxes to the edge of the tar pit with polyethylene sheeting. In addition, the sides of each roll-off were draped with polyethylene sheeting to prevent contaminating the outer walls.

Most of the excavation activity occurred from the western edge of the pit. The Extent of Contamination Study [Barr, 1991b] indicated that the tar was deepest at that location. As excavation continued, tar slowly flowed toward this area since a depression was created.

Due to the size of the pit, the backhoe could not reach all areas and place the tar in a roll-off. To limit movement of the equipment, the tar along the eastern half of the pit was excavated and placed in a temporary stockpile in the pit near the roll-offs. When space was available in the roll-offs, the operator would reposition the excavator and move the stockpile into the roll-offs. Since the roll-offs were normally full of solidified tar, the stockpile would remain in the pit for several hours or longer.

### 6.2.3 Other Materials Encountered During Excavation

Several sections of concrete pipe had been disposed along the western edge of the pit and were covered with tar. These concrete pipes were removed from the pit and crushed by the Caterpillar 215 excavator. The contaminated debris was disposed of at the landfill with the solidified tar. Five shipments of contaminated debris were transported to the landfill.

Buried bundles of dry wall still held together with strapping were encountered along the eastern edge of the tar pit. These bundles were embedded in the tar and had settled to the silty sand layer. Because the bundles were

still tied together with metal strapping, excavation in this area was difficult. Approximately 20 cubic yards of dry wall were excavated and disposed of at the landfill.

Railroad ties were encountered along the south and east side of the tar pit. The railroad ties were disposed of at the landfill since they were covered with tar.

## 6.3 Solidification of Excavated Tar

Fourteen roll-offs boxes were used at the site (5-30yd$^3$ and 9-20yd$^3$). The tar was solidified in the five 30 cubic yard and one of the 20 cubic yard boxes. The solidified tar was transferred from these boxes and placed in the other 20 cubic yard boxes for storage purposes.

Flyash was the primary solidification agent used at the site. The flyash was added to the tar to adsorb any free liquids in the mixture. Addition of solidification agents increased the weight of material requiring disposal by a project average of 45 percent.

Lime kiln dust and quick lime were also used on a trial basis to solidify the tar. These agents did not solidify the tar as efficiently as expected.

## 6.4 Transportation

Solidified tar and debris were transported to the landfill by Wills Trucking Inc. This hazardous material was transported in lined dump trailers. The trucks generally arrived on-site during late afternoon hours. The trucks were loaded in the order that they arrived on-site. After the truck was loaded, the driver would proceed to the landfill. Each truck was scheduled to dump on the following day.

## 6.5 Landfill Disposal of Solidified Tar

Adams Center Landfill initially accepted five loads per day, provided the trucks were at the landfill gate at 8:00 a.m. These trucks were given priority for dumping at the landfill. Any truck that arrived after 8:00 a.m. was not allowed to dump until the next day. After January 6, 1992, the landfill accepted six loads per day.

During this project, five loads were rejected by the landfill. Four loads were rejected due to insufficient solidification and one load because it arrived after the scheduled time.

The loads rejected because of insufficient solidification were returned to the site and resolidified. This tar was dumped from the trucks into the pit, transferred from the pit to the roll-offs, and mixed with additional flyash. A new manifest was completed for each rejected load. The load that was rejected because it arrived past the scheduled time did not return to the site. The truck remained in Fort Wayne and a new manifest was sent to the driver. This truck was allowed to dump on the following day.

## 6.6 Installation of Liner and Berm

Temperatures above freezing prior to January 22, 1992 prevented the formation of a workable subgrade in the former tar pit. The synthetic cover system was designed to be placed over ice or dry soils. Therefore, the installation was delayed until the early morning hours of January 28, 1992 when colder temperatures provided a workable subgrade for placement and seaming. Berm installation was delayed until January 30, 1992 when the geomembrane test results were complete.

# 7.0 DISCUSSION OF HOW PROBLEMS WERE SOLVED

The following sections discuss how the problems encountered during the removal action were solved.

## 7.1 Dewatering

### 7.1.1 Parallel Operation of Prefilters

The water treatment system was shutdown each time the filter bags needed to be replaced which caused significant down time. To make the system more efficient, a second prefilter was connected in parallel with the original filter on December 22, 1991. When one filter required maintenance, the flow was diverted to the other vessel and the filter bags were replaced. This set-up allowed continuous operation of the water treatment system.

### 7.1.2 Additional Carbon

Based on predicted carbon loading rates and volume of water treated through December 22, 1991 (828,000 gallons), the need to replace the carbon was anticipated to occur in the near future. Therefore, a second GAC vessel was placed in series, downstream of the original vessel on December 26, 1991. The second vessel contained 2,000 pounds of GAC and served to polish the effluent of the lead vessel, thereby reducing contaminant concentrations even further prior to discharge.

Analytical results received on January 22, 1992 indicated that the concentration of benzene exceeded 1 mg/l on December 16, 1991. After installation of the second bed, the benzene concentration decreased to below the discharge limitation. It was anticipated that the two vessels would be used for the remainder of the dewatering activities. However, the lead vessel was removed from service on January 8, 1992 because the distributor at the top of the vessel became clogged with tar. The second vessel alone was used for the remainder of the project.

It was predicted that the second GAC vessel would have sufficient adsorption capacity for the remainder of the dewatering activities. Analytical results received on February 13, 1992 indicated that benzene in excess of 1 mg/L from the second bed occurred after treating only 208,575 gallons. Dewatering activities were completed before the analytical results were received.

### 7.1.3 Increased Maximum Daily Discharge Limitation

Major precipitation events occurred between November 27 and December 3, 1991. NSSD personnel recorded 3.86 inches of precipitation during this period. Run-off from the surrounding area flooded the pit since it is the lowest area. The accumulation of water in the tar pit caused delays in excavation activities.

The original IEPA Water Pollution Control Permit restricted the discharge to the sanitary sewer to 30,000 gallons per day. Since the water treatment system was designed for a continuous operation at 100 gpm, 30,000 gallons could be treated and discharged in approximately 5 hours. The system was not operated for the rest of the day. After 4 days of treating and discharging 30,000 gallons, the water level in the pit had not significantly decreased.

On December 9, 1991, CWM presented three alternatives for controlling the accumulation of water in the pit. The alternatives were: 1) increase discharge to a level that exceeded the inflow of groundwater; 2) mobilize additional storage capacity; or 3) seek off-site disposal for the wastewater. This correspondence is contained in Appendix M.

An application for a supplemental IEPA permit was submitted on December 10, 1991. This application requested that the maximum daily discharge volume be increased to the design flow rate for the GAC system (144,000 gallons per day). IEPA approved the modifications and issued a supplemental Water Pollution Control Permit. The original and supplemental permits are contained in Appendix G. At this discharge rate, the water levels were brought under control within three days.

### 7.1.4 Established Water Treatment 24 hours per day

During excavation activities, groundwater continuously seeped through the pit bottom. Water generally accumulated in the area that was being excavated which hampered the excavation activities. To remove the water that was accumulating in the pit, CWM increased the number of workers and established two shifts. One shift began work at 2:00 a.m. This crew was responsible for removing the water that had accumulated since the water treatment system was shut

down on the previous day. The second shift operated the water treatment system from 9:00 a.m. until the end of the work day. When it became apparent that the 2:00 a.m. shift was not able to remove all the water by the time excavation resumed at daylight, CWM increased the crew size to establish three 8 hour shifts. Each shift was then responsible for removing the water as it accumulated in the pit.

### 7.2 Removal Action Deadline

The 106 Order required the removal of all visible free tar within ninety (90) calendar days after approval of WP1. This deadline was established to be the end of business on January 8, 1992. To meet this deadline, CWM dramatically increased its efforts to comply with the established deadline. Table 9 shows a large increase in manhours during the week ending January 4, 1992. The total number of manhours essentially doubled. In addition, efforts were made to increase the daily maximum number of loads that the landfill would accept. After January 6, 1992, the landfill began accepting six loads per day.

Additional roll-off boxes were brought to the site to store solidified tar prior to shipment to the landfill. Two roll-offs were delivered to the site on January 4, 1992. Five more were delivered on January 7, 1992. This increased the total number of on-site roll-off boxes to 14.

## 8.0 DISCUSSION OF REMOVAL AND DISPOSAL OPTIONS

The approved Free Tar Removal Work Plan (WP1) [Barr, 1991a] contained a discussion of removal and disposal options. A copy of the approved Work Plan is contained in Appendix B.

## 9.0 LISTING OF ULTIMATE DESTINATION FOR MATERIALS

### 9.1 Adams Center Landfill, Fort Wayne, Indiana (EPA I.D. #IND078911146)

The solidified tar was disposed of at the landfill. All materials disposed of at the landfill were identified on a waste profile sheet prior to disposal.

The waste profile is contained in Appendix H. A summary of these materials includes the following:

- Solidified tar
- Concrete pipe and debris
- Used personal protection equipment
- Used filter bags and spent GAC from the water treatment system

The total weight of materials disposed of at the landfill was 2,825 tons.

### 9.2 North Shore Sanitary District, Waukegan Plant

Treated water from dewatering activities was discharged to the NSSD Waukegan Plant pursuant to the IEPA Water Pollution Control Permit No. 1991-EN-4216-1. Approximately 1,269,000 gallons of water were discharged to the sanitary sewer during this project.

## 10.0 PRESENTATION OF ANALYTICAL RESULTS

Effluent water quality samples were collected at regular intervals. These samples were analyzed at NSSD's analytical laboratory in Gurnee, Illinois. Analytical results for these samples are presented in Tables 4 and 5. Duplicate samples were collected on December 10, 1991 and December 13, 1991. The samples were analyzed by $CH_2M$ Hill Quality Analytical Laboratory in Montgomery, Alabama. The results of these duplicate samples are shown in Tables 6 and 7. The analytical reports are contained in Appendix I.

Two tar samples were collected from the pit on January 7, 1992. These samples were analyzed for volatiles and semi-volatile organic compounds. The analytical results were submitted with Biweekly Progress Memorandum No. 8 and will be presented in the Supplemental Extent of Contamination Study Report.

## 11.0 LIST OF RESOURCES

### 11.1 Financial

The total of CWM and Barr invoices through July 22, 1992 yields a cost of approximately $1,100,000. The costs for the removal action are summarized in Table 8. The total cost was calculated based on invoices received by NSG prior to July 25, 1992. CWM performed the site work and provided transportation and disposal for the tar. Barr prepared WP1, Site Safety Plan, and this final report. In addition, Barr inspected the site work. Invoices from CWM are contained in Appendix J.

### 11.2 Personnel and Mechanical

CWM spent a total of 4,662 manhours on this removal action. A summary of personnel and total hours is shown in Table 9. The equipment dedicated to the removal action is summarized in Table 10. Copies of CWM's daily work sheets are contained in Appendix K. These daily work sheets list the equipment, personnel, and activities at the site.

The removal action was observed by Barr. Barr personnel dedicated a total of 683 manhours through February 15, 1992 to on-site observation during the removal action.

## 12.0 CERTIFICATION OF WORK

NSG certifies and attests to the fact that all work described in the approved WP1 has been completed pursuant to the requirements set forth in the 106 Order. The remaining site work required by the 106 Order is described in WP2.

## REFERENCES

Barr Engineering Co., September 12, 1991a, Free Tar Removal Work Plan (WP1) and Schedule for Submittal, Initiation, and Completion of an Extent of Contamination Study (WP2), Waukegan Tar Pit Site, Docket No. V-W-'91-C-115.

Barr Engineering Co., May, 1991b, Extent of Contamination Study, Waukegan Tar Pit Site, Waukegan, Illinois.

# *Tables*

TABLE 1

WATER TREATED AND DISCHARGED TO NSSD
WAUKEGAN TAR PIT SITE

| Date | GAC Flowmeter | | | Discharge Flowmeter | | |
|---|---|---|---|---|---|---|
| | Initial Reading | Final Reading | Volume Treated | Initial Reading | Final Reading | Volume Discharged |
| 11/21/91 | 9,999,980 | 47,061 | 47,081 | 9,999,995 | 30,006 | 30,011 |
| 11/22/91 | | 55,700 | 8,639 | | 51,194 | 21,188 |
| 11/23/91 | | 60,300 | 4,600 | | 59,722 | 8,528 |
| 11/24/91 | | | 0 | | | 0 |
| 11/25/91 | | | 0 | | | 0 |
| 11/26/91 | | | 0 | | | 0 |
| 11/27/91 | | | 0 | | | 0 |
| 11/28/91 | | | 0 | | | 0 |
| 11/29/91 | | | 0 | | | 0 |
| 11/30/91 | | | 0 | | | 0 |
| 12/01/91 | | | 0 | | | 0 |
| 12/02/91 | | | 0 | | | 0 |
| 12/03/91 | | 76,063 | 15,763 | | 71,545 | 11,823 |
| 12/04/91 | 952,196 | 966,239 | 14,043 | | | 0 |
| 12/05/91 | | | 0 | | | 0 |
| 12/06/91 | | 972,395 | 6,156 | | No Meter | 13,859 |
| 12/07/91 | | 1,012,661 | 39,833 | 9,999,992 | 30,001 | 30,009 |
| 12/08/91 | | 1,053,985 | 41,324 | | 60,000 | 29,999 |
| 12/09/91 | | 1,085,600 | 31,615 | | 90,005 | 30,005 |
| 12/10/91 | | 1,116,271 | 30,671 | | 120,004 | 29,999 |
| 12/11/91 | | 1,150,765 | 34,494 | | 197,000 | 76,996 |
| 12/12/91 | | 1,242,455 | 91,690 | | 341,000 | 144,000 |
| 12/13/91 | | 1,378,100 | 135,645 | | 425,300 | 84,300 |
| 12/14/91 | | | 0 | | | 0 |
| 12/15/91 | | | 0 | | 522,805 | 97,505 |
| 12/16/91 | | 1,521,177 | 143,077 | | 563,380 | 40,575 |
| 12/17/91 | 0 | 89,100 | 89,100 | 563,380 | 641,700 | 78,320 |
| 12/18/91 | 1,521,228 | 1,540,635 | 19,407 | 661,030 | 682,000 | 20,970 |
| 12/19/91 | | 1,559,860 | 19,225 | 732,892 | 756,450 | 23,558 |

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TABLE 1 (continued)

WATER TREATED AND DISCHARGED TO NSSD
WAUKEGAN TAR PIT SITE

| Date | GAC Flowmeter | | | Discharge Flowmeter | | |
|---|---|---|---|---|---|---|
| | Initial Reading | Final Reading | Volume Treated | Initial Reading | Final Reading | Volume Discharged |
| 12/20/91 | | 1,578,886 | 19,026 | 795,478 | 811,253 | 15,775 |
| 12/21/91 | | 1,597,780 | 18,894 | 875,110 | 888,690 | 13,580 |
| 12/22/91 | | 1,615,810 | 18,030 | 954,589 | 972,100 | 17,511 |
| 12/23/91 | | | 0 | 977,785 | 987,587 | 9,802 |
| 12/24/92 | | | 0 | | | 0 |
| 12/25/92 | | | 0 | | | 0 |
| 12/26/92 | | | 0 | | | 0 |
| 12/27/91 | 1,615,810 | 1,671,562 | 55,752 | 987,587 | 1,029,200 | 41,613 |
| 12/28/91 | | 1,684,900 | 13,338 | 1,049,650 | 1,067,800 | 18,150 |
| 12/29/91 | 1,688,200 | 1,710,633 | 22,433 | 1,151,070 | 1,172,400 | 21,330 |
| 12/30/91 | 1,706,638 | 1,725,792 | 19,154 | 1,225,200 | 1,240,800 | 15,600 |
| 12/31/91 | | NO METER | 5,541 | 1,286,900 | 1,306,425 | 19,525 |
| 01/01/92 | 1,725,810 | 1,739,087 | 13,277 | 1,306,425 | 1,312,307 | 5,882 |
| 01/02/92 | 1,739,095 | 1,750,595 | 11,500 | 1,367,645 | 1,372,990 | 5,345 |
| | 1,750,510 | 1,765,285 | 14,775 | 1,397,494 | 1,417,501 | 20,007 |
| 01/03/92 | 1,772,965 | 1,778,522 | 5,557 | 1,435,260 | 1,450,500 | 15,240 |
| 01/04/92 | 1,784,512 | 1,792,907 | 8,395 | 1,451,910 | 1,464,985 | 13,075 |
| | 1,793,102 | 1,812,180 | 19,078 | 1,470,300 | 1,482,305 | 12,005 |
| 01/05/92 | 1,812,285 | 1,832,060 | 19,775 | 1,482,305 | 1,503,300 | 20,995 |
| 01/06/92 | 1,832,060 | 1,859,350 | 27,290 | 1,503,300 | 1,522,094 | 18,794 |
| | | | | 1,527,000 | 1,537,345 | 10,345 |
| 01/07/92 | 1,859,365 | 1,881,665 | 22,300 | 1,537,345 | 1,559,564 | 22,219 |
| 01/08/92 | 1,881,665 | 1,888,140 | 6,475 | 1,559,564 | 1,566,300 | 6,736 |
| | 1,888,167 | 1,896,137 | 7,970 | | | |
| 01/09/92 | 1,896,137 | 1,921,946 | 25,809 | 1,621,500 | 1,656,000 | 34,500 |
| | 1,924,098 | 1,925,700 | 1,602 | | | |
| 01/10/92 | 1,925,700 | 1,951,652 | 25,952 | 1,656,000 | 1,677,400 | 21,400 |
| 01/11/92 | 1,951,655 | 1,976,366 | 24,711 | 1,733,229 | 1,764,530 | 31,301 |
| 01/12/92 | | | 0 | | | 0 |

TABLE 1 (continued)

WATER TREATED AND DISCHARGED TO NSSD
WAUKEGAN TAR PIT SITE

| Date | GAC Flowmeter | | | Discharge Flowmeter | | |
|---|---|---|---|---|---|---|
| | Initial Reading | Final Reading | Volume Treated | Initial Reading | Final Reading | Volume Discharged |
| 01/13/92 | 1,976,375 | 2,018,102 | 41,727 | 1,890,900 | 1,929,817 | 38,917 |
| 01/14/92 | 2,018,113 | 2,052,713 | 34,600 | 1,965,966 | 1,998,141 | 32,175 |
| 01/15/92 | 2,052,817 | 2,070,008 | 17,191 | 2,009,765 | 2,025,200 | 15,435 |
| 01/23/92 | 2,070,020 | 2,085,192 | 15,172* | | | |
| Project Totals | | | 1,287,687 | | | 1,268,902 |

* Discharged on top of liner.

TABLE 2

SOLIDIFICATION AGENTS
WAUKEGAN TAR PIT SITE

| Date | Material | Weight of Each Shipment (tons) |
|---|---|---|
| 11/26/91 | Flyash | 3.08 |
| 11/26/91 | Flyash | 5.44 |
| 11/26/91 | Flyash | 18.84 |
| 11/26/91 | Flyash | 14.54 |
| 12/03/91 | Kiln Dust | 23.45 |
| 12/04/91 | Quick Lime | 22.14 |
| 12/06/91 | Flyash | 16.56 |
| 12/09/91 | Flyash | 24.13 |
| 12/11/91 | Quick Lime | 23.23 |
| 12/16/91 | Flyash | 28.38 |
| 12/17/91 | Flyash | 26.27 |
| 12/17/91 | Flyash | 29.84 |
| 12/18/91 | Flyash | 25.76 |
| 12/18/91 | Flyash | 25.52 |
| 12/19/91 | Flyash | 24.38 |
| 12/19/91 | Flyash | 27.28 |
| 12/26/91 | Flyash | 18.60 |
| 12/30/91 | Flyash | 10.88 |
| 12/30/91 | Flyash | 6.66 |
| 12/31/91 | Flyash | 16.44 |
| 12/31/91 | Flyash | 14.45 |
| 12/31/91 | Flyash | 13.35 |
| 01/02/92 | Flyash | 18.51 |
| 01/02/92 | Flyash | 4.85 |
| 01/02/92 | Kiln Dust | 37.29 |
| 01/02/92 | Kiln Dust | 27.15 |
| 01/02/92 | Kiln Dust | 26.89 |
| 01/03/92 | Flyash | 29.95 |
| 01/04/92 | Flyash | 23.52 |
| 01/04/92 | Flyash | 23.93 |

TABLE 2 (continued)

SOLIDIFICATION AGENTS
WAUKEGAN TAR PIT SITE

| Date | Material | Weight of Each Shipment (tons) |
|---|---|---|
| 01/04/92 | Flyash | 25.95 |
| 01/04/92 | Flyash | 23.08 |
| 01/04/92 | Flyash | 25.86 |
| 01/04/92 | Flyash | 25.88 |
| 01/04/92 | Flyash | 25.45 |
| 01/04/92 | Flyash | 27.08 |
| 01/06/92 | Flyash | 27.93 |
| 01/08/92 | Flyash | 22.61 |
| 01/09/92 | Flyash | 22.48 |
| 01/09/92 | Flyash | 24.41 |
| 01/13/92 | Flyash | 20.79 |
| PROJECT TOTAL | | 882.83 |

TABLE 3

TAR DISPOSAL
WAUKEGAN TAR PIT SITE

| Date | Manifest # | Weight of Each Shipment (tons) |
|---|---|---|
| 11/27/91 | INA0596203 | 16.76 |
| 11/27/91 | INA0596204 | 16.88 |
| 11/27/91 | INA0596205 | 16.59 |
| 12/03/91 | INA0596202 | 25.17 |
| 12/05/91 | INA0596206 | 22.81 |
| 12/05/91 | INA0596207 | 26.67 |
| 12/08/91 | INA0596230 | 23.90 |
| 12/09/91 | INA0596231 | 23.94 |
| 12/09/91 | INA0461452 | 23.62 |
| 12/09/91 | INA0461453 | 25.45 |
| 12/11/91 | INA0596232 | 23.68 |
| 12/11/91 | INA0596233 | 21.67 |
| 12/15/91 | INA0596235 | 32.94 |
| 12/15/91 | INA0596236 | 25.94 |
| 12/16/91 | INA0596237 | 11.79 |
| 12/16/91 | INA0596238 | 13.42 |
| 12/17/91 | INA0596239 | 21.98 |
| 12/17/91 | INA0596240 | 19.00 |
| 12/18/91 | INA0596241 | 21.39 |
| 12/18/91 | INA0596242 | 21.00 |
| 12/18/91 | INA0596243 | 21.08 |
| 12/18/91 | INA0596244 | 21.00 |
| 12/19/91 | INA0596245 | 19.64 |
| 12/19/91 | INA0596246 | 21.55 |
| 12/19/91 | INA0596247 | 21.75 |
| 12/19/91 | INA0596248 | 22.37 |
| 12/19/91 | INA0596249 | 17.60 |
| 12/19/91 | INA0596208 | 21.83 |
| 12/22/91 | INA0596209 | 23.81 |
| 12/22/91 | INA0596210 | 22.76 |

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TABLE 3 (continued)

TAR DISPOSAL
WAUKEGAN TAR PIT SITE

| Date | Manifest # | Weight of Each Shipment (tons) |
|---|---|---|
| 12/22/91 | INA0596211 | 24.33 |
| 12/23/91 | INA0596212 | 25.20 |
| 12/26/91 | INA0624121 | 24.22 |
| 12/26/91 | INA0624120 | 24.54 |
| 12/26/91 | INA0624119 | 24.30 |
| 12/26/91 | INA0624118 | 26.04 |
| 12/29/91 | INA0624117 | 28.52 |
| 12/29/91 | INA0624116 | 25.13 |
| 12/29/91 | INA0624115 | 25.24 |
| 12/29/91 | INA0624114 | 25.03 |
| 12/29/91 | INA0624113 | Rejected @ landfill |
| 12/30/91 | INA0596193 | 22.61 |
| 12/30/91 | INA0596192 | Rejected @ landfill |
| 12/30/91 | INA0596191 | Rejected @ landfill |
| 12/30/91 | INA0596190 | Rejected @ landfill |
| 12/30/91 | INA0596189 | 24.09 |
| 12/31/91 | INA0596188 | 22.74 |
| 12/31/91 | INA0596187 | 22.64 |
| 12/31/91 | INA0596186 | 23.09 |
| 12/31/91 | INA0596185 | 22.87 |
| 12/31/91 | INA0596194 | 23.34 |
| 12/31/91 | INA0596195 | 24.46 |
| 01/02/92 | INA0596197 | 23.14 |
| 01/02/92 | INA0596198 | 22.63 |
| 01/03/92 | INA0596199 | 22.67 |
| 01/03/92 | INA0596200 | 24.41 |
| 01/04/92 | INA0596213 | Rejected @ landfill |
| 01/04/92 | INA0596214 | 22.93 |
| 01/04/92 | INA0596215 | 25.62 |
| 01/04/92 | INA0596216 | 23.13 |

TABLE 3 (continued)

TAR DISPOSAL
WAUKEGAN TAR PIT SITE

| Date | Manifest # | Weight of Each Shipment (tons) |
|---|---|---|
| 01/05/92 | INA0596217 | 21.98 |
| 01/05/92 | INA0596218 | 22.89 |
| 01/06/92 | INA0596219 | 23.68 |
| 01/06/92 | INA0596196 | 21.67 |
| 01/06/92 | INA0624151 | 22.48 |
| 01/06/92 | INA0624152 | 24.77 |
| 01/06/92 | INA0624153 | 24.14 |
| 01/06/92 | INA0624154 | 23.62 |
| 01/07/92 | INA0624155 | 23.37 |
| 01/07/92 | INA0624156 | 21.16 |
| 01/07/92 | INA0624157 | 24.06 |
| 01/07/92 | INA0624158 | 22.22 |
| 01/07/92 | INA0624159 | 23.07 |
| 01/07/92 | INA0624160 | 23.22 |
| 01/07/92 | INA0624161 | 24.35 |
| 01/07/92 | INA0624162 | 24.17 |
| 01/08/92 | INA0624163 | 23.05 |
| 01/08/92 | INA0624164 | 24.25 |
| 01/08/92 | INA0624165 | 24.81 |
| 01/08/92 | INA0624166 | 21.57 |
| 01/08/92 | INA0624167 | 22.64 |
| 01/08/92 | INA0624168 | 22.96 |
| 01/08/92 | INA0624169 | 24.58 |
| 01/08/92 | INA0624170 | 22.02 |
| 01/08/92 | INA0624171 | 24.01 |
| 01/08/92 | INA0624172 | 23.08 |
| 01/09/92 | INA0624173 | 24.31 |
| 01/09/92 | INA0624174 | 23.76 |
| 01/09/92 | INA0624175 | 22.72 |
| 01/09/92 | INA0596220 | 24.38 |

TABLE 3 (continued)

TAR DISPOSAL
WAUKEGAN TAR PIT SITE

| Date | Manifest # | Weight of Each Shipment (tons) |
|---|---|---|
| 01/09/92 | INA0596221 | 25.98 |
| 01/10/92 | INA0624276 | 22.83 |
| 01/10/92 | INA0624277 | 24.68 |
| 01/10/92 | INA0624278 | 24.35 |
| 01/10/92 | INA0624279 | 23.89 |
| 01/13/92 | INA0624280 | 22.50 |
| 01/13/92 | INA0624281 | 23.94 |
| 01/13/92 | INA0624282 | 24.55 |
| 01/14/92 | INA0624283 | 21.82 |
| 01/14/92 | INA0624284 | 16.71 |
| 01/14/92 | INA0624285 | 19.34 |
| 01/14/92 | INA0624286 | 22.67 |
| 01/14/92 | INA0624287 | 24.10 |
| 01/14/92 | INA0624288 | 22.45 |
| 01/15/92 | INA0624289 | 23.31 |
| 01/15/92 | INA0624290 | 24.77 |
| 01/15/92 | INA0624291 | 25.87 |
| 01/15/92 | INA0624292 | 24.21 |
| 01/15/92 | INA0624293 | 27.12 |
| 01/15/92 | INA0624294 | 25.37 |
| 01/16/92 | INA0624337 | 27.17 |
| 01/16/92 | INA0624336 | 26.39 |
| 01/16/92 | INA0624338 | 25.92 |
| 01/21/92 | INA0624339 | 25.27 |
| 01/21/92 | INA0624341 | 24.36 |
| 01/21/92 | INA0624327 | 24.99 |
| 01/24/92 | INA0624326 | 24.18 |
| 01/24/92 | INA0624328 | 27.30 |
| 02/04/92 | INA0624329 | 22.16 |
| 02/04/92 | INA0624663 | 25.28 |

TABLE 3 (continued)

TAR DISPOSAL
WAUKEGAN TAR PIT SITE

| Date | Manifest # | Weight of Each Shipment (tons) |
|---|---|---|
| 02/04/92 | INA0624331 | 25.75 |
| 02/05/92 | INA0624332 | 21.36 |
| 02/06/92 | INA0624333 | 24.15 |
| 02/06/92 | INA0624334 | 25.39 |
| 02/12/92 | INA0624335 | 24.01 |
| 02/12/92 | INA0624340 | 31.34 |
| PROJECT TOTAL | | 2825.38 |

TABLE 4

WATER QUALITY DATA
VOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | EFFLUENT | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 11/21/91 | 11/22/91 | 11/23/91 | 12/03/91 | 12/06/91 | 12/07/91 | 12/08/91 | 12/09/91 |
| Benzene | <2 | <2 | <2 | 5.9 | 25 | 170 | 84 | 170 |
| Bromodichloromethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Bromoform | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Carbon Tetrachloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chlorobenzene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 2-Chloroethylvinyl ether | <2 | CNV | CNV | <2 | <2 | <2 | <2 | <2 |
| Chloroform | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Dibromochloromethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,2-Dichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| trans-1,2-Dichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,2-Dichloropropane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| cis-1,3-Dichloropropene | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| trans-1,3-Dichloropropene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethyl Benzene | <2 | <2 | <2 | <2 | <2 | 3.1 | <2 | <2 |
| Methylene Chloride | <2 | <2 | <2 | 2.1 | <2 | <2 | <2 | <2 |
| 1,1,2,2-Tetrachloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Tetrachloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Toluene | 2.2 | <2 | <2 | 6.9 | 2.9 | 32 | 17 | 39 |
| 1,1,1-Trichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1,2-Trichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Trichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Trichlorofluoromethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Acetone | 30 | 16 | 22 | 20 | -- | -- | 5 | 6 |
| Xylenes, total | 15 | -- | -- | 25 | 12 | 50 | 30 | 48 |
| Tetrahydrofuran | -- | -- | -- | -- | -- | -- | -- | -- |
| Thiobismethane | -- | -- | -- | -- | -- | -- | -- | -- |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.
-- Not analyzed.

TARPIT.PRN

TABLE 4 (cont.)

WATER QUALITY DATA
VOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | EFFLUENT (cont.) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 12/10/91 | 12/11/91 | 12/11/91-12/12/91 | 12/12/91-12/13/91 | 12/13/91-12/14/91 | 12/16/91-12/17/91 | 12/18/91 | 12/19/91 |
| Benzene | 250 | 230 | 160 | 84 | 510 | 1200 | 2300 | 2700 |
| Bromodichloromethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | 2 |
| Bromoform | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Carbon Tetrachloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chlorobenzene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 2-Chloroethylvinyl ether | <2 | <2 | CNV | <2 | CNV | CNV | CNV | CNV |
| Chloroform | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Dibromochloromethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,2-Dichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| trans-1,2-Dichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,2-Dichloropropane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| cis-1,3-Dichloropropene | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| trans-1,3-Dichloropropene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethyl Benzene | 4.3 | <2 | <2 | <2 | 4.7 | 65 | 82 | 79 |
| Methylene Chloride | <2 | <2 | <2 | <2 | <2 | 2.6 | <2 | <2 |
| 1,1,2,2-Tetrachloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Tetrachloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Toluene | 62 | 62 | 31 | 6.5 | 100 | 350 | 750 | 790 |
| 1,1,1-Trichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1,2-Trichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Trichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Trichlorofluoromethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Acetone | -- | 8 | 5 | -- | -- | 6 | 320 | -- |
| Xylenes, total | 75 | 70 | 47 | 30 | 90 | 350 | 480 | 520 |
| Tetrahydrofuran | -- | -- | -- | -- | -- | -- | -- | -- |
| Thiobismethane | -- | -- | -- | -- | -- | -- | -- | -- |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.
-- Not analyzed.

TARPIT.PRN

TABLE 4 (cont.)

WATER QUALITY DATA
VOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | EFFLUENT (cont.) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 12/20/91-12/21/91 | 12/22/91 | 12/27/91 | 12/28/91 | 12/29/91 | 01/02/92 | 01/03/92-01/04/92 | 01/05/92-01/06/92 |
| Benzene | 3500 | 4400 | 3.8 | 6.5 | 160 | 640 | 780 | 1100 |
| Bromodichloromethane | 2.7 | 2.8 | <2 | <2 | <2 | <2 | <2 | <2 |
| Bromoform | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Carbon Tetrachloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chlorobenzene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 2-Chloroethylvinyl ether | CNV | CNV | CNV | CNV | CNV | CNV | CNV | CNV |
| Chloroform | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Dibromochloromethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,2-Dichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| trans-1,2-Dichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,2-Dichloropropane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| cis-1,3-Dichloropropene | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| trans-1,3-Dichloropropene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethyl Benzene | 110 | 190 | <2 | <2 | <2 | 11 | 3 | <2 |
| Methylene Chloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1,2,2-Tetrachloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Tetrachloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Toluene | 1000 | 1300 | <2 | <2 | 14 | 130 | 140 | 200 |
| 1,1,1-Trichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 1,1,2-Trichloroethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Trichloroethene | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Trichlorofluoromethane | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Acetone | 22 | 15 | -- | 12 | 13 | 34 | 32 | 41 |
| Xylenes, total | 640 | 880 | 9 | 4 | 28 | 68 | 66 | 90 |
| Tetrahydrofuran | -- | -- | -- | -- | -- | 44 | 11 | 6 |
| Thiobismethane | -- | -- | -- | -- | -- | 13 | 5 | -- |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.
-- Not analyzed.

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TABLE 4 (cont.)

WATER QUALITY DATA
VOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | EFFLUENT (cont.) | | | | |
|---|---|---|---|---|---|
| | 01/09/92 | 01/10/92 | 01/11/92 | 01/13/92 | 01/14/92 |
| Benzene | 4400 | 4700 | 4600 | 2900 | 3200 |
| Bromodichloromethane | 2.9 | 2.8 | 3.7 | 2.2 | <2 |
| Bromoform | <2 | <2 | <2 | <2 | <2 |
| Carbon Tetrachloride | <2 | <2 | <2 | <2 | <2 |
| Chlorobenzene | <2 | <2 | <2 | <2 | <2 |
| 2-Chloroethylvinyl ether | CNV | CNV | CNV | CNV | CNV |
| Chloroform | <2 | <2 | <2 | <2 | <2 |
| Dibromochloromethane | <2 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethane | <2 | <2 | <2 | <2 | <2 |
| 1,2-Dichloroethane | <2 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethene | <2 | <2 | <2 | <2 | <2 |
| trans-1,2-Dichloroethene | <2 | <2 | <2 | <2 | <2 |
| 1,2-Dichloropropane | <2 | <2 | <2 | <2 | <2 |
| cis-1,3-Dichloropropene | <3 | <3 | <3 | <3 | <3 |
| trans-1,3-Dichloropropene | <1 | <1 | <1 | <1 | <1 |
| Ethyl Benzene | 86 | 97 | 130 | 43 | 230 |
| Methylene Chloride | <2 | <2 | 2.9 | 3.3 | <2 |
| 1,1,2,2-Tetrachloroethane | <2 | <2 | <2 | <2 | <2 |
| Tetrachloroethene | <2 | <2 | <2 | <2 | <2 |
| Toluene | 1300 | 1400 | 1400 | 780 | 1000 |
| 1,1,1-Trichloroethane | <2 | <2 | <2 | <2 | <2 |
| 1,1,2-Trichloroethane | <2 | <2 | <2 | <2 | <2 |
| Trichloroethene | <2 | <2 | <2 | <2 | <2 |
| Trichlorofluoromethane | <2 | <2 | <2 | <2 | <2 |
| Acetone | 15 | 14 | 6 | -- | -- |
| Xylenes, total | 540 | 580 | 620 | 380 | 520 |
| Tetrahydrofuran | -- | -- | -- | -- | -- |
| Thiobismethane | -- | -- | -- | -- | -- |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.
-- Not analyzed.

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TABLE 5

WATER QUALITY DATA
SEMIVOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | EFFLUENT | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 11/21/91 | 11/22/91 | 11/23/91 | 12/03/91 | 12/06/91 | 12/07/91 | 12/08/91 | 12/09/91 |
| Acenaphthene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acenaphthylene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Anthracene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Benzo(a)Anthracene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | CNV |
| Benzo(b)Fluoranthene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Benzo(k)fluoranthene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Benzo(g,h,i)Perylene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Benzo(a)Pyrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Benzidine | <5 | <5 | CNV | CNV | CNV | CNV | CNV | CNV |
| Butyl Benzyl Phthalate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bis(2-Chloroethoxy)Methane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bis(2-Chloroethyl)Ether | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bis(2-Chloroisopropyl)Ether | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bis(2-Ethylhexyl)Phthalate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-Bromophenyl Phenyl Ether | <5 | <5 | CNV | CNV | CNV | CNV | <5 | CNV |
| 2-Chloronaphthalene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-Chlorophenyl Phenyl Ether | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chrysene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Dibenzo(a,h)Anthracene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Di-n-Butyl Phthalate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,3-Dichlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,4-Dichlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 3,3'-Dichlorobenzidine | CNV | CNV | CNV | CNV | CNV | CNV | CNV | CNV |
| Diethyl Phthalate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Dimethyl Phthalate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2,4-Dinitrotoluene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2,6-Dinitrotoluene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Di-n-Octyl Phthalate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Fluoranthene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Fluorene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Hexachlorobenzene | <5 | <5 | CNV | CNV | CNV | CNV | <5 | CNV |
| Hexachlorobutadiene | <5 | <5 | CNV | CNV | CNV | CNV | <5 | CNV |
| Hexachlorocyclopentadiene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Hexachloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Indeno(1,2,3-cd)Pyrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Isophorone | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | <5 | <5 | <5 | <5 | 6.5 | 52 | 64 | 35 |
| Nitrobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| N-Nitrosodi-n-Propylamine | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| N-Nitrosodiphenylamine | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Phenanthrene | <5 | <5 | <5 | <5 | 6.3 | <5 | <5 | <5 |
| Pyrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2,4-Trichlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.

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TABLE 5 (cont.)

WATER QUALITY DATA
SEMIVOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | EFFLUENT (cont.) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 12/10/91 | 12/11/91 | 12/11/91-12/12/91 | 12/12/91-12/13/91 | 12/13/91-12/14/91 | 12/16/91-12/17/91 | 12/18/91 | 12/19/91 |
| Acenaphthene | <5 | <5 | <5.0 | <5.0 | <5.0 | 17 | 18 | 16 |
| Acenaphthylene | <5 | <5 | 5.9 | <5.0 | 11 | 44 | 40 | 60 |
| Anthracene | <5 | <5 | <5.0 | <5.0 | <5.0 | 6.4 | <5.0 | 6.2 |
| Benzo(a)Anthracene | CNV | CNV | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(b)Fluoranthene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(k)fluoranthene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(g,h,i)Perylene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(a)Pyrene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzidine | CNV | CNV | CNV | CNV | CNV | CNV | CNV | CNV |
| Butyl Benzyl Phthalate | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroethoxy)Methane | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroethyl)Ether | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroisopropyl)Ether | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Ethylhexyl)Phthalate | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | 10 | <5.0 |
| 4-Bromophenyl Phenyl Ether | CNV | CNV | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 2-Chloronaphthalene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 4-Chlorophenyl Phenyl Ether | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Chrysene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Dibenzo(a,h)Anthracene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Di-n-Butyl Phthalate | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,2-Dichlorobenzene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,3-Dichlorobenzene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,4-Dichlorobenzene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 3,3'-Dichlorobenzidine | CNV | CNV | CNV | CNV | CNV | CNV | CNV | CNV |
| Diethyl Phthalate | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Dimethyl Phthalate | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 2,4-Dinitrotoluene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 2,6-Dinitrotoluene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Di-n-Octyl Phthalate | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Fluoranthene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Fluorene | <5 | <5 | <5.0 | <5.0 | <5.0 | 15 | 15 | 16 |
| Hexachlorobenzene | CNV | CNV | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachlorobutadiene | CNV | CNV | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachlorocyclopentadiene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachloroethane | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Indeno(1,2,3-cd)Pyrene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Isophorone | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Naphthalene | 54 | 89 | 24 | <5.0 | 69 | 710 | 710 | 870 |
| Nitrobenzene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| N-Nitrosodi-n-Propylamine | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| N-Nitrosodiphenylamine | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Phenanthrene | <5 | <5 | <5.0 | <5.0 | <5.0 | 22 | 22 | 21 |
| Pyrene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,2,4-Trichlorobenzene | <5 | <5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.

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TABLE 5 (cont.)

WATER QUALITY DATA
SEMIVOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | EFFLUENT (cont.) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 12/20/91-12/22/91 | 12/27/91 | 12/28/91 | 12/29/91 | 01/02/92 | 01/03/92-01/04/92 | 01/05/92-01/06/92 | 01/09/92 |
| Acenaphthene | 14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 35 |
| Acenaphthylene | 84 | <5.0 | <5.0 | <5.0 | <5.0 | 5.9 | 9.3 | 96 |
| Anthracene | 5.9 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 10 |
| Benzo(a)Anthracene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(b)Fluoranthene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(k)fluoranthene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(g,h,i)Perylene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(a)Pyrene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzidine | CNV | CNV | CNV | CNV | CNV | CNV | CNV | CNV |
| Butyl Benzyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroethoxy)Methane | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroethyl)Ether | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroisopropyl)Ether | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Ethylhexyl)Phthalate | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 4-Bromophenyl Phenyl Ether | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 2-Chloronaphthalene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 4-Chlorophenyl Phenyl Ether | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Chrysene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Dibenzo(a,h)Anthracene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Di-n-Butyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,2-Dichlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,3-Dichlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,4-Dichlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 3,3'-Dichlorobenzidine | CNV | CNV | CNV | CNV | CNV | CNV | CNV | CNV |
| Diethyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Dimethyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 2,4-Dinitrotoluene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 2,6-Dinitrotoluene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Di-n-Octyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Fluoranthene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.6 |
| Fluorene | 19 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 22 |
| Hexachlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachlorobutadiene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachlorocyclopentadiene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachloroethane | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Indeno(1,2,3-cd)Pyrene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Isophorone | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Naphthalene | 1000 | <5.0 | <5.0 | <5.0 | <5.0 | 5.3 | 160 | 1500 |
| Nitrobenzene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| N-Nitrosodi-n-Propylamine | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| N-Nitrosodiphenylamine | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Phenanthrene | 22 | <5.0 | <5.0 | <5.0 | <5.0 | 8.3 | 6.2 | 36 |
| Pyrene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 5.2 | <5.0 | 13 |
| 1,2,4-Trichlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.

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TABLE 5 (cont.)

WATER QUALITY DATA
SEMIVOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | EFFLUENT (cont.) | | | |
|---|---|---|---|---|
| | 01/10/92 | 01/11/92 | 01/13/92 | 01/14/92 |
| Acenaphthene | 33 | 32 | 29 | 28 |
| Acenaphthylene | 93 | 99 | 88 | 93 |
| Anthracene | 11 | 7.2 | 8.1 | 5.7 |
| Benzo(a)Anthracene | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(b)Fluoranthene | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(k)fluoranthene | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(g,h,i)Perylene | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzo(a)Pyrene | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzidine | CNV | CNV | CNV | CNV |
| Butyl Benzyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroethoxy)Methane | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroethyl)Ether | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Chloroisopropyl)Ether | <5.0 | <5.0 | <5.0 | <5.0 |
| Bis(2-Ethylhexyl)Phthalate | <5.0 | <5.0 | <5.0 | <5.0 |
| 4-Bromophenyl Phenyl Ether | <5.0 | <5.0 | <5.0 | <5.0 |
| 2-Chloronaphthalene | <5.0 | <5.0 | <5.0 | <5.0 |
| 4-Chlorophenyl Phenyl Ether | <5.0 | <5.0 | <5.0 | <5.0 |
| Chrysene | <5.0 | <5.0 | <5.0 | <5.0 |
| Dibenzo(a,h)Anthracene | <5.0 | <5.0 | <5.0 | <5.0 |
| Di-n-Butyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,2-Dichlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,3-Dichlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,4-Dichlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 |
| 3,3'-Dichlorobenzidine | CNV | CNV | CNV | CNV |
| Diethyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 |
| Dimethyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 |
| 2,4-Dinitrotoluene | <5.0 | <5.0 | <5.0 | <5.0 |
| 2,6-Dinitrotoluene | <5.0 | <5.0 | <5.0 | <5.0 |
| Di-n-Octyl Phthalate | <5.0 | <5.0 | <5.0 | <5.0 |
| Fluoranthene | 8.6 | 6.2 | 5.6 | <5.0 |
| Fluorene | 20 | 20 | 20 | 19 |
| Hexachlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachlorobutadiene | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachlorocyclopentadiene | <5.0 | <5.0 | <5.0 | <5.0 |
| Hexachloroethane | <5.0 | <5.0 | <5.0 | <5.0 |
| Indeno(1,2,3-cd)Pyrene | <5.0 | <5.0 | <5.0 | <5.0 |
| Isophorone | <5.0 | <5.0 | <5.0 | <5.0 |
| Naphthalene | 1800 | 1500 | 1500 | 1400 |
| Nitrobenzene | <5.0 | <5.0 | <5.0 | <5.0 |
| N-Nitrosodi-n-Propylamine | <5.0 | <5.0 | <5.0 | <5.0 |
| N-Nitrosodiphenylamine | <5.0 | <5.0 | <5.0 | <5.0 |
| Phenanthrene | 37 | 31 | 29 | 25 |
| Pyrene | 12 | 9.4 | 8.4 | <5.0 |
| 1,2,4-Trichlorobenzene | <5.0 | <5.0 | <5.0 | <5.0 |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.

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TABLE 6

DUPLICATE ANALYSIS
VOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | DUPLICATE | | DUPLICATE | |
|---|---|---|---|---|
| | 12/10/91 NSSD | 12/10/91 CH2MHILL | 12/12/91-12/13/91 NSSD | 12/12/91-12/13/91 CH2MHILL |
| Benzene | 250 | 270 | 84 | 200 |
| Bromodichloromethane | <2 | <5 | <2 | <5 |
| Bromoform | <2 | <5 | <2 | <5 |
| Carbon Tetrachloride | <2 | <5 | <2 | <5 |
| Chlorobenzene | <2 | <5 | <2 | <5 |
| 2-Chloroethylvinyl ether | <2 | <10 | <2 | <10 |
| Chloroform | <2 | <5 | <2 | <5 |
| Dibromochloromethane | <2 | <5 | <2 | <5 |
| 1,1-Dichloroethane | <2 | <5 | <2 | <5 |
| 1,2-Dichloroethane | <2 | <5 | <2 | <5 |
| 1,1-Dichloroethene | <2 | <5 | <2 | <5 |
| trans-1,2-Dichloroethene | <2 | -- | <2 | -- |
| 1,2-Dichloropropane | <2 | <5 | <2 | <5 |
| cis-1,3-Dichloropropene | <3 | <5 | <3 | <5 |
| trans-1,3-Dichloropropene | <1 | <5 | <1 | <5 |
| Ethyl Benzene | 4.3 | 42 | <2 | 14 |
| Methylene Chloride | <2 | 8 b | <2 | 12 b |
| 1,1,2,2-Tetrachloroethane | <2 | <5 | <2 | <5 |
| Tetrachloroethene | <2 | <5 | <2 | <5 |
| Toluene | 62 | 99 | 6.5 | 60 |
| 1,1,1-Trichloroethane | <2 | <5 | <2 | <5 |
| 1,1,2-Trichloroethane | <2 | <5 | <2 | <5 |
| Trichloroethene | <2 | <5 | <2 | <5 |
| Trichlorofluoromethane | <2 | <5 | <2 | <5 |
| Acetone | -- | 22 b | -- | 11 b |
| Xylenes, total | 75 | 60 | 30 | 29 |
| Tetrahydrofuran | -- | -- | -- | -- |
| Thiobismethane | -- | -- | -- | -- |
| Chloromethane | -- | <10 | -- | <10 |
| Bromomethane | -- | <10 | -- | <10 |
| Vinyl Chloride | -- | <10 | -- | <10 |
| Chloroethane | -- | <10 | -- | <10 |
| Carbon Disulfide | -- | <5 | -- | <5 |
| 1,2-Dichloroethene | -- | <5 | -- | <5 |
| Methyl Ethyl Ketone | -- | <10 | -- | <10 |
| Vinyl Acetate | -- | <10 | -- | <10 |
| 2-Hexanone | -- | <10 | -- | <10 |
| Methyl Isobutyl Ketone | -- | <10 | -- | <10 |
| Styrene | -- | 11 | -- | 8 |
| 1,3-Dichlorobenzene | -- | <5 | -- | <5 |
| 1,4-Dichlorobenzene | -- | <5 | -- | <5 |
| 1,2-Dichlorobenzene | -- | <5 | -- | <5 |
| Acrolein | -- | <100 | -- | <100 |
| Iodomethane | -- | <10 | -- | <10 |
| Acrylonitrile | -- | <100 | -- | <100 |
| Dibromomethane | -- | <5 | -- | <5 |
| Ethyl Methacrylate | -- | <5 | -- | <5 |
| 1,2,3-Trichloropropane | -- | <5 | -- | <5 |
| Trans-1,4-Dichloro-2-Butene | -- | <5 | -- | <5 |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.
-- Not analyzed.
j Reported value is less than the detection limit.
b Potential false positive value based on data validation procedure.

TARPI2.PRN

TABLE 7

DUPLICATE ANALYSIS
SEMIVOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | DUPLICATE | | DUPLICATE | |
|---|---|---|---|---|
| | 12/10/91 | 12/10/91 | 12/12/91-12/13/91 | 12/13/91 |
| | NSSD | CH2MHILL | NSSD | CH2MHILL |
| Acenaphthene | <5 | 7 j | <5.0 | 3 j |
| Acenaphthylene | <5 | 9 j | <5.0 | 5 j |
| Anthracene | <5 | <10 | <5.0 | <10 |
| Benzo(a)Anthracene | CNV | <10 | <5.0 | <10 |
| Benzo(b)Fluoranthene | <5 | <10 | <5.0 | <10 |
| Benzo(k)fluoranthene | <5 | <10 | <5.0 | <10 |
| Benzo(g,h,i)Perylene | <5 | <10 | <5.0 | <10 |
| Benzo(a)Pyrene | <5 | <10 | <5.0 | <10 |
| Benzidine | CNV | <10 | CNV | <10 |
| Butyl Benzyl Phthalate | <5 | <10 | <5.0 | <10 |
| Bis(2-Chloroethoxy)Methane | <5 | <10 | <5.0 | <10 |
| Bis(2-Chloroethyl)Ether | <5 | <10 | <5.0 | <10 |
| Bis(2-Chloroisopropyl)Ether | <5 | <10 | <5.0 | <10 |
| Bis(2-Ethylhexyl)Phthalate | <5 | <10 | <5.0 | <10 |
| 4-Bromophenyl Phenyl Ether | CNV | <10 | <5.0 | <10 |
| 2-Chloronaphthalene | <5 | <10 | <5.0 | <10 |
| 4-Chlorophenyl Phenyl Ether | <5 | <10 | <5.0 | <10 |
| Chrysene | <5 | <10 | <5.0 | <10 |
| Dibenzo(a,h)Anthracene | <5 | <10 | <5.0 | <10 |
| Di-n-Butyl Phthalate | <5 | <10 | <5.0 | 2 j |
| 1,2-Dichlorobenzene | <5 | <10 | <5.0 | <10 |
| 1,3-Dichlorobenzene | <5 | <10 | <5.0 | <10 |
| 1,4-Dichlorobenzene | <5 | <10 | <5.0 | <10 |
| 3,3'-Dichlorobenzidine | CNV | <20 | CNV | <20 |
| Diethyl Phthalate | <5 | <10 | <5.0 | <10 |
| Dimethyl Phthalate | <5 | <10 | <5.0 | <10 |
| 2,4-Dinitrotoluene | <5 | <10 | <5.0 | <10 |
| 2,6-Dinitrotoluene | <5 | <10 | <5.0 | <10 |
| Di-n-Octyl Phthalate | <5 | <10 | <5.0 | <10 |
| Fluoranthene | <5 | <10 | <5.0 | <10 |
| Fluorene | <5 | 4 j | <5.0 | <10 |
| Hexachlorobenzene | CNV | <10 | <5.0 | <10 |
| Hexachlorobutadiene | CNV | <10 | <5.0 | <10 |
| Hexachlorocyclopentadiene | <5 | <10 | <5.0 | <10 |
| Hexachloroethane | <5 | <10 | <5.0 | <10 |
| Indeno(1,2,3-cd)Pyrene | <5 | <10 | <5.0 | <10 |
| Isophorone | <5 | <10 | <5.0 | <10 |
| Naphthalene | 54 | 190 | <5.0 | <10 |
| Nitrobenzene | <5 | <10 | <5.0 | <10 |
| N-Nitrosodi-n-Propylamine | <5 | <10 | <5.0 | <10 |
| N-Nitrosodiphenylamine | <5 | <10 | <5.0 | <10 |
| Phenanthrene | <5 | 4 j | <5.0 | <10 |
| Pyrene | <5 | <10 | <5.0 | <10 |
| 1,2,4-Trichlorobenzene | <5 | <10 | <5.0 | <10 |

CNV Results were not valid. The test was performed properly but the results did not meet established criteria for acceptance.
-- Not analyzed.
j Reported value is less than the detection limit.

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TABLE 7 (cont.)

DUPLICATE ANALYSIS
SEMIVOLATILE ORGANIC COMPOUNDS
WAUKEGAN TAR PIT SITE

(Concentrations in ug/L)

| | DUPLICATE (cont.) | | DUPLICATE (cont.) | |
|---|---|---|---|---|
| | 12/10/91 | 12/10/91 | 12/12/91-12/13/91 | 12/13/91 |
| | NSSD | CH2MHILL | NSSD | CH2MHILL |
| N-Nitrosodimethylamine | -- | <10 | -- | <10 |
| Phenol | -- | 18 | -- | 43 |
| Aniline | -- | <10 | -- | <10 |
| 2-Chlorophenol | -- | <10 | -- | <10 |
| Benzyl Alcohol | -- | <10 | -- | <10 |
| o-Cresol | -- | 9 j | -- | <10 |
| p-Cresol | -- | 17 | -- | <10 |
| 2-Nitrophenol | -- | <10 | -- | <10 |
| 2,4-Dimethylphenol | -- | 15 | -- | 7 j |
| Benzoic Acid | -- | <50 | -- | <50 |
| 4-Chloroaniline | -- | <10 | -- | <10 |
| 4-Chloro-3-methylphenol | -- | <10 | -- | <10 |
| 2-Methylnaphthalene | -- | 29 | -- | <10 |
| 2,4,6-Trichlorophenol | -- | <10 | -- | <10 |
| 2,4,5-Trichlorophenol | -- | <10 | -- | <10 |
| 2-Nitroaniline | -- | <50 | -- | <50 |
| 3-Nitroaniline | -- | <50 | -- | <50 |
| 2,4-Dinitrophenol | -- | <50 | -- | <50 |
| 4-Nitrophenol | -- | <50 | -- | <50 |
| Dibenzofuran | -- | <10 | -- | <10 |
| 4-Nitroaniline | -- | <50 | -- | <50 |
| 4,6-Dinitro-2-methylphenol | -- | <50 | -- | <50 |
| 1,2-Diphenylhydrazine | -- | <10 | -- | <10 |
| Pentachlorophenol | -- | <10 | -- | <10 |
| 2-Picoline | -- | <50 | -- | <50 |
| Methyl methanesulfonate | -- | <10 | -- | <10 |
| Ethyl methanesulfonate | -- | <10 | -- | <10 |
| Acetophenone | -- | <10 | -- | <10 |
| N-Nitrosopiperidine | -- | <10 | -- | <10 |
| Phenyl-tert-butylamine | -- | <50 | -- | <50 |
| 2,6-Dichlorophenol | -- | <10 | -- | <10 |
| N-Nitroso-di-n-butylamine | -- | <10 | -- | <10 |
| 2,4-Dichlorphenol | -- | <10 | -- | <10 |
| 1,2,4,5-Tetrachlorobenzene | -- | <50 | -- | <50 |
| Pentachlorobenzene | -- | <50 | -- | <50 |
| 1-Naphthylamine | -- | <50 | -- | <50 |
| 2-Naphthylamine | -- | <50 | -- | <50 |
| 1-Chloronaphthalene | -- | <10 | -- | <10 |
| 2,3,4,6-Tetrachlorophenol | -- | <10 | -- | <10 |
| Diphenylamine | -- | <10 | -- | <10 |
| Phenacetin | -- | <10 | -- | <10 |
| 4-Aminobiphenyl | -- | <50 | -- | <50 |
| Pentachloronitrobenzene | -- | <50 | -- | <50 |
| Pronamide | -- | <10 | -- | <10 |
| p-Dimethylaminoazobenzene | -- | <10 | -- | <10 |
| 7,12-dimethylbenz(a)Antracene | -- | <10 | -- | <10 |
| 3-Methylcholanthrene | -- | <10 | -- | <10 |

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-- Not analyzed.
j Reported value is less than the detection limit.

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TABLE 8

COST SUMMARY
MARCH 1, 1992
WAUKEGAN TAR PIT SITE

| ITEM | | | COST |
|---|---|---|---|
| I. SITE WORK | | | |
| | 1. Chemical Waste Management | | |
| | | Mobilization/Demobilization | $26,194.00 |
| | | Water Treatment | $277,054.27 |
| | | Excavation, Solidification, Transportation & Disposal | $560,999.66 |
| | | Pit Closure | $47,188.60 |
| | SUBTOTAL: Chemical Waste Management | | $911,436.53 |
| II. PROJECT COORDINATION | | | |
| | Barr Engineering Company | | |
| | | November 5, 1991 | $934.75 |
| | | November 20, 1991 | $26,907.98 |
| | | November 27, 1991 | $27,771.51 |
| | | December 17, 1991 | $19,644.81 |
| | | January 28, 1992 | $26,489.23 |
| | | April 10, 1992 | $43,190.91 |
| | | April 21, 1992 | $8,561.18 |
| | | May 18, 1992 | $1,331.24 |
| | | July 9, 1992 | $664.15 |
| | | July 22, 1992 | $856.98 |
| | SUBTOTAL: Barr Engineering Company | | $156,352.74 |
| TOTAL COST OF REMOVAL ACTION | | | $1,083,211.11 |

TABLE 9

TOTAL HOURS
WAUKEGAN TAR PIT SITE

| Week Ending | Chemical Waste Management | | | Barr Engineering Company | | |
|---|---|---|---|---|---|---|
| | Average Crew Size | Average Work Day | Total Hours | Average Crew Size | Average Work Day | Total Hours |
| 11/16/91 | 3.4 | 10.0 | 170.5 | 1.0 | 8.2 | 32.7 |
| 11/23/91 | 2.8 | 10.3 | 174.5 | 1.0 | 9.3 | 55.6 |
| 11/30/91 | 5.3 | 9.1 | 145.5 | 1.0 | 7.4 | 29.7 |
| 12/07/91 | 5.2 | 11.4 | 352.0 | 1.0 | 11.1 | 77.4 |
| 12/14/91 | 5.6 | 10.3 | 401.0 | 1.0 | 10.5 | 62.8 |
| 12/21/91 | 5.4 | 10.0 | 381.0 | 1.0 | 8.6 | 60.3 |
| 12/28/91 | 5.3 | 7.3 | 232.0 | 1.3 | 6.9 | 54.9 |
| 01/04/92 | 8.7 | 9.0 | 548.0 | 1.1 | 9.8 | 78.4 |
| 01/11/92 | 7.7 | 9.5 | 510.5 | 1.0 | 9.5 | 66.4 |
| 01/18/92 | 7.8 | 9.3 | 438.0 | 1.0 | 12.2 | 73.0 |
| 01/25/92 | 8.2 | 8.9 | 435.0 | 1.0 | 7.2 | 36.0 |
| 02/01/92 | 8.3 | 9.0 | 452.0 | 1.0 | 8.0 | 55.8 |
| 02/08/92 | 7.0 | 8.9 | 313.0 | 0.0 | 0.0 | 0.0 |
| 02/15/92 | 3.3 | 8.4 | 109.0 | 0.0 | 0.0 | 0.0 |
| Project Total | | | 4,662.0 | | | 683.0 |

TABLE 10

EQUIPMENT DEDICATED TO REMOVAL ACTION
WAUKEGAN TAR PIT SITE

| Equipment | Equipment-Day |
|---|---|
| Service Vehicle(s) | 122 |
| Pickup(s) | 137 |
| LS3400 Excavator | 53 |
| Cat 215 Excavator | 79 |
| Case 590 Backhoe | 3 |
| IT-18 Loader | 79 |
| D4H Dozer | 29 |
| Compactor | 2 |
| 50 kW Generator | 70 |
| 3" Pump | 68 |
| Office Trailer | 79 |
| Decon Trailer | 72 |
| Carbon Unit(s) | 99 |
| Frac Tank | 67 |
| Light Plants | 54 |
| Mobile Phone | 5 |
| Semi-Tractors w/Dump Trailers | 126 |
| Roll-Off Boxes | 564 |

# *Figures*

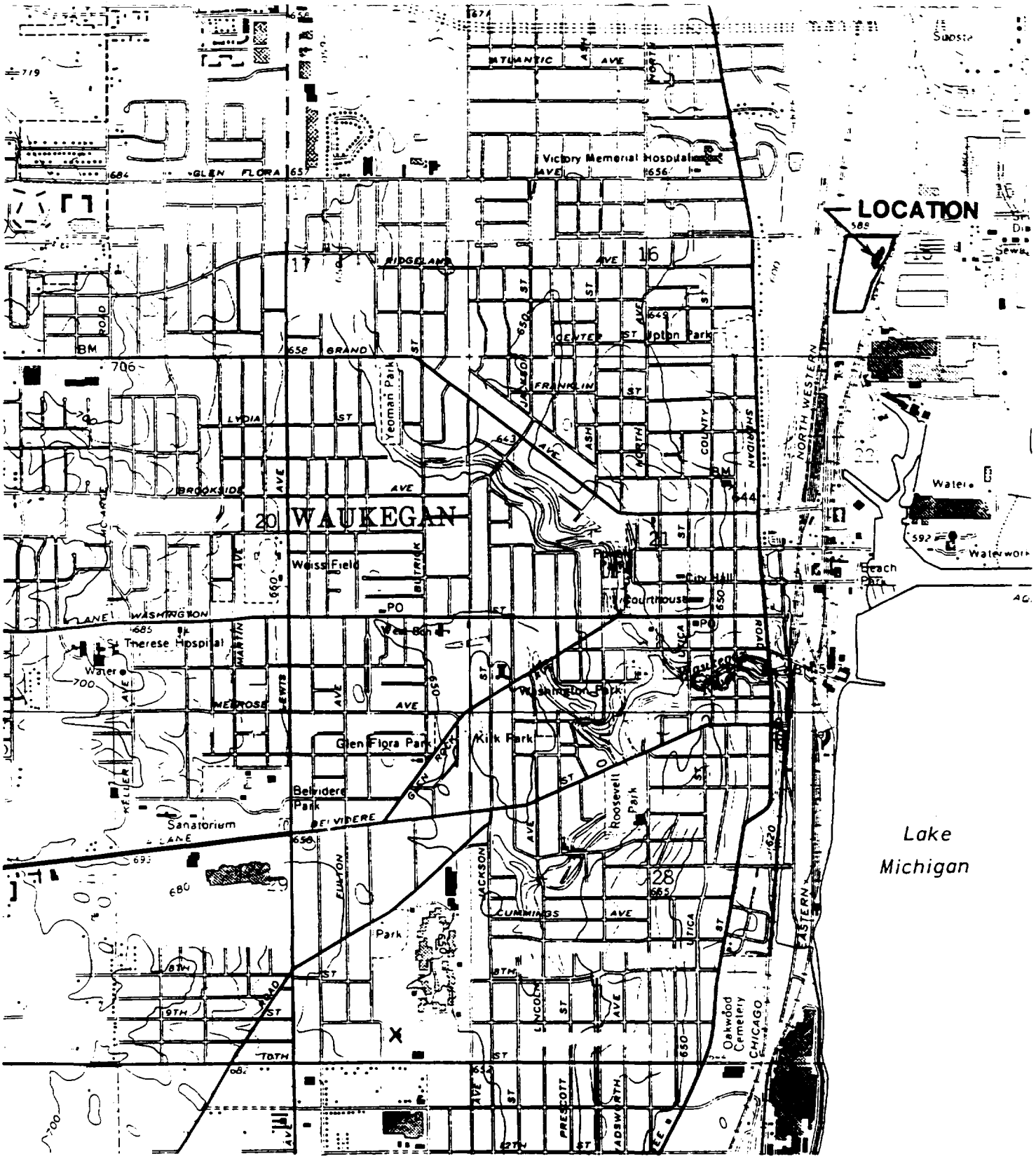
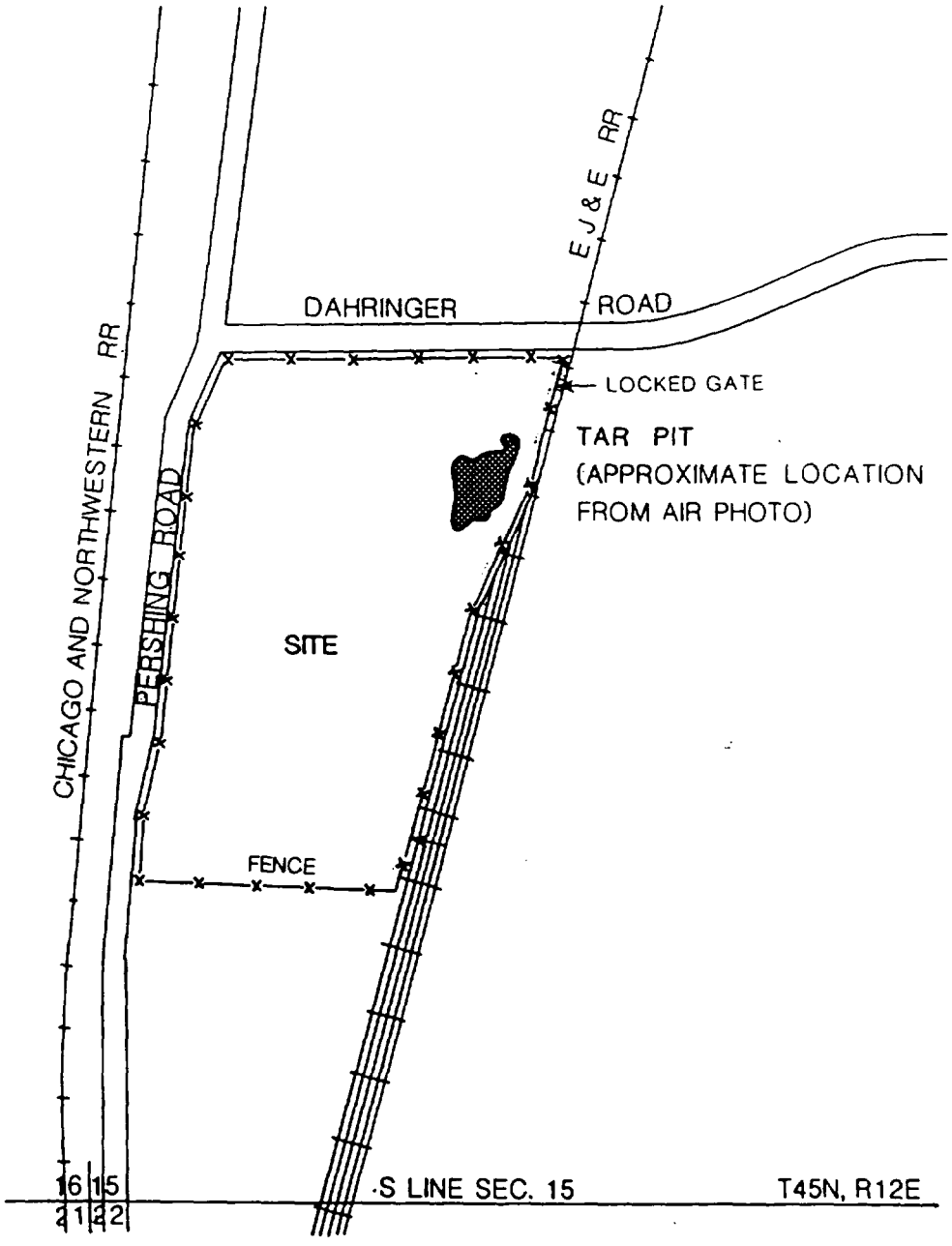
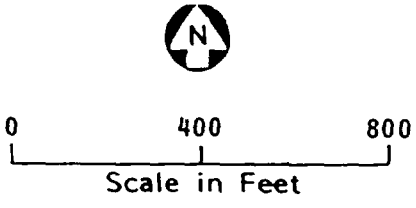



Figure 1

Waukegan Tar Pit Site
LOCATION MAP




—x—x— Chain Link Fence
(Approximate Location)

Figure 2

Waukegan Tar Pit Site
MAP OF IMMEDIATE VICINITY AND TAR PI

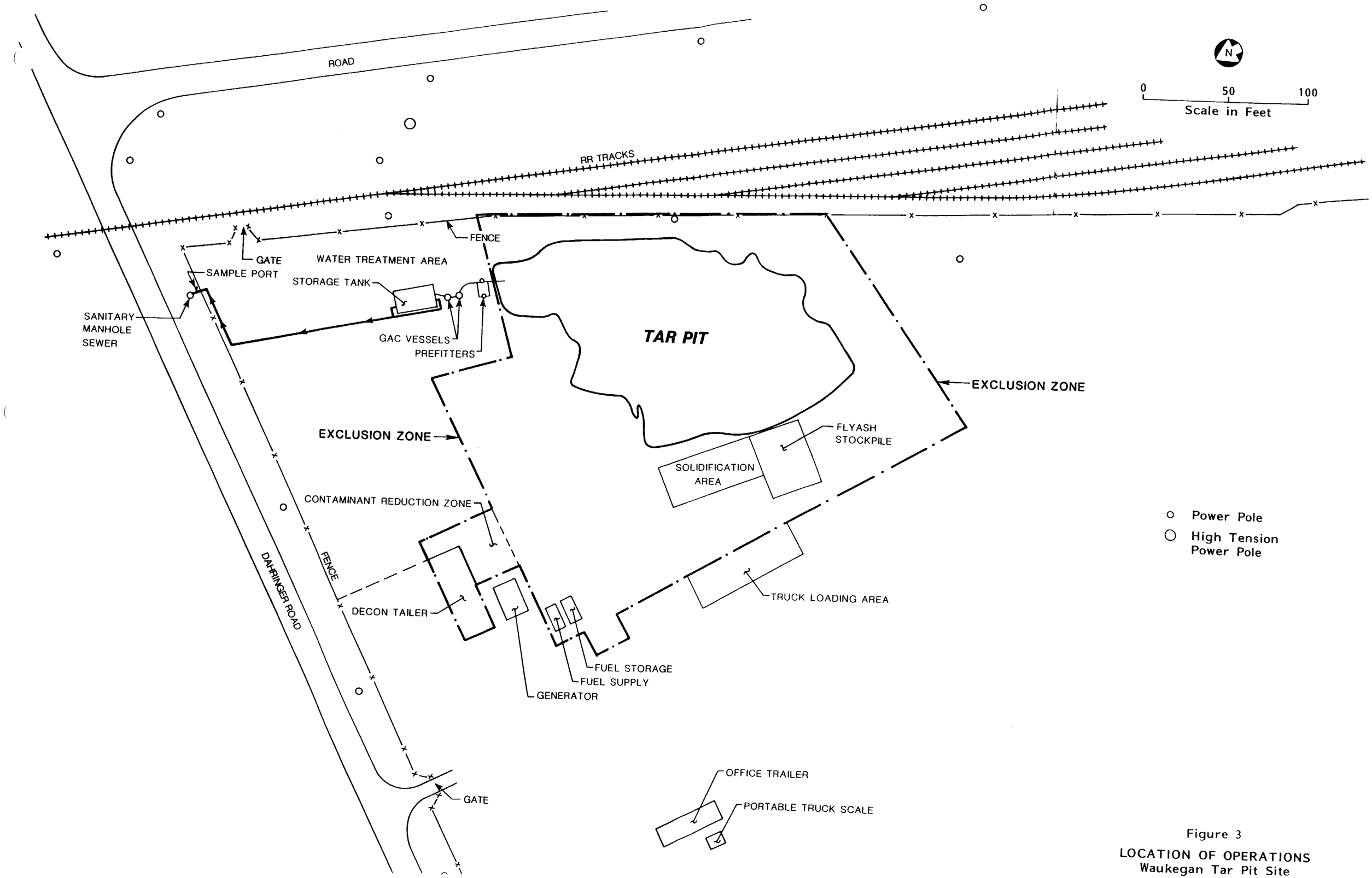



Figure 3

LOCATION OF OPERATIONS
Waukegan Tar Pit Site

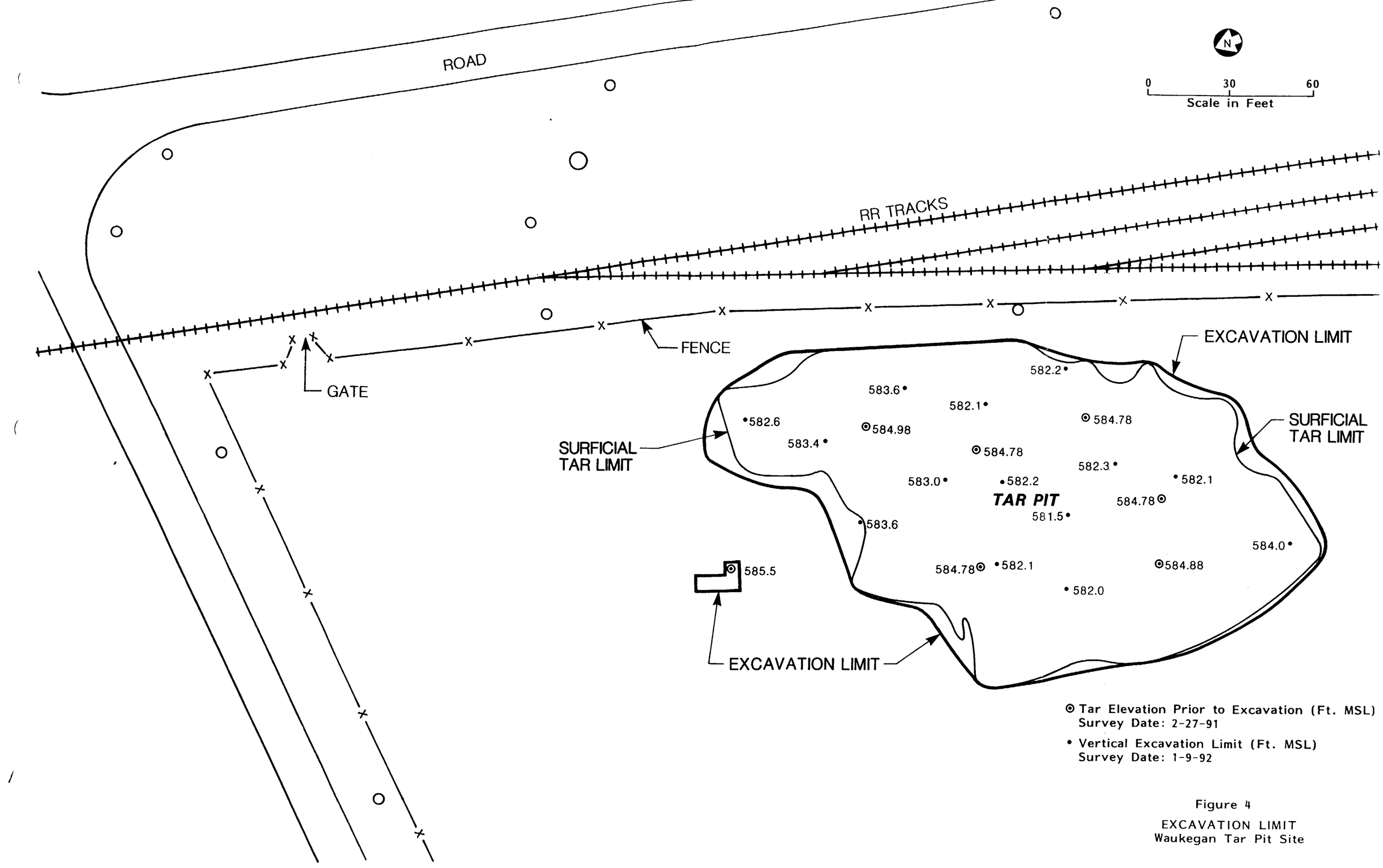
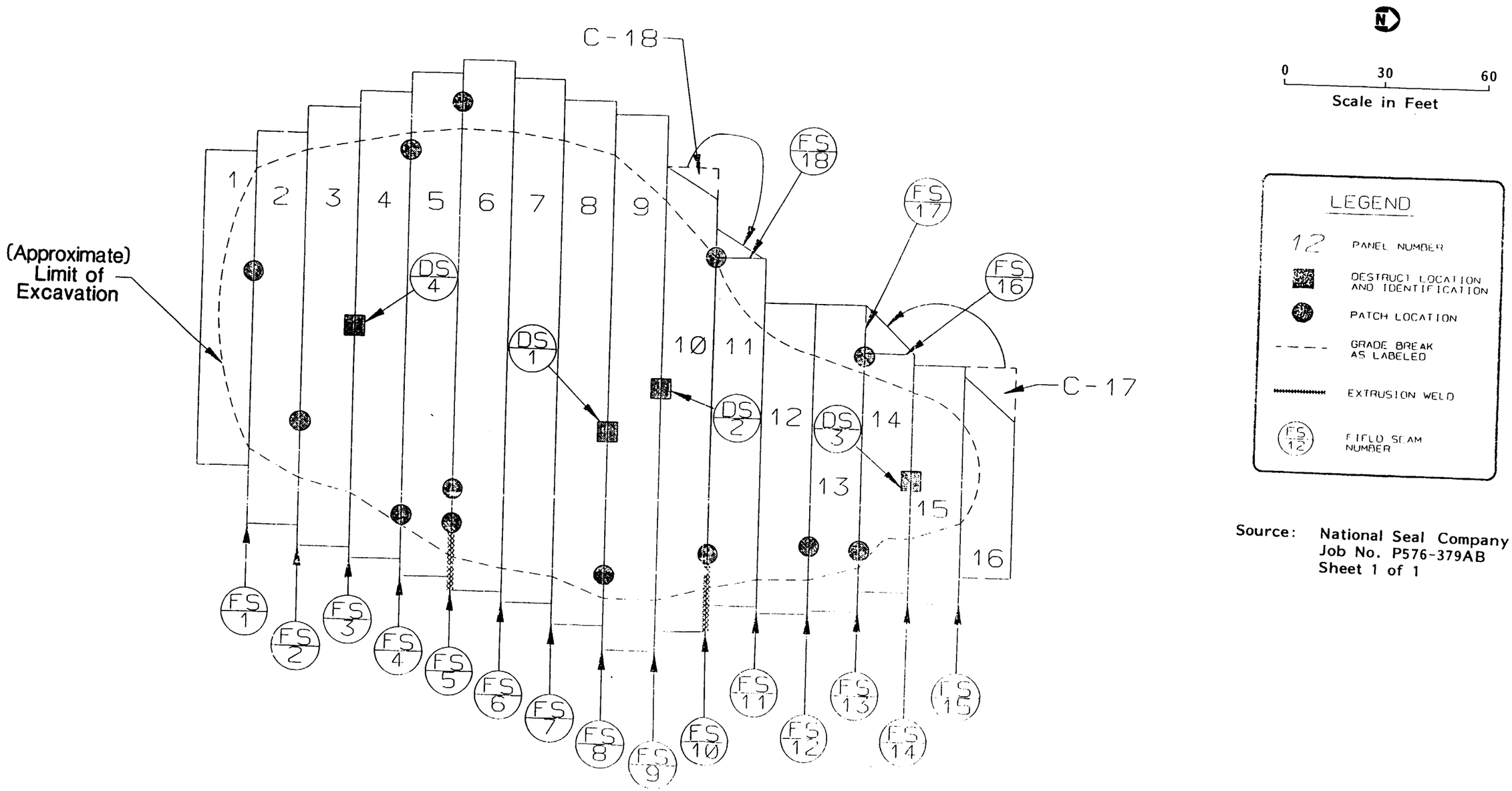



Figure 4

EXCAVATION LIMIT
Waukegan Tar Pit Site




Source: National Seal Company
Job No. P576-379AB
Sheet 1 of 1

Figure 5

60 MIL HDPE
PANEL LAYOUT
CONSTRUCTION DRAWING
Waukegan Tar Pit Site

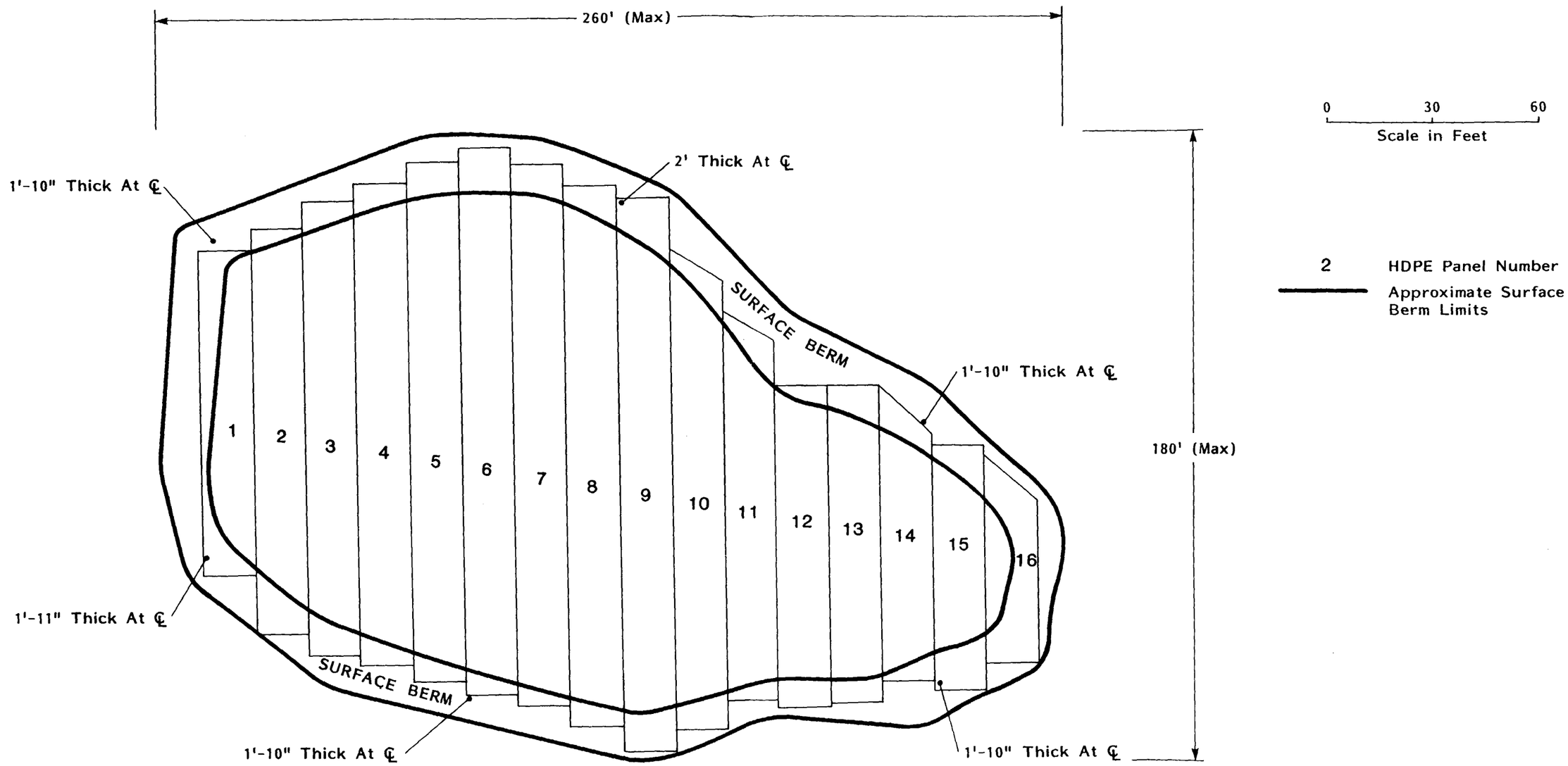



Figure 6

BERM PLACEMENT AND THICKNESS
Waukegan Tar Pit Site

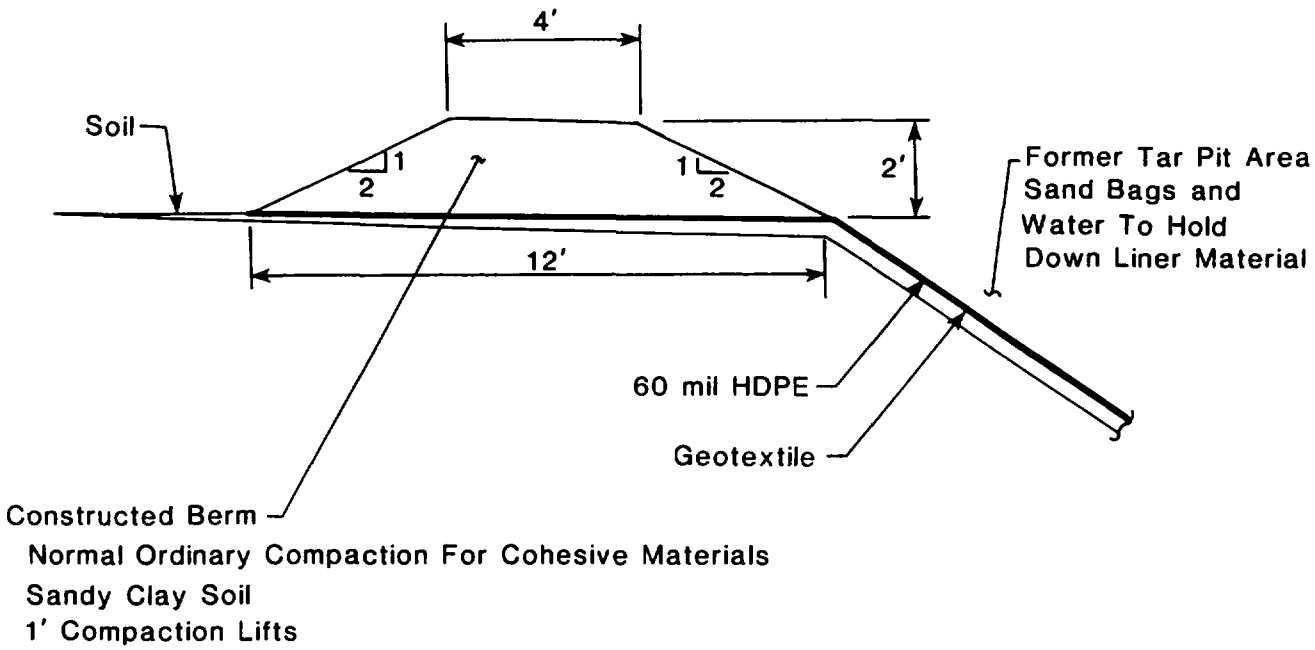



Figure 7

BERM CROSS-SECTION
FORMER TAR PIT COVER SYSTEM

# *Appendices*

# *Appendix A*

## *Unilateral Administrative Order*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN STREET
CHICAGO, IL 60604

SEP 05 1991

REPLY TO THE ATTENTION OF:
5HS-12

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Russ Selman
c/o Bell, Boyd & Lloyd
3 First National Plaza, Suite 2900
Chicago, IL 60602

Re: Waukegan Tar Pit

Dear Sir or Madam:

Enclosed please find a unilateral Administrative Order issued by the U.S. Environmental Protection Agency (EPA) under Section 106 of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (CERCLA), 42 U.S.C. Section 9601, et seq.

Please be advised that upon signature by the Director of Waste Management, this Unilateral Administrative Order will vacate and supercede the Unilateral Administrative Order issued on July 30, 1991.

If you have any questions regarding the Order, feel free to contact Sean Mulroney, Assistant Regional Counsel, at (312) 886-7150 or Cindy Nolan, On-Scene Coordinator, at (312) 886-6246.

Sincerely yours,

David A. Ullrich

David A. Ullrich, Director
Waste Management Division

Enclosure

cc: William Radlinski
Illinois Environmental Protection Agency

Printed on Recycled Paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

| | | |
|---|---|---|
| IN THE MATTER OF: | ) | Docket No. V-W-'91-C-115 |
| | ) | |
| WAUKEGAN TAR PIT SITE | ) | ADMINISTRATIVE ORDER |
| | ) | PURSUANT TO SECTION 106 |
| | ) | OF THE COMPREHENSIVE |
| | ) | ENVIRONMENTAL RESPONSE, |
| Respondents: | ) | COMPENSATION, AND |
| | ) | LIABILITY ACT OF 1980 |
| NORTH SHORE GAS COMPANY | ) | as amended, 42 U.S.C. |
| ELGIN, JOLIET & EASTERN RAILWAY CO | ) | Section 9606(a) |
| NORTH SHORE SANITARY DISTRICT | ) | |

## PREAMBLE

This Administrative Order (Order) is issued on this date to Respondents, North Shore Gas Company; Elgin,Joliet & Eastern Railway Company; and North Shore Sanitary District.

It is issued pursuant to the authority vested in the President of the United States by Section 106(a) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. Section 9606(a), as amended by the Superfund Amendments and Reauthorization Act of 1986 Pub. L. 99-499 (CERCLA), and delegated to the Administrator of the United States Environmental Protection Agency (U.S. EPA) by Executive Order No. 12580, January 23, 1987, 52 Federal Register 2923, and further delegated to the Assistant Administrator for Solid Waste and Emergency Response and the Regional Administrators by U.S. EPA Delegation Nos. 14-14-A and 14-14-B, and to the Director, Waste Management Division, Region V, by Regional Delegation 14-14-A and 14-14-B.

By copy of this Order the State of Illinois has been notified of the issuance of this Order as required by Section 106(a) of CERCLA, 42 U.S.C. Section 9606(a).

This Order requires the Respondents to undertake and complete emergency removal activities to abate an imminent and substantial endangerment to the public health and welfare or the environment that may be presented by the actual or threatened release of hazardous substances at the site.

## FINDINGS

Based on available information, including the Administrative Record in this matter, U.S. EPA hereby finds:

1. The Waukegan Tar Pit Site (Site) is located in the northeast quadrant of a vacant lot bounded on the north by Dahringer Road, on the west by Pershing Road, on the east by the Elgin, Joliet & Eastern Railway Company (EJ&E) line, and on the south by a parcel of land owned by the City of Waukegan. The Site is situated in an industrial area and is now bounded on all sides by a fence.

2. Currently, a portion of the Site is owned by the North Shore Sanitary District (NSSD) and a portion is owned by EJ&E. Previously, the property was divided into two parcels, the eastern parcel was owned by EJ&E and the western parcel was owned by North Shore Gas Company (NSG). NSG operated a coal gasification plant on the western portion of the Site. The plant has since been demolished.

3. In July of 1988, the local fire department and the Illinois Environmental Protection Agency (IEPA) responded to a fire on a pit located in the northeastern portion of the property described above. Samples of the tar collected by the IEPA indicated the presence of volatile organic compounds with a flash point of 60 degrees Fahrenheit. Based on the Illinois Emergency Services Disaster Agency (ESDA) report dated July 13, 1988 the IEPA determined that, at that time, there were no public safety concerns at the tar pit.

4. In 1990, the U.S. EPA received reports from private citizens that migrating waterfowl and other wildlife were becoming trapped and dying in the tar. The U.S. Fish and Wildlife Service was also investigating these reports.

5. A site assessment was performed by the U.S. EPA and Technical Assistance Team (TAT) in September 1990. A pond approximately 125 feet long by 60 feet wide was observed in the northeastern portion of the site. The pond consisted of 4 to 6 inches of water overlying a pit of tar of unknown depth. The U.S. EPA and TAT observed stressed vegetation and tar oozing to the soil surface beyond the visible boundaries of the pond. Samples collected from the tar and water indicate the presence of high levels of volatile organic compounds including benzene. A tar sample collected north of the pond had a flash point of 72 degrees Fahrenheit.

6. The potentially responsible parties (PRPs); NSSD, NSG, and EJ&E, were given verbal notification on September 19, 1990 by the U.S. EPA to restrict access to the Site including the tar pit by humans and wildlife and took prompt action on September 20, 1990 to install a fence to enclose the property and string flags across the pond to deter migrating blue heron and other waterfowl from landing. The fence was completed on September 28, 1990.

7. On March 11, 1991 an Administrative Order by Consent was issued to the potentially responsible parties (PRPs). The Order required the Respondents to conduct an extent of contamination study to define the vertical and lateral extent of hazardous substances in the tar pit.

8. Pursuant to the Administrative Order by Consent issued on March 11, 1991, the PRPs submitted an extent of contamination study. The PRPs found that the flowable tar in the tar pit has a flash point of greater than 200 degrees Fahrenheit. Total Polynuclear Aromatic Hydrocarbons (PAHs) are 120,000 milligrams per kilogram (mg/kg). The highest single component, naphthalene was found as 32,000 mg/kg. Volatile Organic Compounds (VOCs) including benzene (79 mg/kg), ethyl benzene (65 mg/kg), toluene (130 mg/kg) and xylene (130 mg/kg) were found. In one of two composite soil samples, the TCLP for benzene was at 14.0 milligrams per liter (mg/l). The volume of the tar was estimated to be approximately 1,300 cubic yards, the specific gravity was estimated at 1.185 and the estimated weight was 2.6 million pounds.

## DETERMINATIONS

Based on the foregoing Findings, U.S. EPA has determined that:

1. Waukegan Tar Pit is a "facility" as defined by Section 101(9) of CERCLA, 42 U.S.C. Section 9601(9).

2. Each Respondent is a "person" as defined by Section 101(21) of CERCLA, 42 U.S.C. Section 9601(21).

3. Each Respondent arranged for disposal or transport for disposal of hazardous substances at the Waukegan Tar Pit Site, or is a past or present owner or operator of the facility. Each Respondent is therefore a liable person under Section 107(a) of CERCLA, 42 U.S.C. Section 9607(a).

4. Volatile organic compounds, including benzene, are "hazardous substances" as defined by Section 101(14) of CERCLA, 42 U.S.C. Section 9601(14).

5. For the purpose of removal activities in number 5 of the Order section in this Order, tar is defined as the analytical detection of total polyaromatic hydrocarbons (PAHs), carcinogenic PAHs categorized as A, B1, B2, volatile organic compounds (VOCs) to include the following: VOCs detected in tar samples to date and additional VOCs detected in future tar sampling; benzene, ethylbenzene, toluene, xylenes (total), methylene chloride, acetone, 2-Butanone and styrene attributable to the pit, and is a "hazardous substance" as defined by Section 101(14) of CERCLA, 42 U.S.C. Section 9601(14). For the purpose of removal activity 4 in this Order, tar will be defined as visible free tar. Visible free tar is defined as tar which is free of soil including soft and hard tar.

6. Low flash substances on the site, the presence of hazardous substances including benzene, and the actual or threatened release to drinking water constitutes an actual or threatened "release" as that term is defined in Section 101(22) of CERCLA, 42 U.S.C. Section 9601(22).

7. The actual or threatened release of hazardous substances from the Facility may present an imminent and substantial endangerment to the public health, welfare, or the environment.

8. The actions required by this Order, if properly performed, are consistent with the National Contingency Plan (NCP), 40 CFR Part 300, as amended, and CERCLA, and are reasonable and necessary to protect the public health, welfare and the environment.

9. The conditions present at the Facility constitute a threat to public health or welfare or the environment based upon consideration of the factors set forth in the NCP, Section 300.415(b)(2). These factors include, but are not limited to, the following:

a. **actual or potential exposure to hazardous substances by nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;**

This factor is present at the Facility due to the existence of elevated levels of organic compounds, including benzene, in the tar. Until September 28, 1990, access was unrestricted. Migratory water fowl, including blue herons, have died as a result of becoming trapped in the tar. Despite the existence of a fence at the site, other forms of wildlife may use the pond as a drinking water source. Vegetation surrounding the pit has been stressed.

b. **actual or potential contamination of drinking water supplies or sensitive ecosystems;**

This potential for contamination is present at the Facility due to the existence of groundwater at approximately three and one half feet beneath the surface of the pit. The suspected depth of the pit is at least three feet. Groundwater flow is toward Lake Michigan, a drinking water source. Organics contained in the pit may leach into the groundwater and subsequently migrate into Lake Michigan.

c. **weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released;**

This factor is present at the Facility due to the potential existence of excessive heat in the summer which has caused the tar to migrate to the soil surface. This migration combined with excessive heat create the potential for the release of volatile organic contaminants into the air.

d. **threat of fire or explosion;**

This factor is present at the Facility due to the existence of the low flashpoint of 72 degrees Fahrenheit tar on the site. A Waukegan Fire Department report indicates that the pit caught fire in July of 1988. The report describes a great volume of black smoke emanating from the fire. IEPA, responded to the fire and collected tar samples which had a flash point of 60 degrees Fahrenheit.

## ORDER

Based upon the foregoing Findings and Determinations, and pursuant to Section 106(a) of CERCLA, 42 U.S.C. Section 9606(a), it is hereby Ordered that Respondents undertake the following actions at the Facility:

1. On or before September 12, 1991, the Respondents shall submit to U.S. EPA for approval, a Work Plan (WP1) for the removal activities ordered as set forth in Paragraph 4 below. WP1 shall provide a concise description of the activities to be conducted to comply with the requirements of this Order as well as a schedule for implementation. WP1 shall also describe alternatives for storing the free tar on site until disposal. WP1 shall be reviewed by U.S. EPA, which may approve, disapprove, require revisions, or modify WP1 including the requirement for storage of free tar on the site. Respondents shall implement WP1 as finally approved by U.S. EPA.

Once approved, the Work Plan shall be deemed to be incorporated into and made a fully enforceable part of this Order. WP1 shall include a separate outline for the Extent of Contamination (EOC) Study including a schedule for submittal of the EOC Study Work Plan (WP2), and initiation and completion of the EOC Study as outlined in Paragraph 5 below.

2. WP1 and WP2 shall contain a site safety and health plan, a sampling and analysis plan, and a schedule of the work to be performed. The site safety and health plan shall be prepared in accordance with the Occupational Safety and Health Administration (OSHA) regulations applicable to Hazardous Waste Operations and Emergency Response, 29 CFR Part 1910. WP1 and WP2 and other submitted documents shall demonstrate that the Respondent can properly conduct the actions required by this Order.

3. Respondents shall retain a contractor qualified to undertake and complete the requirements of this Order, and shall notify U.S. EPA of the name of such contractor within five (5) business days of the effective date of this Order. U.S. EPA retains the right to disapprove of any, or all, of the contractors and/or subcontractors retained by the Respondents. In the event U.S. EPA disapproves of a selected contractor, Respondents shall retain a different contractor to perform the work, and such selection shall be made within two (2) business days following U.S. EPA's disapproval.

4. Within seven (7) calendar days after U.S. EPA approval of WP1 as discussed in Paragraph 1,, Respondents shall implement the Work Plan as approved or modified by U.S. EPA. Failure of the Respondents to properly implement all aspects of WP1 shall be deemed to be a violation of the terms of this Order. WP1 shall require the Respondents to perform, and complete within ninety (90) calendar days after approval, at a minimum, the following removal activity:

- Remove all visible free tar. Within three (3) business days of the completion of the removal of the visible free tar, the OSC or her designated alternate will inspect the site and determine compliance with the requirement.

5. Respondents shall also conduct an extent of contamination study in accordance with the schedule in the U.S. EPA approved Work Plans. The Respondents shall accurately determine the extent of contamination of the tar, as defined in paragraph 5 of the determinations section, from the tar pit to the surrounding property, including soil and groundwater media.

6. All materials containing hazardous substances, pollutants or contaminants removed pursuant to this Order shall be disposed of or treated at a facility approved by the On-Scene Coordinator and in accordance with the Resource Conservation and Recovery Act of 1976 (RCRA), 42 U.S.C. Section 6901, et seq., as amended, the U.S. EPA Revised Off-Site Policy, and all other applicable Federal, State, and local requirements.

7. On or before the effective date of this Order, the Respondents shall designate a Project Coordinator. To the greatest extent possible, the Project Coordinator shall be present on site or readily available during site work. The U.S. EPA has designated Cindy Nolan of the Emergency and Enforcement Response Branch, Response Section II, as its On-Scene Coordinator. The On-Scene Coordinator and the Project Coordinator shall be responsible for overseeing the implementation of this Order. To the maximum extent possible, communication between the Respondents and the U.S. EPA, and all documents, reports and approvals, and all other correspondence concerning the activities relevant to this Order, shall be directed through the On-Scene Coordinator and the Project Coordinator.

8. The U.S. EPA and the Respondents shall each have the right to change their respective designated On-Scene Coordinator or Project Coordinator. U.S. EPA shall notify the Respondents, and Respondents shall notify U.S. EPA, as early as possible before such a change is made, but in no case less than 24 hours before such a change. Notification may initially be verbal, but shall promptly be reduced to writing.

9. The U.S. EPA On-Scene Coordinator shall have the authority vested in an On-Scene Coordinator by the NCP, 40 CFR Part 300, as amended, including the authority to halt, conduct, or direct any work required by this Order, or to direct any other response action undertaken by U.S. EPA or the Respondents at the facility.

10. No extensions to the above time frames shall be granted without sufficient cause. All extensions must be requested, in writing, and shall not be deemed accepted unless approved, in writing, by U.S. EPA.

11. This Order and all instructions by the U.S. EPA On-Scene Coordinator or her designated alternate that are consistent with the National Contingency Plan and this Order shall be binding upon the Respondents.

12. To the extent that the Facility or other areas where work under this Order is to be performed is owned by, or in possession of someone other than the Respondents, Respondents shall obtain all necessary access agreements. In the event that Respondents are unable to obtain such agreements, Respondents shall immediately notify U.S. EPA. U.S. EPA may then assist Respondents in gaining access, to the extent necessary to effectuate the response activities described herein, using such means as it deems appropriate.

13. Respondents shall provide access to the Facility to U.S. EPA employees, contractors, agents, and consultants at reasonable times, and shall permit such persons to be present and move freely in the area in order to conduct inspections, including taking photographs and videotapes of the Facility, to do cleanup/stabilization work, to take samples to monitor the work under this Order, and to conduct other activities which the U.S. EPA determines to be necessary.

14. Nothing contained herein shall be construed to prevent U.S. EPA from seeking legal or equitable relief to enforce the terms of this Order, or from taking other legal or equitable action as it deems appropriate and necessary, or from requiring the Respondents in the future to perform additional activities pursuant to CERCLA, 42 U.S.C. Section 9601 et seq., or any other applicable law.

15. This Order shall be effective seven (7) calendar days following issuance.

16. On or before seven (7) calendar days of the effective date of this Order, Respondents shall provide notice, verbally or in writing, to U.S. EPA stating their intention to comply with the terms of this Order. Verbal notification must be followed in writing within three (3) business days. In the event any Respondents fail to provide such notice, those Respondents shall be deemed not to have complied with the terms of this Order.

17. Copies of all records and files relating to hazardous substances found on the site shall be retained for six years following completion of the activities required by this Order and shall be made available to the U.S. EPA prior to the termination of the removal activities under this Order.

18. Respondents shall provide a written bi-weekly progress memorandum to the On-Scene Coordinator regarding the actions and activities undertaken under this Order. At a minimum, these progress memorandum shall describe the actions that have been taken to comply with this Order, including all results of sampling and tests received or prepared by the Respondents and shall describe all significant work items planned for the next month.

19. The Respondents shall submit a final report summarizing the actions taken to comply with this Order. The report shall contain, at a minimum: identification of the facility, a description of the locations and types of hazardous substances encountered at the facility upon the initiation of work performed under this Order, a chronology and description of the actions performed (including both the organization and implementation of response activities), a listing of the resources committed to perform the work under this Order (including financial, personnel, mechanical and technological resources), identification of all items that affected the actions performed under the Order and discussion of how all problems were resolved, a listing of quantities and types of materials removed, a discussion of removal and disposal options considered for those materials, a listing of the ultimate destination of those materials, and a presentation of the analytical results of all sampling and analyses performed and accompanying appendices containing all relevant paperwork accrued during the action (e.g., manifests, invoices, bills, contracts, permits). The final report shall also include an affidavit from a person who supervised or directed the preparation of that report. The affidavit shall certify under penalty of law that based on personal knowledge and appropriate inquiries of all other persons involved in preparation of the report, the information submitted is true, accurate and complete to the best of the affiant's knowledge and belief. The report shall be submitted within thirty (30) calendar days of completion of the work required by the U.S. EPA.

20. All notices, reports, memorandums and requests for extensions submitted under terms of this Order shall be sent by certified mail, return receipt requested, and addressed to the following:

one copy — Cindy Nolan
On-Scene Coordinator
U.S. EPA (5HS-12)
230 South Dearborn Street
Chicago, Illinois 60604

one copy Sean Mulroney
Assistant Regional Counsel
U.S. EPA (5CS-TUB-3)
230 South Dearborn Street
Chicago, Illinois 60604

21. If any provision of this Order is deemed invalid or unenforceable, the balance of this Order shall remain in full force and effect.

## ACCESS TO ADMINISTRATIVE RECORD

The Administrative Record supporting the above Determinations and Findings is available for review on normal business days between the hours of 9:00 a.m. and 5:00 p.m. in the Office of Regional Counsel, United States Environmental Protection Agency, Region V, 111 W. Jackson Blvd., Third Floor, Chicago, Illinois. Please contact Sean Mulroney, Assistant Regional Counsel, at (312) 886-7150 to review the Administrative Record. An index of the Administrative Record is attached hereto.

## OPPORTUNITY TO CONFER

With respect to the actions required above, Respondents may within five (5) business days after issuance of this Order, request a conference with the U.S. EPA. Any such conference shall be held within fourteen (14) calendar days from the date of request unless extended by mutual agreement of the parties. At any conference held pursuant to the request, Respondents may appear in person, or be represented by an attorney or other representative. If any Respondent desires such a conference, the Respondent shall contact Sean Mulroney, Assistant Regional Counsel, at (312) 886-7150. If such a conference is held, Respondents may present any evidence, arguments or comments regarding this Order, its applicability, any factual determinations upon which the Order is based, the appropriateness of any action which Respondents are ordered to take, or any other relevant and material issue. Any such evidence, arguments or comments should be reduced to writing and submitted to U.S. EPA within seven (7) calendar days following the conference. If no conference is requested, any such evidence, arguments or comments must be submitted in writing within seven (7) calendar days following the receipt of this Order. Any such writing should be directed to Sean Mulroney, Assistant Regional Counsel, at the address cited above.

Respondents are hereby placed on notice that U.S. EPA will take any action which may be necessary in the opinion of U.S. EPA for the protection of public health and welfare and the environment, and Respondents may be liable under Section 107(a) of CERCLA, 42 U.S.C. Section 9607(a), for the costs of those government actions.

## PENALTIES FOR NONCOMPLIANCE

Respondents are advised pursuant to Section 106(b) of CERCLA, 42 U.S.C. Section 9606(b), that willful violation or subsequent failure or refusal to comply with this Order, or any portion thereof, may subject the Respondents to a civil penalty of no more than $25,000 per day for each day in which such violation occurs, or such failure to comply continues. Failure to comply with this Order, or any portion thereof, without sufficient cause may also subject the Respondents to liability for punitive damages in an amount three times the amount of any cost incurred by the government as a result of the failure of Respondents to take proper action, pursuant to Section 107(c)(3) of CERCLA, 42 U.S.C. Section 9607(c)(3).

By: David A. Ullrich

David A. Ullrich, Director
Waste Management Division
United States Environmental
Protection Agency
Region V

September 4, 1991

## RECIPIENTS OF 106 UNILATERAL ORDER

North Shore Sanitary District
c/o Murray Conzelman
P.O. Box 750
Gurnee, Illinois 60031

North Shore Sanitary District
c/o Melissa Wynne
Gardner, Carton & Douglas
Quaker Tower
Suite 3400
321 North Clark Street
Chicago, Illinois 60610-4795

North Shore Gas Company
c/o Bell Boyd & Lloyd
Attn: Russ Selman
3 First National Plaza
Suite 2900
Chicago, Illinois 60602

Elgin, Joliet and Eastern Railway Company
c/o Alice C. Saylor, General Attorney
P.O Box 68
135 Jamison Lane
Monroeville, Pennsylvania 15146

Elgin Joliet and Eastern Railway Company
c/o Andrew Stewart Armstrong
Director Real Estate and Industrial Development
P.O. Box 880
Joliet, Illinois 60434

ADMINISTRATIVE RECORD
FOR
WAUKEGAN TAR PITS

Waukegan, Il.

October 12, 1990

| DATE | AUTHOR | RECIPIENT | TITLE/DESCRIPTION | PAGES |
|---|---|---|---|---|
| 07/13/88 | Waukegan Fire Dept. | U.S.EPA | Fire incident report | 2 |
| 07/13/88 | IESDA | U.S.EPA | Incident report | 1 |
| 09/06/90 | Nolan, C., U.S.EPA | File | Trip report | 2 |
| 09/20/90 | Daily Herald newspaper | Community | Newspaper article | 1 |
| 09/20/90 | Southern Illinoisan newspaper | Community | Newspaper article | 1 |
| 09/21/90 | Chicago Tribune | Community | Newspaper article | 1 |
| 09/30/90 | Randolph & Assoc., Inc. | IEPA | Analytical data | 11 |
| 10/01/90 | O'Mara, M., U.S.EPA | Bowden, R., U.S.EPA | Polrep 1 | 1 |
| 10/03/90 | EMS Heritage Labs, Inc. | Weston, Inc. | Analytical data | 18 |
| 10/10/90 | Weston, Inc. | U.S.EPA | Site assessment | 16 |

UPDATE

February 14, 1991

| | | | | |
|---|---|---|---|---|
| 11/23/90 | O'Mara, M., EERB | Bowden, R., EERB | Action Memorandum | 9 |

UPDATE

May 21, 1991

| | | | | |
|---|---|---|---|---|
| 09/30/88 | Rozeboom, M., Randolph & Associates | Doubet, S., IEPA | Soil/Waste Sample | 11 |
| 10/01/90 | Espinoza, E., U.S. Dept. of the Interior | | Criminalistics Examination Report | 1 |
| 03/12/91 | Dalen, L., Barr Engineers Co. | O'Mara, M., U.S. EPA | Initial Investigation Findings | 14 |
| 05/00/91 | Dalen, L., Barr Engineering Co. | | Extent of Contamination Report | 152 |
| 05/07/91 | Wendel, J., E & E | O'Mara, M., U.S. EPA | Sample Analytical | 25 |
| 05/11/91 | Respondents | Ullrich, D., U.S. EPA | Administrative Order By Consent | 19 |
| 00/00/00 | | | TAT Report(Pending) | |

LIABILITY FILE INDEX
WAUKEGAN TAR PIT
WAUKEGAN, ILLINOIS

| DATE | AUTHOR | RECIPIENT | TITLE/DESCRIPTION |
|---|---|---|---|
| 10/19/91 | PRC Environmental Management, Inc. | Carol Graszer | Title Search for Waukegan Tar Pits |

# *Appendix B*

***Free Tar Removal Work Plan (WP1) and Schedule for Submittal, Initiation and Completion of an Extent of Contamination Study Work Plan (WP2)***

# *Revised*

# *Free Tar Removal Work Plan (WP1) and Schedule for Submittal, Initiation and Completion of an Extent of Contamination Study (WP2)*

*IN THE MATTER OF:* *Docket No. V-W-'91-C-115*

*WAUKEGAN TAR PIT SITE*

*Respondents:*

*NORTH SHORE GAS COMPANY*
*ELGIN, JOLIET & EASTERN RAILWAY CO.*
*NORTH SHORE SANITARY DISTRICT*

*October 7, 1991*

**Barr**
Engineering Company
7803 Glenroy Road
Minneapolis, MN 55439
Phone: (612) 830-0555
Fax: (612) 835-0186

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:

October 10, 1991

Mr. Larry D. Dalen
Barr Engineering Company
7803 Glenroy Road
Minneapolis, Minnesota 55439-3723

Re: Waukegan Tar Pit Site
Work Plan (WP1) Approval

Dear Mr. Dalen:

The Revised Free Tar Removal Work Plan (WP1) and Addendum No. 4 to the Site Safety Plan are hereby approved by U.S. EPA with the following modifications:

1. WP1, Page 2, After First Full Paragraph: The following paragraph modifies Section 1.0, Introduction - "This removal action will comply with all state and Federal applicable or relevant and appropriate requirements (ARARs) to the extent practicable."

2. WP1, Page 7, Second Full Paragraph: This paragraph is modified with addition of the following sentence - "Any alternate disposal method proposed must be approved by the U.S. EPA before being implemented."

3. WP1, Page 8, Last Paragraph: This paragraph is modified by deletion of the following sentence - "These materials may be washed and staged adjacent to the pit in order to be managed with other debris encountered in future actions at the site." The following sentence shall replace the deleted sentence - "Some of these materials may be decontaminated and disposed as non-hazardous solid waste."

Please attach these modifications to WP1 and ensure all subcontractors are aware of them.

Sincerely,

Cindy Nolan
Cindy Nolan
On-Scene Coordinator

for Paul R. Steadman
On-Scene Coordinator

cc: Patrick Doyle, North Shore Gas
Russ Selman, Bell, Boyd & Lloyd
Sean Mulroney, U.S. EPA ORC

FREE TAR REMOVAL WORK PLAN (WP1)

WAUKEGAN TAR PIT SITE

WAUKEGAN, ILLINOIS

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FREE TAR REMOVAL WORK PLAN (WP1)

WAUKEGAN TAR PIT SITE

WAUKEGAN, ILLINOIS

## 1.0 INTRODUCTION

This work plan has been prepared pursuant to the September 5, 1991 Unilateral Administrative Order (UAO) issued by the United States Environmental Protection Agency (U.S. EPA) to the respondents for the Waukegan Tar Pit Site (WTPS). The location of the site and the immediate vicinity of the site are shown on Figures 1 and 2.

This work plan describes the work required by the September 5 UAO including: (1) methods that will be used to remove the tar from the tar pit and to describe the methods of handling, transporting, and processing of the tar; (2) methods for dealing with the liquid waste streams that may be generated during the work are also described; (3) the operating conditions that will be required at the site including the site safety and security requirements; and (4) the outline and schedule for the work plan submittal, initiation, and completion of the "Extent of Contamination Study" (WP2).

The tar to be removed in conformance with this work plan is the visible free tar attributable to the tar pit. The visible free tar is defined as tar which is free of soil and includes soft and hard tar. Material that is outside the scope of this work plan includes soil contaminated with tar or soil and debris coated with tar, and these materials will generally not be addressed during this work. Free tar will be distinguished from other material by visual observation.

The general characteristics of the tar to be removed are listed in Table 1. The tar has high heat of combustion, 15,000 BTU/lb. As would be expected of a hydrocarbon-based high BTU-content liquid material, when tested under the Toxicity Characteristic Leaching Procedure (TCLP), the benzene concentration in the leachate from a sample of the tar pit tar exceeded the regulatory threshold. Table 1 shows the detected analytes and their regulatory thresholds for the TCLP analysis. The U.S. EPA considers the tar a D018 in accordance with RCRA because of the TCLP result for benzene.

## 2.0 DISPOSAL SCENARIOS

This section outlines the disposal scenarios that were considered to be viable for the tar from the WTPS. The most favorable scenario is to dispose of the material in a fuel blending program. Other scenarios that were considered include incineration, recycling, and land disposal.

### 2.1 Disposal Scenarios

The following disposal scenarios were considered: land disposal, recycling, incineration, and fuel blending. The first three; land disposal, recycling, and incineration, are neither timely nor cost-effective or permitted within RCRA which is required; and therefore, were not selected as the primary method of disposal. Although these options were not chosen as the preferred method of disposal for the majority of the free tar, one or more of these methods may be useful for disposing of portions of the tar found not suitable for fuel blending.

- Land Disposal

  Disposal of the tar in an approved landfill.

- Recycling

  Recycle the tar into other useable products at a properly permitted facility.

- Incineration

  Incineration of the tar at an approved waste incinerator.

Two of the above options (land disposal and incineration) require considerable on-site handling and processing of the tar which would result in an extended removal period and additional cost. Disposal by incineration involves on-site mixing and dilution to reduce the heating value to be compatible with other incinerator waste streams which would be burned concurrently. Incinerator operators normally desire this to be in the range of 5,000 BTU/lb. In addition, tars would need to be loaded into drums or containers on-site for charging the incinerator. Land disposal requirements dictate the mixing of the tar with bulking agents on-site in order to stabilize the waste prior to transport and disposal. In contrast, tar recycling requires minimal on-site processing of the tar materials, however, recycle facilities with the required RCRA permits have not been found.

- Fuel Blending

  Fuel blending of the free tar is believed to be the best scenario for responding to the existing condition of the WTPS. Current planning for fuel blending is based on the capabilities of several on-site removal companies, off-site fuel blenders and off-site cement kilns for burning of the blended fuels. The general process at the fuel blending facilities involves three basic steps: (1) raw tar that meets the specification for the cement kiln would

be loaded directly or blended with other fuels for shipment to the kilns; (2) a portion of the free tar may require processing prior to shipment (processing may include mixing, blending, filtering, centrifuging and so forth; and (3) the free tar solids may be processed as a solid fuel for the cement kilns, solidified for disposal at a hazardous waste landfill or incinerated at a hazardous waste incinerator.

Before proposing a disposal facility to U.S. EPA and before retaining the services of a disposal facility, the Respondents' Project Coordinator will check with the U.S. EPA On-Scene Coordinator (OSC) to ascertain whether the facility is in compliance with RCRA and the CERCLA Off-Site Policy.

The selected off-site disposal company or companies will be identified for review and approval by U.S. EPA.

## 2.2 Storage Contingency

In the event that neither the preferred removal or disposal of the tar can be completed in a timely, cost-effective manner, the tar will be stored in an acceptable manner. The storage facility design will comply with the appropriate substantive technical requirements of RCRA. The details of the storage facility design would be provided to the EPA prior to implementation of this option.

# 3.0 TAR REMOVAL ACTIVITIES

The tar will be removed from the tar pit shown on Figure 3.

## 3.1 Definition of Work Zones

The areas surrounding the tar pit on Figure 3 will be available to the contractor for the staging of equipment for the removal of the tar and any necessary support activities. The contractor will submit a site work plan to show the areas that will be needed for the work activities.

## 3.2 Tar Removal Options

It is anticipated that the tar within the pit will be removed by either vacuum removal, centrifugal or diaphragm pumps or conventional excavation.

### 3.2.1 Vacuum Removal or Pumping

Vacuum removal or pumping would be possible during the months when the tar can be removed from the pit as a liquid: summer, early fall, or late spring when the tar is less viscous. Vacuum removal or pumping in the colder months may require warming the tar in the pit prior to removal. Vacuum pumps would transport the tar from the pit into railcars or tanker trucks.

From a practical standpoint, vacuum removal or pumping requires that the tar removal equipment be located near the tar source. It is anticipated that the equipment used by contractors for this work would be capable of pumping the tar a distance of up to 200 feet.

### 3.2.2 Excavation

Conventional excavation of the tar would be used when the tar would be in a semisolid state or nonpumpable state. Conventional excavation may be used during the summer months for nonpumpable tar. If the tars are excavated in a semisolid state, they would need to be heated on-site and pumped to the

transportation vehicles. Alternatively, these materials could be loaded into the vehicle using a conveyor or other loading equipment. It is anticipated that after heating the materials could be removed from the vehicle in the normal manner. The tar removal by conventional excavation means is less desirable than vacuum removal or pumping because of the increased on-site handling.

### 3.3 Water Management

Water on the surface of the pond may need to be removed prior to the removal of the tar. In addition, groundwater or surface water may flow into the pit during the tar removal activities and may have to be removed.

Permission to dispose of some or all of the water from the tar pit work is being sought from the North Shore Sanitary District (NSSD). It is expected that the surface water will be removed prior to removing the tar. A sump would be lowered into the tar to decant the existing water from the top of the tar. The water that collected in this sump would be pumped through a temporary oil-water separator and other necessary pretreatment prior to being disposed at a treatment facility. The pretreated water may be discharged to the sanitary sewer at a manhole located in the northeast corner of the site. The sanitary sewer leads to the NSSD's Waukegan wastewater treatment facility, located directly to the east of the site. The permission of the NSSD will be obtained prior to the discharge of any water to the NSSD's facility. Samples of the water to be discharged would be collected and the results of the water analysis approved by the NSSD and submitted to the U.S. EPA prior to discharge to the wastewater facility. Oil recovered from the oil-water separator would be managed with the free tar from the site.

In the event that groundwater enters the pit during the tar removal activities and hampers tar removal, it will also be directed to the oil-water separator and associated treatment train prior to discharge to the sanitary sewer.

Alternate disposal methods for the surface water and groundwater are being considered. Disposal of the water with the tar may be feasible for some fuel blending facilities. Options to leave the treated water on-site are also under consideration.

### 3.4 Pit Closure

After or during removal of the tar from the pit, the bottom of the pit will be lined to minimize the impact to the environment of any contaminated soil or groundwater.

The pit liner will be constructed using 60 mil high density polyethylene (HDPE). The compatibility of HDPE with PAHs and benzene has been evaluated. HDPE is an appropriate synthetic liner material for this application. HDPE is the synthetic liner material selected for most hazardous waste landfills and containment applications. The liner will be placed on the bottom of the pit. Disruption to the pit bottom will be minimized. Objects that may immediately impact the integrity of the pit liner will be covered or removed from the pit bottom. An anchor trench/berm will be placed around the pit to secure the liner and prevent surface water from entering the pit.

## 4.0 TRANSPORTATION OF TAR MATERIAL

Transportation of the tar from the site will be in either railcars or tank trucks. The Elgin, Joliet, and Eastern Railway Co. (EJ&E) has agreed to

allow the use of the western railspur located immediately adjacent to the site for the spotting of railcars for loading of the tar for shipment.

## 5.0 REMOVAL WORK SUPPORT ACTIVITIES

### 5.1 Equipment Decontamination

Equipment brought to the site to pump or excavate the tar materials will be decontaminated prior to leaving the site. Any tar, oil or wastewater generated during equipment decontamination will be collected, processed through the oil-water separator and disposed of in the same manner as the surface water and groundwater. The tar/oil fraction from the oil-water separator and the water from any on-site decontamination of the oil-water separator will be handled and disposed of with the free tar.

### 5.2 Solid Waste Disposal

Solid wastes generated during the tar removal activities may include discarded personal protective clothing and miscellaneous materials used during the work. The solid wastes generated at the site will be separated into those associated with the tar and those not associated with the tar. Solid wastes generated at the site that have not been associated with the tar, or which have been cleaned, will be disposed of as refuse or demolition debris in accordance with the receiving facility's requirements. Solid wastes that are associated with the tar, such as concrete, bricks, stones, and debris found in the tar pits, will be processed on-site. These materials may be washed and staged adjacent to the pit in order to be managed with other debris encountered in future actions at the site. Some of these materials may be disposed of with the nonpumpable tars. Disposal may include incineration, disposal at a secure landfill, or disposal at a hazardous waste

landfill. The specific management of each solid waste stream will be subject to the prior approval of the U.S. EPA OSC.

## 5.3 Site Safety and Security

### 5.3.1 Site Safety

All work at the site will be completed in accordance with the safety requirements for hazardous waste sites as outlined in 29 CFR Part 1910. The representatives of the respondents at the site will observe the progress of the removal activities in accordance with a Project Safety Plan developed for this work. The contractor that performs work directly related to the handling and removal of the tar materials will be required to prepare a project safety plan for the work. This plan will be submitted to the U.S. EPA prior to contractor mobilization. All personnel performing the removal action shall be able to demonstrate that they have and are in current compliance with appropriate 29 CFR 1910 training requirement.

### 5.3.2 Air Monitoring

Because of the industrial setting of the WTPS, off-site ambient air quality monitoring will not be required. On-site monitoring of the site to ensure that workers are not over-exposed to any of the specific chemicals contained in the tar materials will be completed in accordance with the monitoring requirements of the project safety plans for the site.

### 5.3.3 Site Security

The site is currently secured by a 6-foot high chain link fence. This security will remain in place. In the event that the fence must be temporarily relocated during the loading of materials, or the construction of

working zones, a representative of the respondents or the contractor completing the work will be assigned to prevent access to the site by unauthorized persons. During tar removal operations, additional off-hours security will be provided at the site.

## 6.0 REMOVAL SCHEDULE

A schedule for the completion of the work described in this work plan is shown on Figure 4. The main tasks that will be completed will be:

- Work Plan
  - PRP submitted Work Plan, September 12, 1991
  - U.S. EPA reviewed Work Plan (Comment letter dated September 30, 1991)
  - PRP submitted Site Safety Plan, September 12, and Addendum No. 4 October 7, 1991
  - U.S. EPA review and approval of Work Plan

- Evaluation of Proposals and selection of a contractor
  - U.S. EPA review and approval of on-site contractor Site Safety Plan.

- Performance of site work including:
  - Mobilization and establishment of working zones
  - Removal of tar pit water
  - Removal of tar
  - Loading of tar for shipment
  - Closure of the pit
  - Decontamination and demobilization

- Transportation of tar materials to the disposal facilities

## 7.0 SCHEDULE FOR WORK PLAN SUBMITTAL, INITIATION, AND COMPLETION OF THE "EXTENT OF CONTAMINATION (EOC) STUDY" (WP2)

### 7.1 Purpose and Scope of Investigation

The purpose of the investigation is to accurately define the extent of tar as defined in Paragraph 5 of the determinations section of the unilateral Administrative Order from the tar pit to the surrounding property, including soil and groundwater media. The "Extent of Contamination Study Work Plan" (WP2) will define location of additional soil borings, soil sampling, and soil analyses. Work Plan (WP2) will also define the location of groundwater monitoring wells to be installed and groundwater samples to be collected and analyzed. These additional tasks may require modification of the Quality Assurance/Quality Control Plan and the Site Safety Plan which was submitted in conformance with the March 11, 1991 Administrative Order.

### 7.2 Description of Tasks

The following is an outline of tasks to be completed for the "Extent of Contamination Study" (WP2) at the Waukegan Tar Pit Site:

Task 1: Preparation and Submittal of "Extent of Contamination Study Work Plan" (WP2)

- Task 1.A: Identification of Number and Location of Soil Borings and Wells
- Task 1.B: Description of Drilling and Sampling Methodology
- Task 1.C: Description of Decontamination Procedures
- Task 1.D: Preparation of Technical Specifications for Well Construction and Development
- Task 1.E: Preparation of QA/QC Plan
- Task 1.F: Preparation of Site Safety Plan

Task 2: Initiate and Complete Work Plan (WP2)

Task 2.A: Installation of Soil Borings and Soil Sampling

Task 2.B: Analysis of Soil Samples

Task 2.C: Installation of Monitoring Wells

Task 2.D: Groundwater Sampling and Analysis

Task 2.E: Evaluation of Investigation Data

Task 2.F: Preparation of "Extent of Contamination Study" (WP2)

## 7.3 Schedule of Tasks

The proposed schedule for completion of tasks for the "Extent of Contamination Study" is in Figure 5. The Work Plan (WP2) would be submitted by November 22, 1991. The actual on-site activities will not begin until the tar removal has been completed under (WP1) due to access and safety considerations at the site.

TABLE 1

TAR CHARACTERISTICS
WAUKEGAN TAR PIT SITE
(MARCH 27, 1991)

General Characteristics

| | (Sample TS-3) |
|---|---|
| Heat of combustion | 15,000 BTU/lb |
| Density @ 77°F | 1.185 |
| Flash point | >200°F |
| Ash (by weight) | 16% |
| pH | 7.9 |
| Cyanide content | <0.001 mg/kg |
| Sulfide content | <0.05 mg/kg |

Polynuclear Aromatic Hydrocarbons

| | |
|---|---|
| Total PAHs | 120,000 mg/kg (12%) |
| Naphthalene (highest single compound | 32,000 mg/kg (3.2% |

Volatile Organic Compounds

| | |
|---|---|
| Benzene | 79 mg/kg |
| Ethyl Benzene | 65 mg/kg |
| Toluene | 130 mg/kg |
| Xylene | 130 mg/kg |

TCLP Analysis (Sample TS-3)

| Detected Analyte | Concentration (mg/L) | Regulatory Threshold (mg/L) |
|---|---|---|
| Benzene | 14 | 0.5 |
| Cresol (Total) | 1.8 | 200 |

13\49\004\TARREM.RPT\YMH

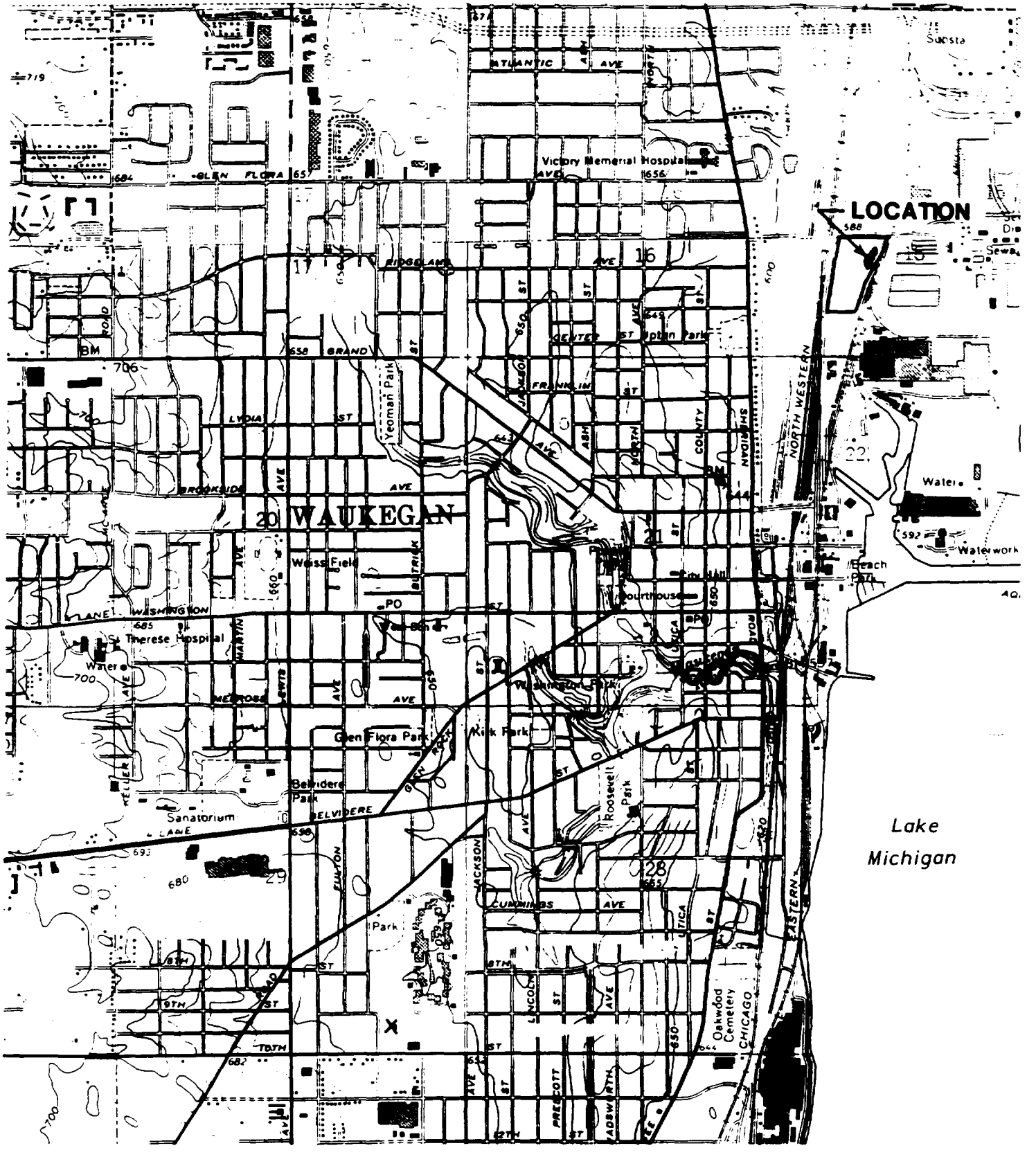
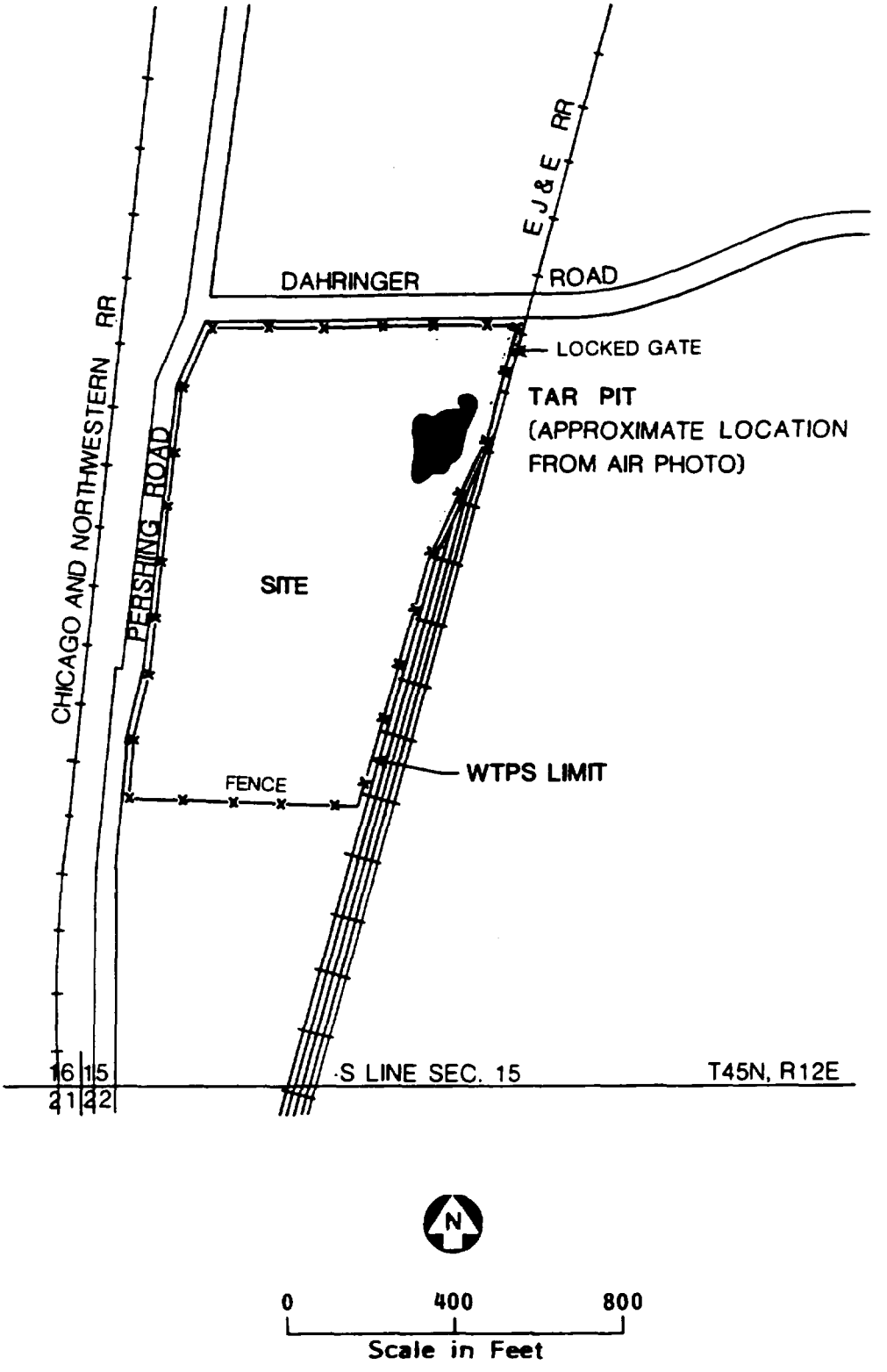



Figure 1

Waukegan Tar Pit Site
LOCATION MAP




—x—x— Chain Link Fence
(Approximate Location)

Figure 2

Waukegan Tar Pit Site
MAP OF IMMEDIATE VICINITY AND TAR PIT

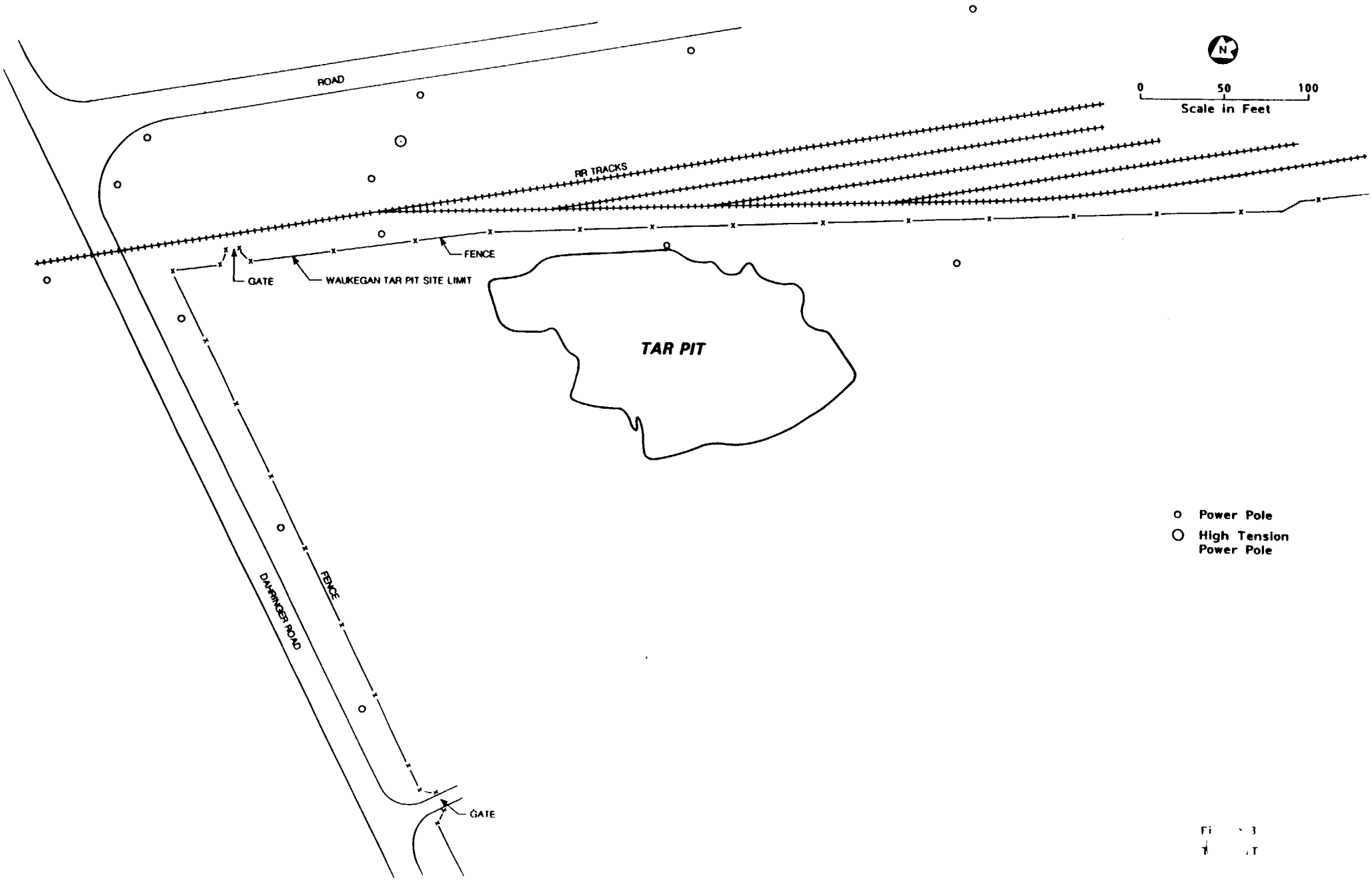
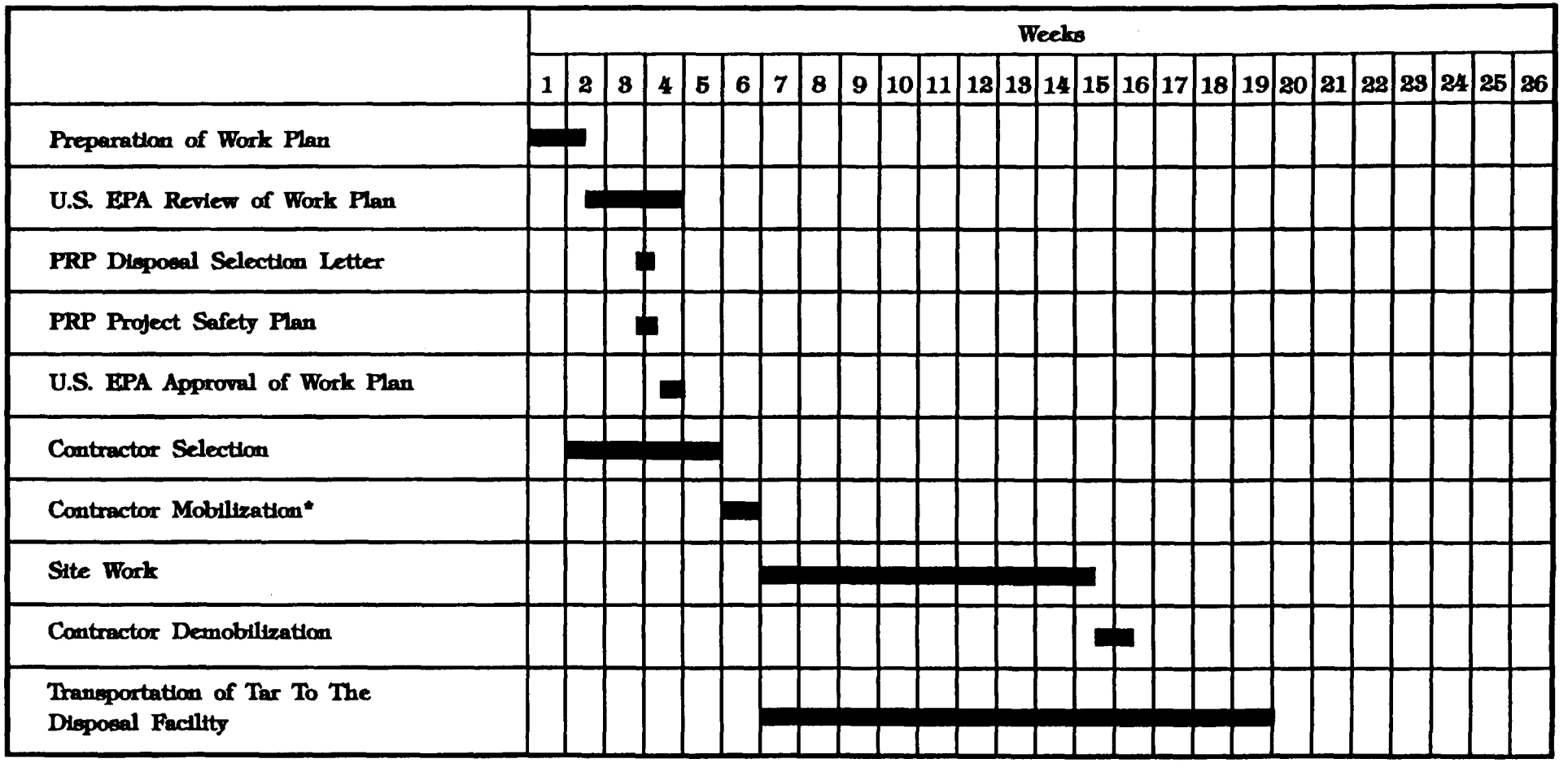

ROAD
RR TRACKS
FENCE
GATE
WAUKEGAN TAR PIT SITE LIMIT
TAR PIT
FENCE
DANFINGER ROAD
GATE
N
0
50
100
Scale in Feet
Power Pole
High Tension Power Pole

Figure 4

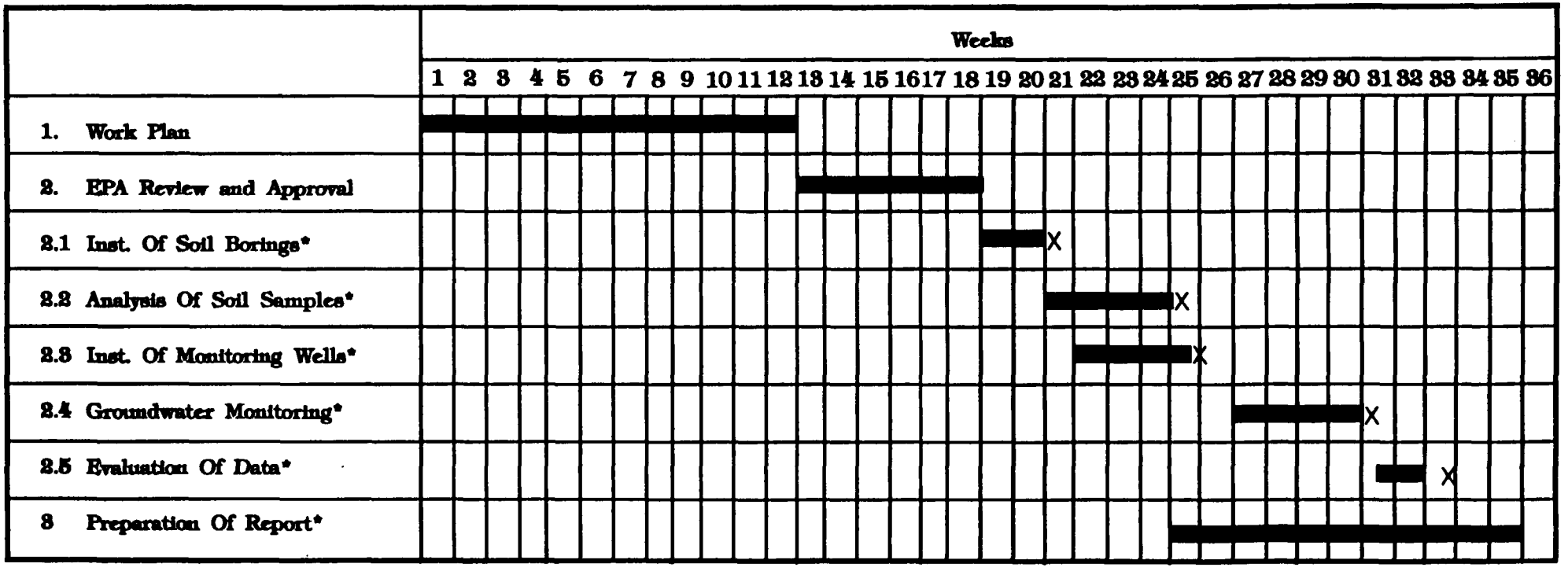
TAR REMOVAL SCHEDULE
WAUKEGAN TAR PIT SITE




* Depends On EPA Approval Of Disposal and On-site Contractors and On-Site Contractor Site Safety Plan.

Figure 5

SCHEDULE FOR EXTENT OF CONTAMINATION STUDY (WP2)




Task In Progress

X Draft Or Final Task Completion

> Task Progress Ongoing

* Begins Only After Tar Removed Under (WP1) is Completed Because Of Site Conjestion

# *Appendix C*

## *Site Safety Plan*

# *PROJECT SAFETY PLAN*

## *Extent of Contamination Study*
## *Waukegan Tar Pit Site*

*Prepared for North Shore Gas Company*
*Elgin, Joliet and Eastern Railway Company*
*North Shore Sanitary District*

*November 1991*

# *PROJECT SAFETY PLAN*

## *Extent of Contamination Study*
## *Waukegan Tar Pit Site*

***Prepared for North Shore Gas Company***
***Elgin, Joliet and Eastern Railway Company***
***North Shore Sanitary District***

***November 1991***

**Barr**
Engineering Company
*8300 Norman Center Drive*
*Minneapolis, MN 55437*
*Phone: (612) 832-2600*
*Fax: (612) 835-0186*

# SAFETY PLAN ADDENDUM No. 4

## WAUKEGAN TAR PIT SITE

October 7, 1991

The following changes/comments pertain to the indicated sections of the Barr Engineering Site Safety Plan for the Waukegan Tar Pit Site:

SITE SAFETY PLAN ADDENDUM No. 1

Section C, paragraph 3: Maureen O'Mara's name should be deleted as an EPA On-Scene Coordinator, and the following names should be added:

Cindy Nolan

Paul Steadman

Section C, paragraph 4: Maureen O'Mara's telephone number should be deleted, and the following numbers should be added for Nolan and Steadman:

312/886-6246

312/353-7615

SITE SAFETY PLAN ADDENDUM No. 2

Paragraph 2, Table 2 project tasks were performed in Level D after monitoring indicated that there was not an increased risk of exposure to volatile contaminants. Future tasks involving intrusive work on the site will commence in Level C and, if monitoring results indicate reduced exposure risks, personal protection will be downgraded to Level D.

The MSA Ultra-Twin respirator used in conjunction with the MSA GMC-H filter/cartridge provides respiratory protection against organic vapors, acid

gases and particulates. The maximum use concentration for this respirator combination is determined by multiplying its protection factor of 50 by the most stringent workplace standard of a contaminant which might be encountered (i.e., benzene) with a permissible exposure limit (PEL) of 1 ppm. This respirator combination can therefore be used up to an airborne concentration of 50 ppm benzene.

The GMC-H filter/cartridge combination is approved to be used in total organic vapor concentrations of less than 1,000 ppm. When benzene was specifically tested by MSA with a GMA cartridge, breakthrough occurred in 73 minutes for concentrations of 1,000 ppm and in 146 minutes for concentrations of 500 ppm benzene.

Based on this information, all Barr personnel are advised that this respirator combination may be safely used at benzene concentrations of 50 ppm or less, but that prudent practice would entail leaving the work area at levels of 25 ppm benzene, determined with a detector tube, or 100 ppm total organic vapors to reassess the work situation.

SITE SAFETY PLAN ADDENDUM No. 3

Sampling operations have been performed in Level D after monitoring indicated that there was not an increased risk of exposure; operations will, however, heretofore commence in Level C with a downgrade to Level D if monitoring indicates reduced or nonexistent risks.

BARR ENGINEERING CO - PROJECT SAFETY PLAN

Paragraph 3, Page 4, Site Facilities: It should be added that a portable toilet and an office with a telephone will be available for use on the site.

To Paragraph H, Page 11, Equipment Calibration: Monitoring equipment will be calibrated daily, rather than weekly as stated.

Table 2, Project Tasks: Based on monitoring results, depth sampling has been performed in Level D. All future intrusive work will be performed in Level C until monitoring indicates that a downgrade to Level D will afford the appropriate level of personal protection.

Table 3, Personal Protection Levels: A revised and upgraded personal protection table is provided in the following section on safety procedures for the free tar removal phase.

## SAFETY PROCEDURES FOR FREE TAR REMOVAL

Table A-1 lists the tasks to be performed in the tar removal process, an analysis of exposure potential and the protective levels assigned each task.

Table A-1

Project Tasks

| Task | Task Description | Protection Level | Risk Analysis |
|---|---|---|---|
| Site Reconnaissance | Walking around site | C1/D1[1] | Low potential for inhalation and skin exposure |
| Water Sampling | Collection of water sample from pumped water | C2/D2[1] | Potential for inhalation and skin exposure to contaminated water |
| Construction Observation | Observation of:<br>▪ vacuum removal ^[ of tar | C2/D2[1] | Potential for inhalation exposure to airborne contaminants |
| | ▪ excavation and heating of tar | C2/D2[1] | |
| | ▪ pumping of water from pit | C2/D2[1] | |
| | ▪ pit closure | C2/D2[1] | |

[1]A downgrade to Level D may be made when monitoring indicates organic vapor concentrations of less than 5 ppm for 10 minutes. Observation of excavation/heating will be made from a distance of not less than 50 feet, upwind.

Table A-2 describes the clothing and equipment required for the protection levels specified in Table A-1.

TABLE A-2

PERSONAL PROTECTION LEVELS

R = Required O = Optional -- = Not Required

| | D1 | D2 | C1 | C2 |
|---|---|---|---|---|
| **GENERAL SAFETY EQUIPMENT** | | | | |
| Hard Hat | R | R | R | R |
| Safety Glasses | R | R | R | R |
| Chemical Goggles/Face Shield | O | O | -- | -- |
| Hearing Protection | O | O | O | O |
| **BOOTS** | | | | |
| Steel Toe Boots | R | -- | R | - |
| Chemical Resistant Steel Toe Boots | O | R | O | R |
| Boot Covers | R | R | R | R |
| **CLOTHING** | | | | |
| Cotton Coveralls/Kleengard | O | O | -- | O |
| Tyvek - 1 Piece | R | -- | R | -- |
| Poly-Coated Tyvek 1-Piece/Hooded | O | R | O | R |
| Saranex Tyvek 1-Piece/Hooded | -- | -- | -- | -- |
| **RESPIRATORS** | | | | |
| Full Face - Filters/Cartridges | -- | -- | R | R |
| Full Face - Canister | -- | -- | -- | -- |
| ELSA | O | O | O | O |
| SCBA/Supplied Air | -- | -- | -- | -- |
| Disposable Respirator | O | O | -- | -- |
| **GLOVES** | | | | |
| Inner Glove | R | R | R | R |
| Outer Glove | O | R | O | R |

SPECIAL CONSIDERATIONS

1. Level C respiratory protection includes MSA full-facepiece with combination GMC-H Cartridges.

2. Other equipment on site should include portable eyewash station and potable bottled water, ifawater is not easily accessible.

3. Any upgrade or downgrade in personal protection level should be documented in the **BARR SAFETY DIARY**

Level C respirator includes full-facepiece with combination GMC-H cartridges. A downgrade may be made to Level D if air monitoring results indicate that exposure to airborne contaminants is unlikely.

Table A-3 describes the air monitoring instrumentation used to determine potential exposure to airborne contaminants. Table A-3 has been amended to include personal exposure monitoring for coal tar pitch volatiles (CTPVs) and benzene.

TABLE A-3

AIR MONITORING INSTRUMENTATION

| Monitoring Equipment | Task | Action Levels | Frequency | Record Data |
|---|---|---|---|---|
| MSA 260/360 or Microgard | Construction Observation<br>Water Sampling | <10% LEL ➡ Level D<br>>10% LEL ➡ Leave area | Continuous | Every hour (indicate range of values) |
| HNU/ Organic Vapor Analyzer/ OVM | Construction Observation<br>Water Sampling | <5ppm ➡ Level D<br>>5ppm (for 10 min.) ➡ Level C<br>>100 ppm ➡ Leave site and reassess | Continuous | Every hour (indicate range of values) |
| Personal Air Sampling Pump (CTPVs and Benzene) | Construction Observation | None. Use data to modify organic vapor action level. | As needed. | Submit samples for analysis. |
| Detector tubes for benzene, toluene, xylene | Construction Observation<br>Water Sampling | None. Use data to modify organic vapor action level | Daily when levels >5ppm | Every hour |
| Thermo-Luminescent Badge | Worn continuously while on site | NA | NA | NA |

Air monitoring will include continuous use of an organic vapor monitor. If levels remain less than 5 ppm for at least 10 minutes, a downgrade may be made to level D (see Table 2 for Level D personal protection requirements). Detector tubes for benzene, toluene and xylene should be used when total organic vapor levels exceed 5 ppm. The benzene action level requiring use of Level C is 0.5 ppm. While working in Level C, if airborne levels of 25 ppm benzene or 100 ppm total organic vapors are encountered, the work area will be left and a reassessment made. Based on previous site monitoring, it is not anticipated that organic vapor levels will require protection beyond Level C.

SAFETY PLAN ADDENDUM No. 3

SAFETY PROCEDURES FOR TAR PIT SAMPLING

WAUKEGAN TAR PIT SITE

August 28, 1991

| Task | Task Description | Risk Analysis | Protection |
|---|---|---|---|
| Sampling from tar pit | Sampling from the edge of the tar pit in 3 locations | Potential for skin and inhalation exposure to tar | D - < 5ppm<br>C - 5 to 100ppm |

Personal protection required for Level D is listed on Table 3 of the Safety Plan. This level of protection is appropriate for all sampling unless the HNU reads 5 ppm for 10 minutes or longer. Detector tubes will be used for detection of benzene, xylene and toluene at HNU readings of 5 ppm or greater. Particular attention should be paid to the heat stress guidelines attached.

The Barr Project Safety Plan should be reviewed for other elements which may pertain to on-site activities.

# Heat Stress Guidelines

## HEAT CRAMPS

Cause: Salt and water loss

Symptoms

- Muscular pain in arms, legs, abdomen
- Faintness, dizziness, exhaustion
- Normal temp, cool, moist skin

Treatment

- Administer sips of Gatorade (1/2 glass every 15 minutes)
- Don't massage cramping muscles (unless it doesn't increase pain)
- Relax person

## HEAT EXHAUSTION

Cause: Large amount of salt/water loss; blood circulation diminishes

Symptoms

- Moist, clammy skin, usually pale
- Dilated pupils
- Weak, dizzy, nauseous, headache
- Normal or low temperatures

Treatment

- Move to cool place
- Apply cold, wet compresses to skin
- Raise feet 8-12 inches
- Administer sips of Gatorade (1/2 glass every 15 minutes)
- Get medical attention

## HEAT STROKE

Cause: Body overheats; temperature rises; no sweating occurs

Symptoms

- No sweating occurs
- Dry, hot skin, usually red
- Constricted pupils
- Hot body temp (105-110 deg. F)
- Strong, rapid pulse
- Unconsciousness may occur
- Muscular twitching

Treatment

- Get emergency medical assistance as soon as possible
- Remove from sunlight
- Wet down body with cool water or rubbing alcohol
- Elevate head/shoulders
- Wrap in wet, cold wrapping
- Once cooled to 102 deg. F, stop cooling measures

## PREVENTION

- Drink plenty of fluids, even if not thirsty -- a glass of water every time you go to the bathroom
- Avoid coffee and alcohol (diuretics)
- Rest frequently in shaded area
- When very hot
  - Air conditioned rest areas should be used
  - Work in early morning and evening hours
- Take off protective clothing during rest breaks
- Acclimatize, if possible (it takes about five days)

SITE SAFETY PLAN ADDENDUM No. 2

WAUKEGAN TAR PIT SITE

March 25, 1991

1. The following should be added to Section B (Scope of Work), Item 1:

   - Sampling methods will involve the observation of soil boring with a soil drilling rig in order to collect soil and tar samples in areas outside the tar pit.

2. Table 2 project tasks should now include:

   - Observation of soil and tar boring advancement. Risks include a potential for skin and inhalation exposures to contaminated soil and tar. Level D protective equipment should be used unless monitoring results indicate the action level has been reached (5 ppm for 10 minutes). Level C protective equipment should be used at that time.

SITE SAFETY PLAN ADDENDUM No. 1

WAUKEGAN TAR PIT SITE

February 25, 1991

1. The following should be added to Section E, Part 1, paragraph 2 (Ice specifications) of the Waukegan Tar Pit Site Safety Plan:

   - If the state of the ice is such that open water exists on the pond, follow the open water procedure given at the end of Section E, Part 1.

2. The following should be added to the end of Section E, Part 1:

   - <u>Open Water Procedure</u>

     If site conditions are such that open water exists on the pond, sampling will be conducted by two people from a 16 foot, flat-bottomed john boat. A third person should remain on-shore. The boat will be stabilized with a cinderblock anchor. The samplers will wear life preservers. The probe which will be used to determine depth will be used to push the boat to the sampling and depth checking locations. Two paddles will be kept in the boat to be used if the probe becomes lost. A 75 foot rope will be kept in the boat to be used in the event both the probe and paddle are lost. The rope will be thrown to the person on shore -- a free end will be kept in the boat, with the bulk of the rope contained in a bag to be thrown to the shore.

   - <u>Decontamination</u>

     The boat will be decontaminated by pond water scooped into buckets. The initial wash may be followed by a solvent rinse and trisodium phosphate.

- <u>Disposal</u>

  The probe will be scraped and left on the site. Any mildly contaminated material will be treated as municipal solid waste to be disposed of in a secured solid waste facility.

3. To Section C an additional key personnel category and names should be added:

   - U.S. EPA On-Scene Coordinator: Maureen O'Mara
     Jennifer Wendell

4. To page A-3 of Appendix A Maureen O'Mara's telephone number should be added:

   - (312) 886-1960

BARR ENGINEERING CO.

PROJECT SAFETY PLAN

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**BARR ENGINEERING CO. - PROJECT SAFETY PLAN**

A. GENERAL INFORMATION

SITE: Waukegan Tar Pit Site PROJECT NUMBER: 13\49-004 JSL 01

LOCATION: Waukegan, Illinois

PLAN PREPARED BY: Mary Dymond DATE: 1/18/91

REVIEWED BY: Karen Stoller DATE: 1/25/91

PROPOSED DATE OF PROJECT: February, 1991

OVERALL HAZARD: Tar pit materials are flammable. Within the fenced area, the tar pit is open and accessible at ground level. Strict compliance with this Project Safety Plan is required.

B. SCOPE OF WORK

The objectives of this study as defined by the AOC (p. 5) are:

1. To conduct an extent of contamination study of the tar pit including sampling and analysis to define the vertical and lateral extent of hazardous substances in the tar pit.

2. To submit a report which shall summarize the study and identify the removal method(s) for the tar pit which must be protective of human health and the environment. (See Addendum 2.)

The study will begin within seven calendar days after written approval of this work plan by the U.S. EPA. The extent of contamination study will be completed within 30 calendar days. The study report will be subitted within 14 days of completion of the extent of contamination study.

## C. SITE ORGANIZATION AND COORDINATION

The following personnel are designated to carry out the stated job functions on site. (Note: One person may carry out more than one job function.)

| | | |
|---|---|---|
| PRINCIPAL-IN-CHARGE | Dean T. Malotky | |
| PROJECT MANAGER | Lawrence D. Dalen | |
| ENGINEER | | |
| HYDROGEOLOGIST | Ray W. Wuolo | |
| GEOLOGIST | | |
| SITE SAFETY OFFICER | Ray W. Wuolo | OR |
| SENIOR SITE SAFETY TRAINED | BARR EMPLOYEE ON SITE | |
| SAMPLERS | Dave Melmer<br>Jim Staberg | |
| U.S. EPA ON-SCENE COORDINATORS | Maureen O'Mara<br>Jennifer Wendell | |

## D. SITE CHARACTERISTICS AND FACILITIES

| WASTE TYPE(S) | | CHARACTERISTIC(S) | | | |
|---|---|---|---|---|---|
| Liquid | X | Corrosive | | Toxic | X |
| Solid | | Ignitable | X | Reactive | |
| Sludge | | Radioactive | | Unknown | |
| Gas | | Volatile | | Other | |
| Semi-Liquid | X | | | | |

### 1. SITE DESCRIPTION

The Waukegan Tar Pit Site (WTPS) is located in the east-central part of Waukegan, Illinois about 1/2 mile northeast of the downtown business district and 1/2 mile west of Lake Michigan. Figure 1

shows the WTPS location. Figure 2 shows the immediate vicinity of the WTPS, which is bounded on the north by Dahringer Road and beyond that by vacant property. It is bounded on the west by Pershing Road, and a rail yard of the Chicago Northwestern Railroad. A bluff rises beyond the rail yard and above the bluff line, about 2,000 feet from the WTPS is Sheridan Road and residential development. The WTPS is bounded on the east by the EJ&E railway line and the facilities of the NSSD. The WTPS is bounded on the south by vacant property owned by the City of Waukegan and EJ&E. The WTPS is bounded on all sides by a chainlink fence.

2. Tar Pit Description

The tar pit hereafter referred to is located in the northeast corner of the WTPS. The tar pit which is covered by 4 to 6 inches of water and occupies an area estimated to be 15,800 square feet, or 0.36 acres, is the subject of the AOC. The topography of the ground surrounding the tar pit is nearly level. Surface waters are limited to water collecting on the tar pit.

Sampling has yielded the following results:

- Water at the tar pit - benzene at 69 ppb, toluene at 59 ppb, and xylene at 18 ppb.

- Tar pit sediment - ethyl benzene at 230 ppm, xylene at 2,000 ppm, o-dichlorobenzene at 6,700 ppm, nitrobenzene at 620 ppm, benzene at 530 ppm, and toluene at 810 ppm.

- Tar 50 feet north of the pit - ethyl benzene at 710 ppm, xylene at 660 ppm, cyclohexane at 80 ppm, o-dichlorobenzene at 210 ppm, benzene at 180 ppm, and toluene at 380 ppm.

## 3. SITE FACILITIES

The site is a vacant lot. Because of the limited scope of this project, on-site facilities will be limited. A cellular telephone will provide on-site communication. Potable water will be available in jugs.

SEE APPENDIX A: EMERGENCY RESPONSE PLAN

## 4. OTHER FEATURES

EPA reports from the TAT investigation describe soft soils to the south of the tar pit. The same source notes the presence of tar seeps at a distance (50 feet) north of the tar pit.

## 5. SITE CONTROL

The lot containing the site is bounded on all sides by a fence. This chain link fence is locked. Signs warning against trespassing are posted. Access to the tar pit will be through the gate located at the northeast corner of the WTPS. The EJ&E Railroad has an active freight railroad operation on the tracks immediately east of the site. Care shall be taken to stay a safe distance from the EJ&E Railroad when in operation.

6. UTILITIES

Aerial photographs indicate the presence of power lines along the east side of the site within the fence line.

7. STATUS OF CURRENT WASTE GENERATION ACTIVITIES

None known.

8. TAR PIT HISTORY

Based on information from the WTPS assessment performed in September, 1990 by the U.S. EPA and Technical Assistance Team, the following events have occurred at the tar pit:

07/07/88 Fire broke out in the tar pit. The Waukegan Fire Department 1988 was summoned. The Illinois Environmental Protection Agency was also at the scene of the fire and later submitted a fire incident report describing the fire and its location.

09/06/90 An assessment of the tar pit was conducted by U.S. EPA and the Technical Assistance Team (TAT) from Roy F. Weston, Inc., consultants.

09/19/90 The PRPs were given verbal notice to restrict access to the tar pit by humans and wildlife.

09/20/90 The PRPs promptly began installing a barrier consisting of a fence to enclose the WTPS and strings of flags across the tar pit to deter migrating waterfowl from landing. The barrier was completed on September 28, 1990.

10/10/90 Roy F. Weston, Inc. submitted the results of the TAT 1990 investigation.

## E. GENERAL SITE HAZARDS

### 1. PHYSICAL HAZARDS:

Physical hazards associated with sample collection and depth checking may pose the greatest hazards at the project site. The depth and thickness of the tar in the pit will be investigated by penetration techniques. Samples of the tar will be collected at several locations. Before sampling and the penetration testing can be performed, the supportability of the ice on the top of the tar pit will be evaluated by determining whether the ice meets the Corp of Engineering specifications for supportable ice. These specifications, along with supportable ice determination methods, the depth probing process, and sampling procedures, are summarized below.

#### Ice Specifications

The ice must be a minimum of four inches thick over liquid to be considered safe to walk on. If the ice is less than four inches thick over liquid, the ice is not considered supportable as a work surface, and the crew will stop work, remove themselves from the ice, and call the office for further direction. (See Addendum 1.)

#### Ice Thickness Determination

The ice will be tested from the shore by drilling a hole in the ice with an auger. If the ice meets specifications, holes will be drilled at 20-foot intervals until the probing site is reached. The ice thickness will be assessed at each of these locations. If the ice is determined to be supportable at these locations, this

process will be continued until the depth probing location has been reached. The sampling crew members will be wearing poly-coated tyvek and boot covers. The use of life preservers is optional. These crew members will wear full body harnesses with lifelines attached. These lines will be secured on the shore.

Thickness Determination Procedure

A three person crew (at a minimum) will be used to collect data on the tar. Two members of the crew will perform the penetration tests, and a third person will remain on standby on the shore. This person will carry a cellular phone. All equipment will be carried on a toboggan or sled. Two pieces of 4' by 8', ½" thick plywood will provide working surfaces on the ice.

If the initial sample shows that the ice is supportable, a plywood section will be placed onto the surface of the ice. A crew member will use this as a working surface, and will drill a hole in the ice to determine ice thickness. If the ice thickness indicates that it is supportable (four inches or greater), the second piece of plywood will be placed immediately adjacent to the first in the direction of the center of the pond. The crew will walk across this second surface, picking up the first section as they leave it, to place it in front of the second piece. Testing holes will be drilled between the plywood sections as they go. This method will be used to characterize the ice depth. If it is determined to be uniformly firm across the pond, use of the plywood platforms may be eliminated for further work.

Platform Specifications

For work activities, a 2' by 4' board will be secured to the edges of the plywood sections. Spikes or nails will be driven through these boards so that the ice surface can be gripped when a person's weight is applied to the platform. This will prevent the platforms from rotating as the holes are drilled.

Small holes may be made near the edges of the plywood sections through which rope may be knotted to serve as handles.

Depth Determination and Sampling

Platform use for depth determination is optional if it has been determined that the ice is uniformly safe to walk on. Plywood sections will be placed on the ice surface at the edge of the pit to be used as working platforms for sample collection.

The use of personal protective equipment may limit visibility, hearing or manual dexterity. In addition, wearing personal protective equipment (such as tyvek, boot covers, respirators, etc.) may require additional physical exertion of the wearer.

Open Water Procedure - See Addendum 1.

2. CHEMICAL HAZARDS

Samples of the water from the top of the tar pit indicate the presence of benzene, toluene and xylene.

Tar pit sediment samples indicate the presence of ethyl benzene, xylene, o-dichlorobenzene, nitrobenzene, benzene and toluene.

A tar seep 50 feet north of the pit was sampled. Ethyl benzene, xylene, cyclohexanene, o-dichlorobenzene, benzene and toluene were detected.

Volatile aromatic compounds detected on-site include benzene, ethyl benzene, toluene and xylenes. Inhalation exposure may result in fatigue, headache or nausea. Acute exposure to high concentrations of benzene vapors can produce neurotoxic effects such as dizziness, vomiting, narcosis, coma, and death. Neurotoxic effects appear to be concentration dependent and exhibit a threshold of effect. Benzene is considered a suspect human carcinogen.

Semi-Volatiles

PAHs. Many polyaromatic hydrocarbons (PAHs) have been detected on-site. Health effects of PAHs are differentiated into carcinogenic and noncarcinogenic effects. Generally, low molecular weight PAHs containing two or three aromatic rings pose a lower health risk than other PAHs of greater molecular weight. Some high molecular weight PAHs pose more serious risks. Rarely, if ever, are humans exposed to a single PAH; rather, exposure is to complex mixtures of PAHs. Little quantitative data on the noncarcinogenic systemic effects of PAHs are available. Occupational exposure to complex mixtures of PAHs has resulted in skin lesions and lung diseases such as bronchitis.

Of greatest concern is the carcinogenic potential of some PAHs (cPAHs). Benzo(a)pyrene (BaP) is the most toxic PAH. When found

in isolation, BaP is known to be a carcinogen in animals. It has caused cancer in laboratory animals when eaten, applied to the skin, or breathed in the air over long periods of time. BaP has been detected in the pit.

Naphthalene. A slightly soluble coal tar constituent, naphthalene has been detected on-site in soil. Naphthalene is toxic to man and animals via inhalation, skin absorption, ingestion, skin and/or eye contact. Naphthalene is slightly soluble in water and is soluble in other organics. Naphthalene is a possible mutagen. Symptoms of exposure to naphthalene include skin and eye irritation, headache, nausea, abdominal pain, profuse sweating and jaundice.

Table 1 lists the highest reported concentration of contaminants found on this site. The Threshold Limit Value (TLV) and odor thresholds are based on inhalation of contaminants in air. The concentration of a compound measured in soils or water cannot be directly compared to the TLV in air; however, it can be used as a guideline in assessing health risk.

## F. PROJECT TASKS

Each project task on site has been identified in Table 2 and has been assigned a protection level, based on its inherent health and safety hazard. These protection levels may be modified by the Barr Site Safety Officer depending on specific site conditions, equipment configuration, air monitoring results and previous experience; however, all modifications must be documented in the **BARR SAFETY DIARY**. The **BARR SAFETY DIARY** should be maintained at the site with Barr personnel at all times, and be returned to Company Safety Manager at completion of project or whenever book becomes full, whichever comes first.

## G. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Table 3 describes personal protective equipment required for each level. No downgrades in specified level of protection shall be made without approval of Barr Site Safety Officer and subsequent documentation in **BARR SAFETY DIARY**.

## H. AIR MONITORING

Table 4 indicates which exposure monitoring instruments should be used on site at the specified intervals. Exposure monitoring should be conducted in the breathing zone and should be conducted both upwind and downwind for comparison purposes.

Barr Site Safety Officer should be notified whenever action levels are exceeded and Barr personnel should document monitoring information in **BARR SAFETY DIARY**.

Equipment Calibration: Equipment is calibrated once a week and as needed. The MSA 260/360 and Microgard is calibrated with a combination of compressed gases including carbon monoxide, oxygen, methane, and butane. Isobutylene is used to calibrate the HNU. Methane is used for the Organic Vapor Analyzer.

Equipment Protection During Cold Weather: Store equipment inside overnight and in warm area when not in use. The Organic Vapor Analyzer will accurately function to -20°F; the HNU will accurately function to 10°F. Note the difference in their limitations. It is recommended that

the Organic Vapor Analyzer be used when temperatures are below 10°F. The oxygen sensor in the MSA 260/360 and microgard will accurately function down to 32°F. Use down to 0°F is possible, if it is calibrated at that temperature.

## I. BUDDY SYSTEM AND COMMUNICATION PROCEDURES

All Barr personnel should have an assigned buddy and should remain in visual/verbal contact with this person at all times while on this site. Table 5 lists the standard hand signals that should be used in case verbal communication is not possible:

## J. DECONTAMINATION

Personnel and equipment leaving this site shall be thoroughly decontaminated at designated decon station.

Level D Decontamination:

Barr personnel should remove protective clothing in this order:

1. Remove boot covers.
2. Remove outer gloves.
3. Remove polytyvek.
4. Remove chemical resistent boots. Change into street shoes.
5. Remove inner gloves.
6. Discard protective clothing into appropriate container.

Barr personnel should wash hands, forearms, face and neck prior to eating, drinking, or using tobacco. Wash hardhat and safety glasses at end of each day.

Level C Decontamination:

If upgrade to Level C is required, remove the respirator after removing the boot covers and outer gloves. Respirators shall be decontaminated according to the procedure described in Appendix D - Respirator Program.

Equipment Decontamination:

Equipment contaminated with tar material will be scraped. Small items will be placed in a garbage bag for disposal. Large, reusable items will be left on the site.

Sample Jars:

Sampling jars should be wiped with a mild soap solution after collection. Sampling equipment should be handled with gloves until decontaminated.

## K. WORK PRACTICES

1. Try to limit work on-site to daylight hours.
2. No smoking, eating, drinking or chewing tobacco during work tasks.
3. If respirator is necessary, assure no facial hair will limit respirator facepiece to face seal.
4. Avoid unnecessary contact with suspect contaminated waters or soils.
5. Work upwind as much as possible.
6. Limit kneeling, or sitting on ground.
7. Protect equipment from site contamination.
8. When sampling or measuring water levels, open well cap and allow it to air out for 5 minutes.

9. Advise Barr Site Safety Officer if using prescription drugs.

10. Minimize alcohol consumption or coffee consumption. Both liquids inhibit the body's ability to compensate for extreme hot/cold conditions.

11. Try to remove all jewelry before donning protective clothing.

12. Wash hands, forearms, face and neck before leaving site.

13. Avoid skin contact or touching of eyes or mouth while on site and prior to decontamination.

## L. CONFINED SPACE ENTRY

Confined space entry should be avoided. Confined spaces may be any excavation, trench, or manhole(s), etc. where there may be a potential for dangerous air concentrations and limited egress. A confined space entry permit is required prior to all confined space entry and shall be obtained prior to leaving the office. Determination of confined space classification and appropriate monitoring and protective levels will be determined at the time of permit issuance.

## M. SAFETY MEETINGS

All Barr employees intending to go on-site will attend a safety session prior to the initialization of work. The orientation meeting shall cover:

1. Work areas -- Sampling locations, water supply, satellites.

2. Decontamination procedures -- Decon area, equipment, procedure.

3. Emergency procedures -- Location of emergency phone numbers and phone, evacuation routes.

4. Communication network -- Buddy system, hand signals.

5. Practice drive to nearest medical facility.

6. First aid procedures -- Location of first aid kit, eye wash station.

7. Project Safety Plan -- Review of plan and sign-off.

At the beginning of each work day, all Barr employees will meet at the site to review job tasks and specific safety precautions associated with each task.

Other meetings shall be held by Barr Site Safety Officer on a periodic basis and will review above issues, as needed. In addition, any changes to work plan and/or protective levels shall be communicated at this time and documented in **BARR SAFETY DIARY**.

N. TRAINING

All Barr employees on site should have attended a 40-hour training session which meets the requirements of 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response. Annually, each Barr employee should attend an eight-hour refresher course. Certificates of completion are kept on file.

O. MEDICAL SURVEILLANCE PROGRAM

All Barr employees on site should participate in a medical surveillance program. Medical monitoring is required of all persons regularly assigned to work on site which contain or are suspected to contain hazardous wastes.

In the event that a Barr employee may be overexposed to a hazardous substance, the Barr Site Safety Officer should be notified and further examination and diagnostic screening may be performed, as determined by Barr's medical advisor.

P. DOCUMENTATION

Field documentation shall be entered in the **BARR SAFETY DIARY** (yellow). Following are entries which should be made:

1. Monitoring Data. Date, time, location, instrument type, instrument number and result, and field calibrations. Note comments about sampling in this section.

2. Project Safety Meetings. Names of Barr attendees, topics covered, changes in work plan.

3. Respirator Usage. Date, names of Barr personnel who used respirator, number of hours worn, type of respirator/filters/ cartridges and contaminant levels monitored.

4. List of Barr Personnel On Site Each Day. Assure each has received a copy of Project Safety Plan and is familiar with its contents.

5. Site Briefing. For all Barr employees new to site, document date and time of briefing.

6. Documentation. Document any changes in Project Safety Plan, and any medical emergency situations.

## Q. EFFECTIVENESS OF PROJECT SAFETY PLAN

Site inspections shall be conducted as necessary to determine the effectiveness of this Project Safety Plan. Any deficiencies noted in the Project Safety Plan, or in its implementation, shall be documented in the **BARR SAFETY DIARY**. Any changes to the Project Safety Plan shall be made in a written addendum.

This Project Safety Plan shall be reviewed and updated as necessary, on an annual basis.

R. PROJECT SAFETY PLAN SIGN-OFF

All Barr personnel should receive a copy of this Project Safety Plan. In addition, a copy should be posted in a Barr vehicle, and all Barr personnel on-site should sign their names on that copy. At the completion of the project, the signed copy should be placed in the project file.

BARR ENGINEERING COMPANY

Waukegan Tar Pit Site

All site personnel have read the above plan and are familiar with its provisions.

| Print Name | Signature | Date |
|---|---|---|
| | | |
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TABLE 1

HIGHEST REPORTED CONCENTRATIONS OF CONTAMINANTS

| Chemical Substance | Highest Concen-trations Detected in Pit (mg/kg) | TLV[1] (ppm) | IDLH[2] (ppm) | STEL[3] (ppm) | Odor Thresh-old (ppm) | Vapor Pressure (mm/Hg) | IP[4] (eV) |
|---|---|---|---|---|---|---|---|
| VOCs | | | | | | | |
| Benzene*[5] | 530 | 10 | Ca | NA | 4.68 | 75 | 9.25 |
| Ethyl benzene | 710 | 100 | 2,000 | 125 | 140 | 7.1 | 8.76 |
| Xylene | 2,000 | 100 | 1,000 | 150 | 0.05 | 9 | 8.56 |
| Toluene | 810 | 100 | 2,000 | 150 | 0.17 | 22 | 8.82 |
| PAHs | | | | | | | |
| naphthalene | 18,000 | 10 | 500 | 15 | 0.08 | 0.05 | 8.12 |
| 2-methyl naphthalene | 10,000 | NA | NA | NA | NA | NA | 7.96 |
| benzo(a)pyrene*[6] | 2,300 | 0.2 $mg/m^3$[6] | Ca | NA | NA | NA | NA |

*Suspect human carcinogen.
Ca: Suspect carcinogen.
Skin: Indicates skin absorption as additional route for exposure.
NA: Information not available.
[1]TLV: Threshold Limit Value
[2]IDLH: Immediately Dangerous to Life or Health
[3]STEL: Short Term Exposure Limit
[4]IP: Ionization Potential (Note the HNU/OVM have a 10.2 eV lamp)
[5]OSHA PEL for benzene is 1 ppm
[6]TLV given is for coal tar pitch volatiles

TABLE 2
PROJECT TASKS

| Task | Task Description | Risk Analysis | Level Protection |
|---|---|---|---|
| Depth Sampling | Probing the pit depth from the ice-covered surface. | Potential for skin/inhalation exposure. Potential for ice failure. | D |
| Pit Sampling | Digging up tar samples from beneath the ice while on ice surface. | Potential for skin/inhalation exposure. Potential for ice failure | C |

NOTE: See Addendums 2, 3 and 4 for additional tasks.

TABLE 3

PERSONAL PROTECTION LEVELS

LEVEL D

R = Required O = Optional

| | D | C |
|---|---|---|
| **GENERAL SAFETY EQUIPMENT** | | |
| Hard Hat | O | O |
| Safety Glasses | R | -- |
| Chemical Goggles/Face Shield | O | -- |
| Hearing Protection (See 3 Below) | O | O |
| **BOOTS** | | |
| Steel Toe Boots | -- | -- |
| Chemical Resistant Steel Toe Boots | R | R |
| Boot Covers | R | R |
| **CLOTHING** | | |
| Cotton Coveralls | O | O |
| Tyvek/Kleengard - 1 Piece | -- | -- |
| Poly-Coated Tyvek 1-Piece/Hooded | R | R |
| Saranex Tyvek 1-Piece/Hooded | -- | -- |
| **RESPIRATORS** | | |
| Full Face - Filters/Cartridges | -- | R |
| Full Face - Canister | -- | -- |
| ELSA | -- | O |
| SCBA/Supplied Air | -- | -- |
| Disposable Respirator | -- | -- |
| **GLOVES** | | |
| Inner Glove | R | R |
| Outer Glove | R | R |

SPECIAL CONSIDERATIONS

1. Level C respirator upgrade shall include MSA full-facepiece with combination GMC-H Cartridges.

2. Other equipment on site should include portable eyewash station and potable bottled water, if water is not easily accessible.

3. Hearing protection is mandatory during soil boring and monitoring well installation.

4. SEE APPENDIX B: COLD STRESS GUIDELINES.

5. SEE APPENDIX C: HEAT STRESS GUIDELINES.

6. Any upgrade or downgrade in personal protection level should be documented in the **BARR SAFETY DIARY**

TABLE 4

AIR MONITORING INSTRUMENTATION

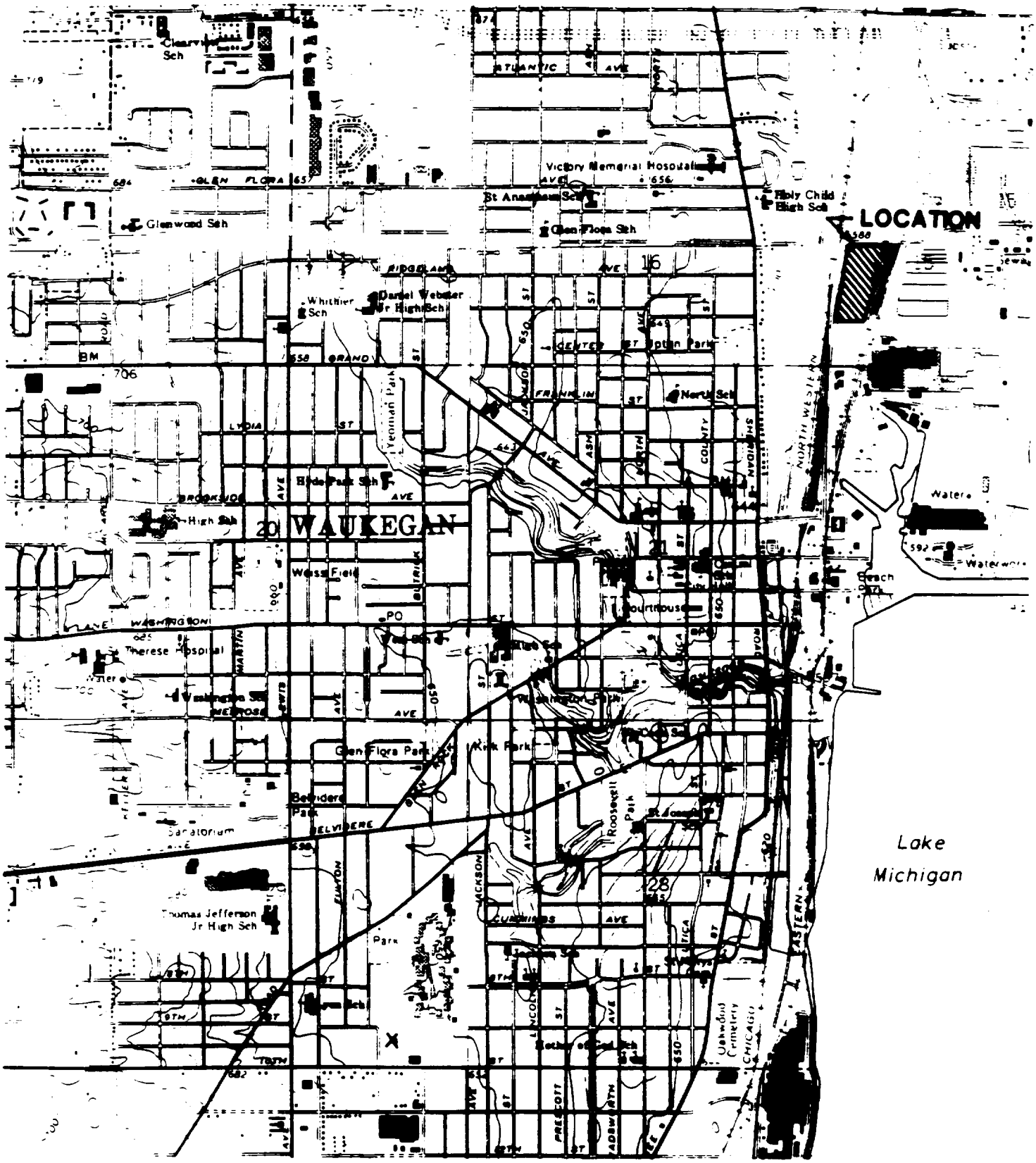
| Monitoring Equipment | Task | Action Levels | Frequency | Record Data |
|---|---|---|---|---|
| MSA 260/360 or Microgard | Pit Sampling<br>Depth Probing | <10% LEL ➡ Level D<br>>10% LEL ➡ Leave area | Continuous | Every hour (indicate range of values) |
| HNU/ Organic Vapor Analyzer/ OVM | Pit Sampling<br>Depth Probing | <5ppm ➡ Level D<br>>5ppm (for 10 min.) ➡ Level C<br>>100 ppm ➡ Leave site and reassess | Continuous | Every hour (indicate range of values) |
| Detector tubes for benzene, toluene, xylene | Pit Sampling<br>Depth Probing | None. Use data to modify organic vapor action level | Daily when levels >5ppm | Every hour |
| Thermo-Luminescent Badge | Worn cohtinuously while on site | NA | NA | NA |

TABLE 5

STANDARD HAND SIGNALS

| Hand Signal | Message |
|---|---|
| Hand cutting motion across throat | Shut down immediately; Leave area immediately. |
| Hand gripping throat | Out of air, can't breathe. |
| Grip partner's wrist or both hands around waist | Leave area immediately. |
| Hands on top of head | Need assistance. |
| Thumbs down | No; negative. |

# *Figures*

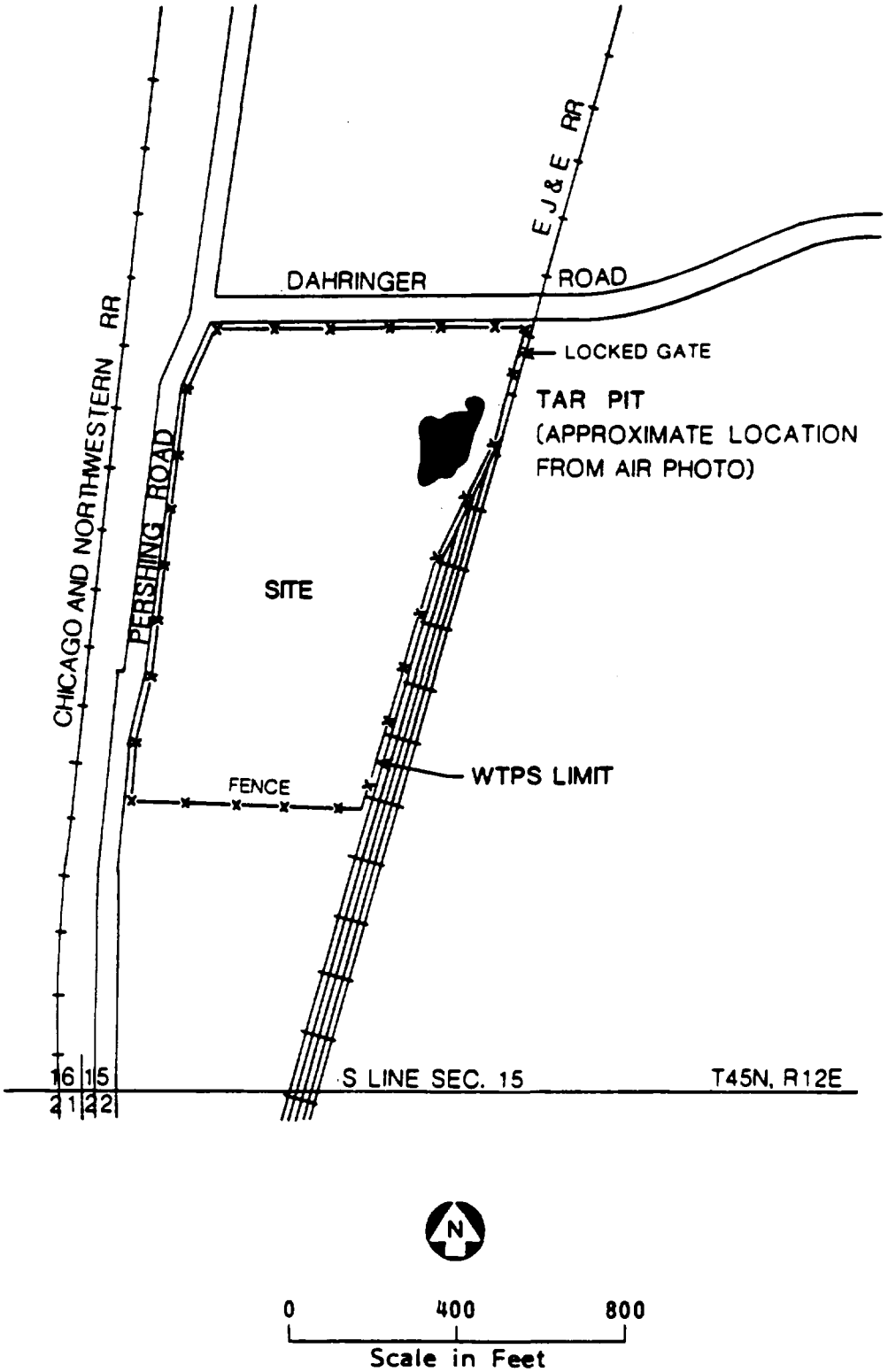



0 2000 4000

Scale in Feet

Figure 1

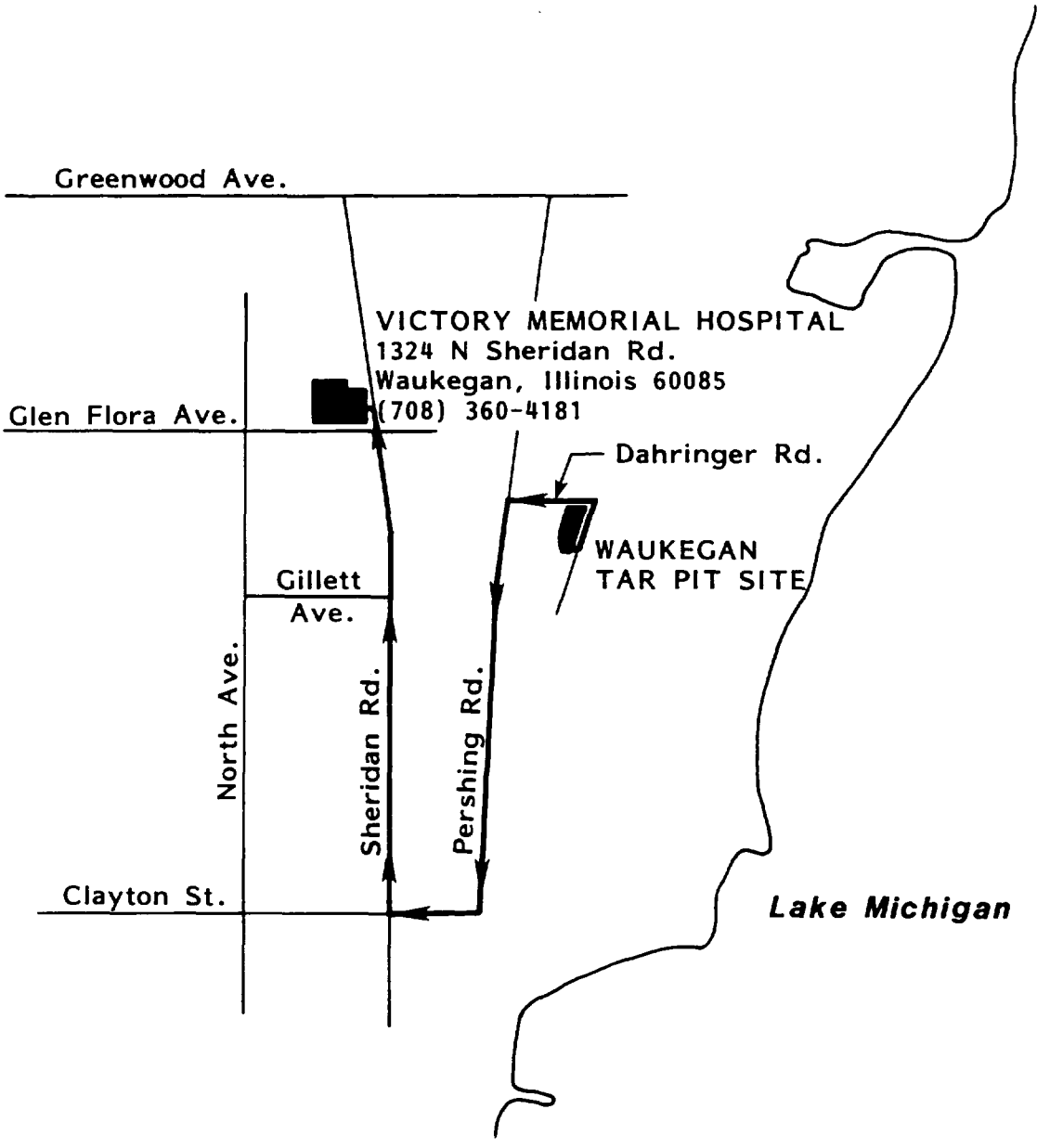
Waukegan Tar Pit Site
LOCATION MAP




—x—x— Chain Link Fence
(Approximate Location)

Figure 2

Waukegan Tar Pit Site
MAP OF IMMEDIATE VICINITY AND TAR PIT




DIRECTIONS:

Follow Dahringer Road to Pershing Road. South on Pershing Road to Clayton Street. West on Clayton Street to Sheridan Road. North on Sheridan Road Approximately One Mile. The Hospital is on the Left Side of Sheridan Road.

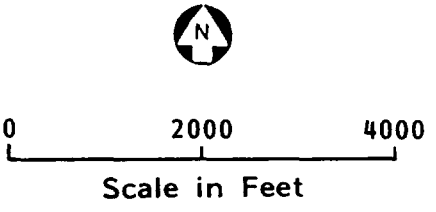



Figure 3

HOSPITAL LOCATION MAP
WAUKEGAN TAR PIT SITE

# *Appendices*

# *Appendix A*

**APPENDIX A**

**EMERGENCY RESPONSE PLAN**

## 1.0 Pre-Emergency Planning

The local fire department, police department and hospital shall be notified of the nature of operations on this site prior to commencement of site operations. A copy of this notification shall be kept in the project file.

As part of the pre-emergency planning, all Barr personnel shall drive the route to the hospital prior to the commencement of site operations. The Barr Site Safety Officer shall designate a vehicle to be used in emergency situations.

## 2.0 Personnel Roles, Lines of Authority, and Communication

The Barr Site Safety Officer shall be notified of any on-site emergencies and be responsible for ensuring that the appropriate procedures are followed. Upon attainment of non-emergency conditions, the project manager should be informed of the incident.

## 3.0 Emergency Recognition and Prevention

An emergency may be recognized by the presence of fire, an explosion, or release of hazardous substances. Environmental monitoring, as described in this Project Safety Plan, shall be conducted on the recommended intervals to help safeguard against emergency conditions.

## 4.0 Safe Distances and Places of Refuge

In case of fire/explosion or release of hazardous substances, evacuate all personnel shall be evacuated to an area at least 100 feet upwind.

## 5.0 Site Security and Control

The site security fence shall remain locked when not in use.

## 6.0 Evacuation Routes and Procedures

The Barr site safety officer shall be responsible for determining evacuation routes and procedures. In the event that an evacuation route has not been established, all Barr personnel shall attempt to evacuate the site upwind and as quickly as possible. No regard to equipment in use at the time shall be made at the risk of personal safety.

## 7.0 Decontamination Procedures

In the event of an emergency, decontaminate injured persons as much as possible prior to transport to a health facility, if the injury is not life threatening. If the injury is life threatening, wrap the person and transfer as quickly as possible. Decontamination procedures, as described in this Project Safety Plan, shall be followed whenever possible.

## 8.0 Emergency Medical Treatment and First Aid

In the case of serious medical emergency, call **911 for emergency medical assistance. Do not attempt to transport a seriously injured person to the hospital.**

Emergency telephone numbers are listed below:

| Agency/Facility | Telephone Numbers |
|---|---|
| Police | 911 or 623-2121 |
| Fire | 911 or 623-2121 |
| Hospital Emergency Room | 360-4181 |
| EPA Contact: | Maureen O'Mara |
| Poison Control | 1-800-222-1222 |
| Barr Engineering Co. | (612) 830-0555 |
| Barr Engineering Occupational Physician: Dr. Jetzer | (612) 853-5371 |

Emergency First Aid procedures are described below:

| Exposure | First-Aid Instructions |
|---|---|
| Eye Contact: | Flush eyes with clean water for at least 15 minutes. Seek medical attention, if needed. |
| Skin Contact: | Flush skin with clean water for at least 15 minutes. Remove contaminated clothing while flushing skin. Seek medical attention, if needed. |
| Inhalation: | Remove person to fresh air, away from active work area. Seek medical attention, if needed. Provide artificial ventilation by qualified individual, while awaiting emergency medical services. |
| Ingestion: | Do not induce vomiting. Seek medical attention immediately. |

Emergency route to hospital and hospital location map are shown in Figure 3. If possible, while a vehicle is en route to the hospital, a remaining Barr person shall call the hospital to notify them that an injured

person will arrive soon and to provide background information on chemical/physical exposure.

## 9.0 Emergency Alerting and Response Procedures

Barr employees on the site are responsible for emergency alerting and response procedures. Barr personnel shall not attempt any response procedures, except those necessary for the safe evacuation of others.

## 10.0 Critique of Response and Follow-up

Upon attainment of nonemergency conditions, the Company Safety Manager and the Project Manager shall be notified of the site occurrences. Follow-up discussions and changes in project site safety shall be documented in the **BARR SAFETY DIARY**.

## 11.0 PPE and Emergency Equipment

The Barr personnel on the site shall be responsible for responding to the emergency. Barr personnel shall maintain a distance of 100 feet upwind of the emergency operations and shall wear protective equipment consistent with levels of protection as determined in this Project Safety Plan.

# *Appendix B*

## APPENDIX B

## COLD STRESS GUIDELINES

Major injuries to extreme cold temperatures are general hypothermia and frostbite. Cold stress can also occur when impermeable protective clothing is removed and all clothing underneath is perspiration soaked. Precautionary measures to prevent cold stress are contained in this section.

### A. FROSTBITE AND EMERGENCY CARE

**FROSTBITE** is the literal freezing of body tissue. There are three stages:

1. Incipient (Frost Nip): Affects tips of ears, nose, cheeks, fingers, toes, chin. The skin is blanched white and painless.

2. Superficial: Affects skin and tissue just beneath the skin. Skin is firm and waxy, tissue beneath is soft, numb and then turns purple during thawing.

3. Deep: Affects entire tissue depth. Tissue beneath skin is solid, waxy, white with a purplish tinge.

**EMERGENCY CARE FOR EACH STAGE OF FROSTBITE:**

1. Emergency Care for Incipient Frostbite: Skin can be warmed by applying firm pressure with a hand (no rubbing), by blowing warm breath on spot or by submerging in warm water. Have another person test water temperature to be sure it is not too hot.

2. Emergency Care for Superficial Frostbite: Treatment includes providing dry coverage and steady warmth. Submerging in warm water is helpful. Check water temperature first.

3. Emergency Care for Deep Frostbite: This person needs emergency hospital care. Call for emergency medical assistance. Dry clothing over frostbite will help prevent further injury. Submerging in warm water will help thaw. If frostbitten tissue is a nose or ear, pour warm water over the affected area instead of attempting submersion. The frostbitten part should not be rubbed in any way. The part should not be thawed if the person must walk on it to get to a medical facility. Never initiate thawing if there is any danger of refreezing. Do not delay transport to a medical facility for rewarming.

## B. HYPOTHERMIA AND EMERGENCY CARE

The body's first defense against cold is constriction of the blood vessels of the skin and/or shivering. Shivering produces heat through rapid contractions of muscles and raises the body's metabolic rate and internal core temperature.

Hypothermia manifests itself in five stages:

1. **Shivering** -- May be uncontrollable.
2. **Indifference** -- Sleepiness, apathy, and listlessness.
3. **Unconsciousness** -- Usually accompanied by a slow respiratory rate and a slow pulse rate.
4. **Freezing** of the extremities.
5. **Death**.

| Predisposing factors | Prevention |
|---|---|
| 1. Poor physical condition. | Rest and eat before exertion. |
| 2. Failure to eat/drink enough or little body fat. | Nibble high energy food throughout day. Drink water at each rest break. |
| 3. Inadequate clothing. | Wear windproof outer clothing (tyvek) or windbreaker, wool underneath. |
| 4. Wetness (from perspiration or precipitation). | Wear polypropylene or wool underwear. Carry warm change of clothes. |

**EMERGENCY RESPONSE FOR HYPOTHERMIA:**

Emergency care entails preventing heat loss, rewarming the person and remaining alert for complications. Call for emergency medical assistance.

1. Handle person very gently.
2. Remove wet clothing. Replace with dry coverings.
3. Add heat gradually and gently by applying chemical heat packs to groin, chest, neck and head. Use warmed blankets or other bodies.
4. Do not rub or manipulate the extremities.
5. Do not give coffee or alcohol.
6. Warm fluids can only be used after uncontrollable shivering stops and person has a clear level of consciousness and can swallow.
7. Keep temperature constant throughout emergency care.
8. Transport to medical facility as soon as possible.

## C. SUGGESTIONS TO PREVENT COLD STRESS

1. FEET: Wear two pair of socks. Inner layer should be made of polypropylene or wool material to wick moisture from skin. The second layer should be a thick wool, to insulate the air around the foot. Keep an extra set of socks on site. Keep feet dry. Wear pack boots (steel-toed) with wool felt or Thinsulate liners.

   To keep toes warm, shake one foot at a time. Keep toes moving. Keep feet moving.

2. HANDS: Wear two layers of gloves. Inner glove layer should be wool. Outer glove layer -- insulating and water-proof material. Gloves should fit loosely to keep air insulated around fingers. Wear mittens, if possible. Keep hands dry.

   To keep hands warm, increase circulation to fingers. This can be done by shaking hands and by swinging arms in large circles. These movements encourage blood flow to the extremities.

3. FACE: Use a wind protective cream on face and ears. Creams containing beeswax work best. Re-apply throughout day. Cover as much of your face and ears as possible. Wear faceshield to cut wind exposure.

4. HEAD: Keep head covered. A hardhat liner will cover both head and ears and protect against body's heat loss through head.

5. BODY: Wear several layers of clothing. Polypropylene, wool or silk underwear are good inner layers. Tyvek is a good windbreaker. Insulated coveralls work well. Insulate neck with scarf or turtleneck. Keep an entire extra change of clothes. Remove wet clothing immediately.

6. SHELTER: Use warm shelters and take regular rest periods.

# *Appendix C*

## APPENDIX C

## HEAT STRESS GUIDELINES

Major injuries to extremely hot environments are heat stroke, heat exhaustion, and heat cramps. Heat stress can occur when the temperature is moderately high, when humidity is high, when there is little breeze, or when protective clothing does not permit natural cooling of the body. Precautionary measures to prevent heat stress are contained in this section.

### A. HEAT STROKE

Occurs when the body's natural heat regulatory mechanisms break down and fail to cool the body sufficiently. The body becomes overheated and the body temperature rises to between 105°F - 110°F. **NO SWEATING OCCURS.**

SYMPTOMS:

- Dry, hot skin, usually red.
- Constricted pupils.
- Very hot body temperature.
- Rapid and strong pulse.

TREATMENT:

- Call for emergency medical assistance.
- Emergency care is aimed at immediately cooling the body.
- Remove the person from direct sunlight.
- Undress the person, wet down their body with cold water, and fan them as briskly as possible.
- Wrap person in cold, water soaked sheets and call for ambulance or transport to hospital as quickly as possible. Elevate person's head and shoulders and make sure that person is comfortable.
- Move to air-conditioned area, if possible, and apply ice packs to head and body pulse points while awaiting emergency assistance.

## B. HEAT EXHAUSTION

Occurs when the body has lost large quantities of salt and water through profuse sweating. When the water is not adequately replaced, blood circulation diminishes. Heat exhaustion is sometimes accompanied by heat cramps, due to loss of salt.

SYMPTOMS:

- Moist, clammy skin, usually pale.
- Dilated pupils.
- Weakness/dizziness and/or nausea.

TREATMENT:

- Move person to cool place.
- Apply cold, wet compresses to the skin and fan person lightly.
- Raise the feet 8 to 12 inches to increase blood circulation to brain.
- Remove as much of a person's clothing as possible, and loosen what you cannot remove.
- Administer sips of Gatorade, one-half glass every 15 minutes.
- Seek medical attention.

## C. HEAT CRAMPS

Muscular pains and spasms occur when the body loses too much salt during profuse sweating or when inadequate salt is taken into the body. Usually occurs in the arms, legs, or abdomen, and are often a sign of approaching heat exhaustion.

SYMPTOMS: ▪ Muscular pain in the arms, legs, or abdomen

TREATMENT:
- Administer sips of Gatorade, one-half glass every 15 minutes.
- Do not massage cramping muscles. Massage does not cure the heat cramps and may actually increase the pain.
- Note: Some experts recommend massage as long as it does not increase pain or discomfort.
- Help the person to remain calm and relaxed.

## D. HEAT RASH (Prickly Heat)

Caused when sweat is not easily removed from the skin surface and aggravated by chafing clothes.

SYMPTOMS: ▪ Red rash and/or small red bumps on skin.

TREATMENT:
- Rest in cool place.
- Allow skin to dry.
- Change into dry clothes.

## E. RECOMMENDATIONS TO PREVENT HEAT STRESS

1. To prevent dehydration, drink generous amounts of fluids, even if not thirsty. To replace body fluids lost during sweating, drink water, Gatorade, or flavored drinks. Avoid coffee or alcohol consumption, as these fluids will contribute to dehydration.

2. Health related problems can happen before the sensation of thirst occurs. A good rule to follow, is to drink a glass of water every time you go to the bathroom.

3. Use salt generously on foods, unless on a low-salt diet.

4. Take frequent rest breaks. Ensure that there is a shaded shelter area for rest breaks and coolers are filled with water or Gatorade. On very hot days, air-conditioned rest areas should be used.

5. In extremely hot weather, work in early morning and evening hours. The hottest time of the day is generally 2:00 - 4:00 p.m.

6. Peel off protective garb during rest breaks.

7. It takes about five days to acclimatize to working in a hot environment. The acclimatized person sweats less, and loses less salt in the sweat.

# *Appendix D*

**APPENDIX D**

**RESPIRATOR PROGRAM**

## 1.0 Purpose

The purpose of the respirator program is to:

- Provide respiratory protection for employees while working on sites covered by the Project Safety Plan.

- Provide emergency escape respirator protection for employees working on sites covered by the Project Safety Plan.

## 2.0 Respirator Equipment

Respirator selection is made according to the American National Standards Institute (ANSI Z88.2-1980, Practices for Respiratory Protection). Barr provides respirators approved by NIOSH (National Institute of Occupational Safety Health) and MSHA (Mine Safety and Health Administration).

### 2.1 Types of Respirators

Barr provides the following types of respirators:

- Mine Safety Appliance (MSA) Ultratwin full facepiece respirator (Protection Factor = 100).

- MSA Comfo half mask respirator (Protection Factor = 10).

- MSA Self-Contained Breathing Apparatus (SCBA), Model No. 401 - Air Work Mask (pressure demand, Protection Factor = 10,000).

- MSA Supplied Air (SA); to be worn with the Air Work Mask (pressure demand, Protection Factor = 1000)

- International Safety Instruments, Inc. (ISI) Emergency Life Support Apparatus (ELSA) - 5 minute supply of air for escape use only.

- 3M 8715, 8720, 9970 Disposable Respirator (Protection Factor = 5); nuisance dust only.

## 2.2 Types of Filters and Cartridges

Barr provides the following types of filters and cartridges to be worn with full facepiece and half mask respirators. They are stored on a shelf in the safety equipment room. They are not to be used for entry into atmospheres immediately dangerous to life or health, nor for use in atmospheres containing less than 19.5 % oxygen.

- MSA <u>GMC-H</u> (Approval No. TC-23C-153). Combination cartridge for organic vapors, acid gases, and particulates (not formaldehyde), including asbestos-containing dusts and mists and radionuclides. Approved for use by NIOSH/MSHA in atmospheres containing not more than 1,000 ppm (parts per million) organic vapors, 10 ppm Cl, 50 ppm HCl, 50 ppm $SO_2$, 1 ppm $ClO_2$, 100 ppm $H_2S$ (escape only).

- MSA <u>HEPA</u> (Approval No. TC-21C-135). High efficiency particulate air filter for removal of radionuclides and dust fumes and mists having a time weighted average of less than 0.05 mg/m$^3$, including asbestos dusts and mists.

## 2.3 Air Quality

When air is supplied through a respirator such as the SCBA or SA, the breathing air shall meet the Compressed Gas Association (CGA-CG7.1) Standards - Grade D or better.

## 2.4 Air Cylinders

Cylinders used to supply air are tested and maintained as prescribed in Shipping Container Specifications (49 CFR 178). The cylinders are at approximately 2400 pounds per square inch (psi) when full. Compressed air cylinders are visually inspected annually and hydrostatically tested once every five years. These test dates are noted with a label for visual inspection testing and a stamp for hydrostatic testing.

## 2.5 Corrective Lenses

Barr recommends that contact lenses be removed before a full facepiece respirator is placed on the face. Barr provides spectacle kits (smoke specs) for all employees who may need optical correction while wearing a full facepiece respirator. These insert into the facepiece mask and do not compromise the facepiece-to-face seal.

# 3.0 Respirator Selection

Respirators will be selected based on the types of hazards present on sites covered by this plan. Factors considered when determining which type of respirator to use are:

- Contaminant level: when the suspected exposure level may be greater than the action level determined in the Project Safety Plan.

- Toxicity of hazardous substance, pollutant, or contaminant.

- Length of anticipated exposure to hazardous substance, pollutant or contaminant.

- Potential for increase in exposure levels.

- Presence of other hazardous substances, pollutants or contaminants.

- When hazardous substances, pollutants or contaminants cannot be identified.

- Monitoring method used to determine hazardous substance, pollutant, or contaminants.

## 3.1 Respiratory Level of Protection

The Project Safety Plan will describe the level of respiratory protection that will be necessary for work on sites covered by this Plan. These levels are:

Level D: Disposable respirator and ELSA use is optional.

Level C: Full facepiece or halfmask respirator with a filter/cartridge is required. A full facepiece respirator with a canister may be substituted. ELSA is optional.

Level B: SCBA/SA is required.

Level A: In the event that Barr employees are required to work at Level A protection, additional special training and equipment will be required.

## 4.0 Project Site Surveillance

Personal air monitoring is done to determine the level of hazardous substance, pollutant or contaminant on the site. Monitoring is continued on a regular basis (the frequency is stated in the Project Safety Plan) to determine if an upgrade to Level C respiratory protection is necessary.

## 5.0 Training

All employees covered by this Plan are trained in the proper use of respirators and their limitations during the initial (40 hour and 24 hour) training program. Additionally, they are trained on an individual basis when they are fit tested in the Barr safety equipment room. This training is reviewed annually at the 8 hour annual refresher course. Training provides the user the opportunity to:

- Handle the respirator.
- Have the respirator fit properly (qualitative fit test). Conditions such as beard growth, sideburns and temple pieces on glasses may prevent a good face seal and cannot be worn by Barr employees using a respirator.
- Test the facepiece-to-face seal with a negative and positive pressure fit test.
- Wear the respirator in normal air for a familiarity period.
- Wear the respirator in a test atmosphere which contains nontoxic irritant smoke.

This training also covers proper donning/doffing, maintenance and repair, and proper storage procedures.

## 6.0 Proper Use of Respirators

There is a specific sequence of procedures which must be followed to ensure a good respirator fit. This donning procedure, as well as the recommended doffing proc9dure, is listed below.

### 6.1 Respirator donning procedure

- Release straps to full open position
- Holding respirator in one hand, place respirator to face so that the chin is inserted into chin cup of respirator.
- Push respirator up to face and, with other hand, pull head straps simultaneously.
- Pull lower straps reasonably tight. Try to pull both straps simultaneously.
- Pull top straps until snug.
- Straps should hold facepiece securely to face but should not be overly tight.
- Adjust facepiece for comfort and fit.
- Perform negative pressure test by placing hands over the intake valves and sucking in to determine whether air is leaking in.
- Perform positive pressure test by removing exhalation valve cap and placing a hand over the exhalation valve and blow to determine if air is leaking out.

- Readjust facepiece until a good fit is made.

## 6.2 Respirator Removal Procedure

- The respirator may be contaminated, so care must be exercised in removing it.

- The respirator is one of the last things to be removed when leaving the contaminated area.

- Release straps and pull respirator over head.

- Pull straps over respirator faceshield to protect the lens.

- Lay respirator so that it will not become contaminated inside or will not contaminate other things.

- Follow the cleaning/disinfecting procedure in Section XX.

- If the respirator is not cleaned at this time, it is placed in the designated "dirty" plastic bag, kept in the storage box, to be cleaned at a later time. After it is cleaned, it is placed in the designated "clean" plastic bag.

- Alcohol wipes are included in the respirator boxes to clean the inside of the respirator, the sealing flange, and the outside of the respirator (in that order) between uses throughout the day.

## 7.0 Respirator Fit Tests

A qualitative respirator fit test, using irritant smoke to detect leaks in the facepiece-to-face seal is given to all employees to assure a good fit. The fit test procedure is described below:

- The respirator is donned.

- Negative and positive pressure tests are performed.

- A 3M FT-10 hood (Qualitative Fit Test Apparatus W-5220) is placed over the employee's head.

- Irritant smoke is directed toward the faceseal surfaces, constantly challenging the facepiece to face seal. Irritant smoke is generated from a Ventilation Smoke Tube (MSA Part No. 5645).

- Exercises performed by the employee are: head side to side, head up and down, deep breathing, running in place, normal breathing, recitation of "Rainbow Passage". Smoke is directed toward the stressed faceseal surface.

- If there are no signs of leakage (ie. throat irritation), the respirator is considered to fit that employee.

- The employee is assigned a respirator of the same style and size along with a storage box with the appropriate accessories. The employee signs the Respirator Fit-Test book, located in the Equipment Maintenance Room, and the person conducting the respirator fit-test also signs the book, indicating that the employee successfully passed the fit-test.

## 8.0 Respirator Maintenance/Repair

Barr employees covered by this Plan are responsible for inspecting their respirators prior to each use. Employees should perform emergency respirator repair as needed. The Equipment Maintenance Technician is available for non-emergency repairs.

## 9.0 Respirator Cleaning/Disinfection Procedure

Employees are responsible for the cleaning and disinfection of their respirator after each use. The cleaning/disinfection procedure is described below:

- Break down the respirator into its component parts.
- Discard the expended filters or cartridges.
- Discard headstraps and valves if they are too contaminated to be cleaned or are no longer functional.
- Wash remaining parts in warm water with a mild detergent (MSA Cleaner-Sanitizer II or similar). Scrub parts with a soft brush.
- Rinse.
- Air dry respirator in a clean area.
- Place respirator in "clean" plastic bag, seal, and place in storage box.

## 10.0 Storage

Each employee is assigned a numbered box for storage of their respirator. This box is kept on a shelf in the safety equipment room. The box contains: A33 cleaning powder for washing the respirator, alcohol wipes for midday use, a spare exhaust valve, 2 spare inhalation valves, 2 cartridge gaskets, a lens protector, a designated "dirty" plastic bag, a designated "clean" plastic bag, 2 spare HEPA cartridges, and 2 spare GMC-H cartridges. Employees covered by this Plan have their names listed alphabetically with their corresponding respirator numbers on the wall of the safety equipment

room. Respirators are stored in a plastic bag in their storage box, with the facepiece resting in a normal position.

## 11.0 Inspection

All full facepiece respirators, SCBAs and SA apparatus are inspected once a month by the Equipment Maintenance Technician, and before each use by the employee that will be using the respirator. Respirators are also inspected during cleaning. Compressed air cylinders are checked to see they are fully charged according to the manufacturer's instructions. Respirator inspection includes a check on the condition of:

- Facepiece
- Headbands
- Valves
- Connecting tube
- Rubber or elastomer parts

Replacement or repairs on the full facepiece respirators are done only with parts designated for the respirator by the manufacturer. Repairs on SCBA/SA respirators are performed only by the manufacturer. Records are maintained in the yellow notebook located in the safety equipment room. Records include inspection dates and comments on respirator maintenance.

## 12.0 Program Evaluation

The effectiveness of the respirator program is evaluated annually at the annual refresher training session through input from employees covered by this Plan, and is reviewed regularly by the Company Safety Manager.

## 13.0 Medical Surveillance

Each employee covered by this Plan undergoes a physical exam and pulmonary function test prior to being issued a respirator. This physical exam and pulmonary function test evaluates their ability to wear a respirator under conditions which may be expected at the Project Site. Medical surveillance for Barr employees who may be required to wear a respirator is conducted annually.

# *Appendix D*

## *Chemical Waste Management (CWM) Contract*

# AGREEMENT

This Agreement is entered into this 5th day of November, 1991 by and between Chemical Waste Management, Inc., a Delaware corporation, with principal offices at 3003 Butterfield Road, Oak Brook, Illinois (hereinafter "CWM") and North Shore Gas Company, an Illinois corporation with principal offices located at 122 South Michigan Avenue, Chicago, Illinois 60603 ("North Shore").

WHEREAS, North Shore has requested proposals for emergency action at the Site, as defined herein; and

WHEREAS, in response to such request, CWM has submitted to North Shore a proposal to perform such emergency action; and

WHEREAS, North Shore wishes to contract with CWM to perform the Work as defined herein.

NOW THEREFORE, the parties hereto agree as follows:

Article I - Definitions. The following terms shall have the meanings specified in this Article.

A. "AO" shall mean the unilateral administrative order issued by the United States Environmental Protection Agency, dated September 4, 1991 concerning the Waukegan Tar Pit Site, EPA Docket No. V-W-91-C-115, a copy of which is attached hereto as Exhibit "A" and made a part hereof.

B. "North Shore's Designated Engineer" shall be Barr Engineering Company, 7803 Glenroy Road, Minneapolis, Minnesota 55439-3123. North Shore may designate a different Engineer upon written notice to CWM.

C. "Disposal Facilities" shall mean Adams Center Landfill, Fort Wayne, Indiana and CID Landfill, Calumet City, Illinois.

D. "EPA" shall mean the U.S. Environmental Protection Agency.

E. "Non-conforming Waste Materials" shall mean those Waste Materials that the Disposal Facilities are not allowed to accept under their environmental operating permits.

F. "Site" shall mean the Waukegan Tar Pit Site as defined in the AO.

G. "Special Process Waste Materials" shall mean those Waste Materials requiring additional processing other than as described in Article V, Section F.

H. "Tar Materials" shall mean Visible Free Tar and tar mixed with dirt.

I. "Tar Pit" shall mean the Waukegan Tar Pit as described in the AO and as may be further defined by North Shore's Designated Engineer.

J. "Visible Free Tar" shall mean tar which is free of soil including soft and hard tar.

K. "Waste Materials" shall mean the Visible Free Tar, tar and dirt and other materials in the Tar Pit or located on the Site that are to be removed, stored on Site, transported and disposed of by CWM as described in Article II of this Agreement.

M. "Work" shall mean CWM's work obligations as described in Article II of this Agreement and shall generally be performed as referred to in North Shore's Request For Proposal, attached hereto as Exhibit "B," and as referred to in Sections 2, 3, 5, and 7 of CWM's proposal dated October 16, 1991, attached hereto as Exhibit "C."

Article II - CWM's Work Obligation.

A. CWM agrees to furnish all labor, supervision, material, equipment, and tools necessary to perform and complete all of the below designated work.

1. Removal, storage on-Site, transportation and disposal of the Waste Materials that are designated for removal by North Shore's Designated Engineer in order for North Shore to comply with the AO.

2. Treatment of on-Site contaminated water for release to the North Shore Sanitary District and/or for off-Site disposal.

3. Construction, demolition, Site preparation, excavation, clean-up, monitoring, and Site rehabilitation work

in order: (i) to complete the work as described in this Article II; and (ii) for North Shore to comply with the AO.

B. CWM shall remove, transport and dispose of the Tar Materials by no later than January 5, 1992.

C. All Work shall be done under the general supervision of North Shore's Designated Engineer.

D. CWM agrees to perform and complete the Work in a manner so as not to damage any buildings or other property at or adjacent to the area where the Work is to be performed and to perform and complete the Work at times and in such a manner that will not unnecessarily interfere with the activities of private parties or the public at or adjacent to the area where the Work is to be performed.

E. CWM's obligations hereunder shall not include any duty to dispose of Non-Conforming Waste Materials. CWM agrees to negotiate in good faith with North Shore to provide for alternative disposal.

Article III - Change Order. "Change Order" shall mean a written amendment of this Agreement signed by both parties describing an addition, deletion or revision in the Work, or an adjustment in the price.

The terms of this Agreement affecting a material change in the Work may only be changed by means of a Change Order.

Article IV - Term. The Term of this Agreement shall commence upon the execution date hereof and shall continue until the earlier of: (i) the date this Agreement is terminated by North Shore in accordance with Article XVII; or (ii) the completion of the Work.

Article V - Payment.

A. North Shore agrees to employ CWM in the performance of the Work and to pay CWM in accordance with the Price Schedule, attached hereto as Exhibit "D."

B. The contract price shall be payable as follows:

1. Each month CWM shall make an estimate in writing of the amount of the Work performed and the value thereof for a period beginning the first day of the prior calendar month and ending the last day of the prior calendar month, both days inclusive. CWM shall submit this estimate to North Shore's Designated Engineer for approval. Each estimate shall be in sufficient detail to relate the costs reflected therein for the Work performed. Within thirty (30) days after receipt of the estimate, North Shore shall mail to CWM as partial payment on the contract price, a check equal to ninety percent (90%) of the amount of CWM's estimate.

2. North Shore reserves the right to require additional documentation to substantiate a request for payment. CWM hereby agrees to keep all records and books of account relating to this Agreement on the basis of generally accepted accounting principles and upon the termination of this

Agreement shall deliver copies of such records and books and other plans and documents relating to this Agreement to North Shore or to its designated representative.

C. The remainder of the contract price shall be paid to CWM upon completion of the Work to the satisfaction of North Shore's Designated Engineer.

D. Acceptance by CWM of final payment of each estimate submitted for Work performed and completed shall be deemed an accord, satisfaction and release by CWM of any and all claims to compensation for said completed Work under the terms of this Agreement.

E. North Shore shall not be held to or estopped by the approval of any estimate submitted to North Shore's Designated Engineer. In the event it is determined that CWM has been overpaid, CWM shall repay North Shore the amount of such overpayment.

F. CWM acknowledges that it has received a representative sample of the tar in the Tar Pit and has evaluated the suitability of the Tar Materials for land disposal. CWM states that the tar needs to be mixed with a non-hazardous neutral absorbent material in order to meet the requirements of the paint-filter test. The addition of absorbent material to Tar Materials shall be in a proportion not greater than 30% by weight of the absorbent material. When possible, lesser amounts of absorbent material are to be used

to meet the requirements of the paint-filter test. Upon completion of the Work, a material balance shall be conducted to determine whether CWM has exceeded the 30% absorbent material weight proportion. Such analysis shall factor the weight of the absorbent material (as established by weight tickets or on-site scales) and the weight of the combined mixture of Tar Materials and absorbent material. To the extent that the proportion of absorbent material exceeds 30% by weight, CWM agrees to reduce its billings, on a direct cost basis, for transportation and disposal of Tar Materials.

Article VI - Indemnification.

A. CWM acknowledges that the Waste Materials are hazardous wastes subject to strict environmental law regulation and agrees to manage, treat, store and dispose of the Waste Materials in compliance with all environmental laws. North Shore quit claims, and CWM agrees to take title to, the Tar Materials upon excavation and to other Waste Materials upon removal from the Site.

B. CWM agrees to indemnify and save harmless North Shore, its present and past officers or directors, employees and agents, from and against any and all liabilities, penalties, fines, forfeitures, demands, claims, causes of action, administrative and judicial proceedings and orders, remedial action requirements and enforcement actions of any kind, suits, and costs and expenses thereof (including cost of defense, settlement, and reasonable attorneys' fees), which any

or all of them may hereafter suffer, incur, be responsible for or pay out as a result of bodily injuries (including death) to any person, damage (including loss of use) to any property (public or private), contamination of or adverse effects on the environment, or any violation or alleged violation of statutes, ordinances, orders, rules or regulations of any governmental entity or agency, directly or indirectly caused by, or arising out of: (i) breach of any warranties by CWM, or any negligent or willful act or omission of CWM, its employees or subcontractors in the performance of this Agreement; or (ii) storage, treatment, transportation or disposal of excavated or removed Waste Materials.

It is understood and agreed that CWM shall not be obligated to indemnify and save harmless North Shore and its present and past officers or directors, employees and agents, subcontractors and assignees, from and against any and all liabilities, penalties, fines, forfeitures, demands, claims, causes of action, administrative and judicial proceedings and orders, remedial action requirements and enforcement actions of any kind, suits, and costs and expenses thereof (including cost of defense, settlement, and reasonable attorneys' fees), which any or all of them may hereafter suffer, incur, be responsible for or pay out as a result of bodily injuries (including death) to any person, damage (including loss of use) to any property (public or private), contamination of or adverse effects on the environment, or any violation or alleged violation of statutes,

ordinances, orders, rules or regulations of any governmental entity or agency, to the extent that North Shore is required to indemnify and save harmless any or all of the indemnitees pursuant to Paragraph C of this Article VI.

C. North Shore agrees to indemnify and save harmless CWM, its present and past officers or directors, employees and agents, subcontractors and assignees, from and against any and all liabilities, penalties, fines, forfeitures, demands, claims, causes of action, administrative and judicial proceedings and orders, remedial action requirements and enforcement actions of any kind, suits, and costs and expenses thereof (including cost of defense, settlement, and reasonable attorneys' fees), which any or all of them may hereafter suffer, incur, be responsible for or pay out as a result of bodily injuries (including death) to any person, damage (including loss of use) to any property (public or private), contamination of or adverse effects on the environment, or any violation or alleged violation of statutes, ordinances, orders, rules or regulations of any governmental entity or agency, directly or indirectly caused by, or arising out of: (i) any negligent or willful act or omission of North Shore, its employees or agents in the performance of this Agreement; or (ii) unknown objects in the Tar Pit which (a) directly or indirectly cause personal injury or property damage at or near the Site and (b) which CWM could not reasonably have been expected to be aware of based on the AO, the RFP or the

testing of the Waste Materials. CWM agrees that it is aware that the AO states in Findings No. 3 and 5 that the Tar Materials may have a flash point of 60°F or 72°F, respectively. "Unknown objects" as used in this Article VI(C) shall not include Tar Materials or any of the usual chemical constituents of the Tar Materials.

It is understood and agreed that North Shore shall not be obligated to indemnify and save harmless CWM, its present and past officers or directors, employees and agents, subcontractors and assignees, from and against any and all liabilities, penalties, fines, forfeitures, demands, claims, causes of action, administrative and judicial proceedings and orders, remedial action requirements and enforcement actions of any kind, suits, and costs and expenses thereof (including cost of defense, settlement, and reasonable attorneys' fees), which any or all of them may hereafter suffer, incur, be responsible for or pay out as a result of bodily injuries (including death) to any person, damage (including loss of use) to any property (public or private), contamination of or adverse effects on the environment, or any violation or alleged violation of statutes, ordinances, orders, rules or regulations of any governmental entity or agency, to the extent that CWM is required to indemnify and save harmless any and all of the indemnitees pursuant to Paragraph B of this Article VI.

Article VII - Insurance. CWM agrees to procure, maintain and continue in force during the entire period of this

Agreement, the below listed insurance. If a subcontractor is to be employed to perform any portion of the Work, the subcontractor likewise shall procure and maintain the below listed insurance.

Prior to commencing the performance of any service hereunder, CWM shall furnish evidence, in a form satisfactory to North Shore, of the following insurance coverage:

A. Workers' Compensation Coverage providing for statutory limits shall be procured. Alternatively, if CWM has been granted the privilege of self-insurance under the provisions of the Workers' Compensation Act and the Workers' Occupational Diseases Act of Illinois, CWM must submit a certificate so certifying that fact. Employer's Liability Insurance providing a minimum of $500,000 per person shall also be procured.

B. Comprehensive General Liability Insurance, under the terms of which the CWM is the insured party, shall be purchased in the amount of at least a $5,000,000 combined single limit per occurrence for liability on account of injury, death or property damage resulting from any one accident. Such insurance shall provide for premises, operations and independent subcontractor's coverage, including coverage for explosion, collapse and damage to underground facilities (XCU hazards), products and completed operations liability and contractual liability coverage specifically covering the liability assumed by CWM under this Agreement.

C. Evidence of third party liability insurance in an amount of at least $5,000,000 combined single limit per occurrence covering injury or damage incurred or alleged to be incurred by North Shore or others and relating to or arising from negligent acts or omissions in connection with the handling, removal, packaging, storage, transportation and disposal of the Waste Materials, including materials considered hazardous under federal or state laws relating to the protection of the environment.

D. Automobile Insurance in the amount of at least a $5,000,000 combined single limit per occurrence for liability on account of personal injury, death or property damage resulting from any one accident shall be purchased. Such insurance shall include transportation coverage as required by the Interstate Commerce Commission.

E. Contractor's pollution legal liability insurance, under the terms of which CWM is the insured party, shall be purchased in an amount of at least a $1,000,000 combined single limit per occurrence for pollution liability and defense coverage on account of bodily injury, property damage and environmental clean up costs resulting from any one accident at the Site.

F. Protective liability insurance (independent subcontractors) under which North Shore is the named insured, protecting North Shore from all liability for injuries to, or

the death of, any person, or for damage to, or loss of, property incurred or alleged to be incurred by North Shore or others and relating to or arising from the Work or the performance thereof by CWM shall be purchased in the amount of at least a $1,000,000 combined single limit per occurrence for liability on account of personal injury to, or death of, any person or persons or damage to or destruction of property resulting from any one accident with a total policy limit of at least $2,000,000 for all personal injury, death or property damage or destruction resulting from the Work done.

Coverage required by (A) through (E) shall be evidenced by certificate of insurance from companies satisfactory to North Shore, delivered to North Shore upon CWM's execution of this Agreement and thereafter from time to time at North Shore's request, showing the requisite liability limits and containing a clause obligating the insurer to provide North Shore with thirty (30) days' notice of cancellation or material change in coverage. Coverage required by (F) shall be evidenced by a policy from a company satisfactory to North Shore, showing the requisite liability limits and containing a clause obligating the insurer to provide North Shore with thirty (30) days' notice of cancellation or material change in coverage.

Nothing contained in this Article VII, and no limits on the amount or type of damages, compensation, or benefits payable under worker's or workmen's compensation acts,

disability benefit acts or other employee benefit acts, shall relieve CWM of its indemnity obligations hereunder. CWM shall promptly report in writing to North Shore all accidents, claims, suits, or threats of litigation arising out of or in connection with the performance of this Agreement.

Article VIII - EPA Off-Site Policy. In the event that the Disposal Facilities cannot accept the Waste Materials due to EPA's enforcement of the "off-site policy," CWM agrees to arrange for alternative disposal on the same terms and conditions, including but not limited to the price and indemnification provisions of this Agreement as if the Waste Materials were disposed of at the Disposal Facilities.

Article IX - Access. North Shore shall, prior to commencement of the Work, provide CWM with adequate means of ingress and egress to the Site necessary to perform the Work.

Article X - Design, Drawings and Instructions. North Shore shall be responsible for the adequacy, accuracy and sufficiency of any designs, drawings, surveys or specifications which have been or which will be supplied to CWM. North Shore has provided the Extent of Contamination Study, Request For Proposal (Exhibit "B" hereto) and AO (Exhibit "A" hereto) which adequately represent the Work to be performed under this Agreement.

Article XI - Order of Completion. CWM shall submit to North Shore bi-weekly reports which shall show the order in which CWM proposes to perform the Work with dates at which CWM

will start the several parts of the Work and the estimated dates of completion of the several parts.

Article XII - CWM Warranties. CWM warrants and represents to North Shore that:

A. Based upon the descriptions of the tar provided by North Shore, CWM understands the currently known hazards and risks which are presented to human beings, property and the environment in the handling, transportation, excavation, treatment, processing and disposal of the Waste Materials.

B. CWM is engaged in the business of performing site mitigation activities and of transporting, handling and disposing of industrial and other wastes and has developed the requisite expertise.

C. CWM will handle, load, stow, transport, store, treat and dispose of the Waste Materials in a safe and workmanlike manner and in full compliance with all valid and applicable statutes, ordinances, orders, rules and regulations of the federal, state and local governments in whose jurisdictions such activities are performed under this Agreement.

D. Any and all vehicles or vessels, Waste Materials, containers and personnel to be provided by CWM in the performance of this Agreement have obtained or will obtain all permits, licenses, certificates or approvals required to comply with valid and applicable statutes, ordinances, orders, rules and regulations of the federal, state and local governments.

E. The Disposal Facilities have each been issued, as of the date of execution of this Agreement, all permits, licenses, certificates or approvals, required by valid and applicable statutes, ordinances, orders, rules and regulations of the federal, state and local governments in which each is located, necessary to allow each facility to accept and store, treat, process and dispose of the Waste Materials.

Article XIII - Health and Safety. North Shore agrees to cooperate in the implementation of CWM's health and safety plan as it is finally approved by the EPA.

Article XIV - Inspections. North Shore shall have the right to inspect and obtain, at its expense, copies of all written licenses, permits or approvals, issued by any governmental entity or agency to CWM or its subcontractors which are applicable to the performance of this Agreement; to inspect and test, at its own expense, transportation vehicles or vessels, containers or disposal facilities provided by CWM; and to inspect the handling, loading, transportation, storage, treatment or disposal operations conducted by CWM in the performance of this Agreement. Such inspections are encouraged by CWM, but shall not operate to relieve CWM of its responsibilities or liabilities under this Agreement.

Article XV - Excuse of Performance. The performance of this Agreement, except for the payment of money for services already rendered, may be suspended by either party in the event

that the delivery of Waste Materials by North Shore, or transportation, storage, treatment or disposal of Waste Materials by CWM are prevented by a cause or causes beyond the reasonable control of such party. Such causes shall include, but not be limited to, acts of God, acts of war, riot, fire, explosion, accident, flood, or sabotage and such acts which cause lack of adequate fuel, power, raw materials, or transportation facilities; governmental laws, regulations, requirements, orders or actions; national defense requirements; injunctions or restraining orders; strike, lockout or injunction (provided that neither party shall be required to settle a labor dispute against its own best judgment).

The party asserting a right to suspend performance under this Section, must immediately, but no later than two (2) working days after it has knowledge of the effective cause, notify the other party of the cause for suspension, the performance suspended, and the anticipated duration of suspension. Upon receipt of such notice advising of a material or indefinite suspension of performance, and if such suspension substantially impairs the value of this Agreement to it, a party may, within a reasonable time (not to exceed thirty (30) days), terminate this Agreement.

The party asserting a right to suspend performance hereunder shall advise the other party when the suspending event has ended, and when performance will be resumed.

Provided, however, if title to Waste Materials has been transferred to CWM, CWM may not suspend performance of this Agreement with respect to such Waste Materials; however, if a performance-suspending event occurs after CWM has taken title to Waste Materials but before completion of performance, CWM may delegate such performance to any other persons lawfully permitted to transport, store, treat or dispose of the Waste Materials. In the circumstances described above, North Shore hereby consents to any necessary delegations for which it receives written notice from CWM. Such delegation shall not have any effect on CWM's responsibilities or liabilities under this Agreement regarding the Waste Materials.

Article XVI - Delegation and Assignment. CWM may at any time, with the prior written consent of North Shore, which consent shall not be unreasonably withheld, delegate, orally or in writing, the performance of the Work, or any portion thereof, which is by this Agreement undertaken by CWM. Any such delegation shall not operate to relieve CWM of its responsibilities hereunder and, notwithstanding any such delegation, CWM shall remain obligated to North Shore in these undertakings.

Either party may, at any time, upon written notice to the other party, assign its rights under this Agreement.

Article XVII - Termination by North Shore. This Agreement may be terminated at any time by North Shore upon five (5) days written notice to CWM. In the event North Shore

terminates this Agreement under this Article then CWM shall be paid reasonable demobilization costs.

Article XVIII - Independent Contractor. CWM is and shall perform this Agreement as an independent contractor, and as such, shall have and maintain complete control over all of its employees, agents and operations. Neither CWM nor anyone employed by it shall be, represent, act, purport to act or be deemed to be the agent, representative, employee or servant of North Shore.

Article XIX - Notice. Any notice, communication or statement required or permitted to be given hereunder shall be in writing and deemed to have been sufficiently given when delivered in person or by registered or certified mail, postage prepaid, return receipt requested, to the address of the respective party below:

North Shore: Patrick J. Doyle
Vice President
North Shore Gas Company
122 South Michigan Avenue
Room 1003
Chicago, Illinois 60603

CWM: Chemical Waste Management, Inc.
7250 West College Drive
Palos Heights, IL 60463
Attn: Contract Manager

Either party may, by notice to the other, change the addresses and names above given.

Article XX - Taxes. CWM shall be responsible for all taxes, tariffs, fees, surcharges or other charges upon the

transportation, storage, processing, treatment or disposal of the Waste Materials not specifically included in the Price Schedule, attached hereto as Exhibit "D."

Article XXI - Entire Agreement. This Agreement represents the entire understanding and agreement between the parties hereto relating to the transportation, storage, treatment, processing and disposal of Waste Materials and supersedes any and all prior agreements, whether written or oral, that may exist between the parties regarding same. No terms, conditions, prior course of dealings, course of performance, usage of trade, understandings, purchase orders, or agreement purporting to modify, vary, supplement or explain any provision of this Agreement shall be effective unless in writing, and signed by representatives of both parties authorized to amend this Agreement.

In no event shall the preprinted terms or conditions found on any CWM or North Shore's purchase or work order be considered an amendment or modification of this Agreement, even if such documents are signed by representatives of both parties; such preprinted terms or conditions shall be considered null and of no effect.

Article XXII - Waiver. Any waiver by either party of any provision or condition of this Agreement shall not be construed or deemed to be a waiver of any other provision or condition of this Agreement, nor a waiver of a subsequent

breach of the same provision or condition, unless such waiver be so expressed in writing and signed by the party to be bound.

Article XXIII - Miscellaneous. The validity, interpretation and performance of this Agreement shall be governed and construed in accordance with the laws of the State of Illinois.

All paragraph headings herein are for convenience only and are in no way to be construed as part of this Agreement or as a limitation of the scope of the particular sections to which they refer.

Article XXIV - Severability. If any section, subsection, sentence or clause of this Agreement shall be adjudged illegal, invalid or unenforceable, such illegality, invalidity or unenforceability shall not affect the legality, validity or enforceability of the Agreement as a whole or of any section, subsection, sentence or clause hereof not so adjudged.

Article XXV - Subcontractor's List. CWM shall furnish the names of all intended subcontractors to North Shore's Designated Engineer prior to the commencement of the project. CWM shall not sublet the project or any part thereof without the written consent of North Shore. In no event shall the letting of any subcontract by CWM result in relieving CWM of CWM's liability and obligations under this Agreement. CWM shall be liable for all the Work performed or omitted by any subcontractor as if the Work was performed or omitted by CWM.

Article XXVI - Annual Certificate of Compliance. During the performance of this Agreement, CWM agrees to comply with North Shore's Annual Certificate of Compliance/Equal Employment Opportunity, attached hereto as Exhibit "E."

Article XXVII - Counterparts. This Agreement may be executed in several counterparts, each of which shall be an original and all of which shall constitute one and the same document.

Article XXVIII - Successors in Interest. The covenants and agreements contained in this Agreement shall apply to, inure to the benefit of and be binding upon the parties hereon and upon their respective heirs, executors, administrators, assigns and successors in interest.

Article XXIX - Agreement Controls. The Exhibits shall be referred to for general information, however, in the event of a conflict between the Exhibits and this Agreement, the terms of this Agreement shall prevail in all respects.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives as of the day and year first above written.

NORTH SHORE GAS COMPANY

By: _____

Title: VICE PRESIDENT

CHEMICAL WASTE MANAGEMENT, INC.

By: _____

Title: General Manager

By and Between CWM and
North Shore dated
November 5, 1991

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN STREET
CHICAGO, IL 60604

SEP 05 1991

REPLY TO THE ATTENTION OF:
5HS-12

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Russ Selman
c/o Bell, Boyd & Lloyd
3 First National Plaza, Suite 2900
Chicago, IL 60602

Re: Waukegan Tar Pit

Dear Sir or Madam:

Enclosed please find a unilateral Administrative Order issued by the U.S. Environmental Protection Agency (EPA) under Section 106 of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (CERCLA), 42 U.S.C. Section 9601, et seq.

Please be advised that upon signature by the Director of Waste Management, this Unilateral Administrative Order will vacate and supercede the Unilateral Administrative Order issued on July 30, 1991.

If you have any questions regarding the Order, feel free to contact Sean Mulroney, Assistant Regional Counsel, at (312) 886-7150 or Cindy Nolan, On-Scene Coordinator, at (312) 886-6246.

Sincerely yours,

David A. Ullrich

David A. Ullrich, Director
Waste Management Division

Enclosure

cc: William Radlinski
Illinois Environmental Protection Agency

Printed on Recycled Paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

| | | |
|---|---|---|
| IN THE MATTER OF: | ) | Docket No. V-W-'91-C-115 |
| | ) | |
| WAUKEGAN TAR PIT SITE | ) | ADMINISTRATIVE ORDER |
| | ) | PURSUANT TO SECTION 106 |
| | ) | OF THE COMPREHENSIVE |
| | ) | ENVIRONMENTAL RESPONSE, |
| Respondents: | ) | COMPENSATION, AND |
| | ) | LIABILITY ACT OF 1980 |
| NORTH SHORE GAS COMPANY | ) | as amended, 42 U.S.C. |
| ELGIN, JOLIET & EASTERN RAILWAY CO | ) | Section 9606(a) |
| NORTH SHORE SANITARY DISTRICT | ) | |

## PREAMBLE

This Administrative Order (Order) is issued on this date to Respondents, North Shore Gas Company; Elgin,Joliet & Eastern Railway Company; and North Shore Sanitary District.

It is issued pursuant to the authority vested in the President of the United States by Section 106(a) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. Section 9606(a), as amended by the Superfund Amendments and Reauthorization Act of 1986 Pub. L. 99-499 (CERCLA), and delegated to the Administrator of the United States Environmental Protection Agency (U.S. EPA) by Executive Order No. 12580, January 23, 1987, 52 Federal Register 2923, and further delegated to the Assistant Administrator for Solid Waste and Emergency Response and the Regional Administrators by U.S. EPA Delegation Nos. 14-14-A and 14-14-B, and to the Director, Waste Management Division, Region V, by Regional Delegation 14-14-A and 14-14-B.

By copy of this Order the State of Illinois has been notified of the issuance of this Order as required by Section 106(a) of CERCLA, 42 U.S.C. Section 9606(a).

This Order requires the Respondents to undertake and complete emergency removal activities to abate an imminent and substantial endangerment to the public health and welfare or the environment that may be presented by the actual or threatened release of hazardous substances at the site.

## FINDINGS

Based on available information, including the Administrative Record in this matter, U.S. EPA hereby finds:

1. The Waukegan Tar Pit Site (Site) is located in the northeast quadrant of a vacant lot bounded on the north by Dahringer Road, on the west by Pershing Road, on the east by the Elgin, Joliet & Eastern Railway Company (EJ&E) line, and on the south by a parcel of land owned by the City of Waukegan. The Site is situated in an industrial area and is now bounded on all sides by a fence.

2. Currently, a portion of the Site is owned by the North Shore Sanitary District (NSSD) and a portion is owned by EJ&E. Previously, the property was divided into two parcels, the eastern parcel was owned by EJ&E and the western parcel was owned by North Shore Gas Company (NSG). NSG operated a coal gasification plant on the western portion of the Site. The plant has since been demolished.

3. In July of 1988, the local fire department and the Illinois Environmental Protection Agency (IEPA) responded to a fire on a pit located in the northeastern portion of the property described above. Samples of the tar collected by the IEPA indicated the presence of volatile organic compounds with a flash point of 60 degrees Fahrenheit. Based on the Illinois Emergency Services Disaster Agency (ESDA) report dated July 13, 1988 the IEPA determined that, at that time, there were no public safety concerns at the tar pit.

4. In 1990, the U.S. EPA received reports from private citizens that migrating waterfowl and other wildlife were becoming trapped and dying in the tar. The U.S. Fish and Wildlife Service was also investigating these reports.

5. A site assessment was performed by the U.S. EPA and Technical Assistance Team (TAT) in September 1990. A pond approximately 125 feet long by 60 feet wide was observed in the northeastern portion of the site. The pond consisted of 4 to 6 inches of water overlying a pit of tar of unknown depth. The U.S. EPA and TAT observed stressed vegetation and tar oozing to the soil surface beyond the visible boundaries of the pond. Samples collected from the tar and water indicate the presence of high levels of volatile organic compounds including benzene. A tar sample collected north of the pond had a flash point of 72 degrees Fahrenheit.

6. The potentially responsible parties (PRPs); NSSD, NSG, and EJ&E, were given verbal notification on September 19, 1990 by the U.S. EPA to restrict access to the Site including the tar pit by humans and wildlife and took prompt action on September 20, 1990 to install a fence to enclose the property and string flags across the pond to deter migrating blue heron and other waterfowl from landing. The fence was completed on September 28, 1990.

7. On March 11, 1991 an Administrative Order by Consent was issued to the potentially responsible parties (PRPs). The Order required the Respondents to conduct an extent of contamination study to define the vertical and lateral extent of hazardous substances in the tar pit.

8. Pursuant to the Administrative Order by Consent issued on March 11, 1991, the PRPs submitted an extent of contamination study. The PRPs found that the flowable tar in the tar pit has a flash point of greater than 200 degrees Fahrenheit. Total Polynuclear Aromatic Hydrocarbons (PAHs) are 120,000 milligrams per kilogram (mg/kg). The highest single component, naphthalene was found as 32,000 mg/kg. Volatile Organic Compounds (VOCs) including benzene (79 mg/kg), ethyl benzene (65 mg/kg), toluene (130 mg/kg) and xylene (130 mg/kg) were found. In one of two composite soil samples, the TCLP for benzene was at 14.0 milligrams per liter (mg/l). The volume of the tar was estimated to be approximately 1,300 cubic yards, the specific gravity was estimated at 1.185 and the estimated weight was 2.6 million pounds.

## DETERMINATIONS

Based on the foregoing Findings, U.S. EPA has determined that:

1. Waukegan Tar Pit is a "facility" as defined by Section 101(9) of CERCLA, 42 U.S.C. Section 9601(9).

2. Each Respondent is a "person" as defined by Section 101(21) of CERCLA, 42 U.S.C. Section 9601(21).

3. Each Respondent arranged for disposal or transport for disposal of hazardous substances at the Waukegan Tar Pit Site, or is a past or present owner or operator of the facility. Each Respondent is therefore a liable person under Section 107(a) of CERCLA, 42 U.S.C. Section 9607(a).

4. Volatile organic compounds, including benzene, are "hazardous substances" as defined by Section 101(14) of CERCLA, 42 U.S.C. Section 9601(14).

5. For the purpose of removal activities in number 5 of the Order section in this Order, tar is defined as the analytical detection of total polyaromatic hydrocarbons (PAHs), carcinogenic PAHs categorized as A, B1, B2, volatile organic compounds (VOCs) to include the following: VOCs detected in tar samples to date and additional VOCs detected in future tar sampling; benzene, ethylbenzene, toluene, xylenes (total), methylene chloride, acetone, 2-Butanone and styrene attributable to the pit, and is a "hazardous substance" as defined by Section 101(14) of CERCLA, 42 U.S.C. Section 9601(14). For the purpose of removal activity 4 in this Order, tar will be defined as visible free tar. Visible free tar is defined as tar which is free of soil including soft and hard tar.

6. Low flash substances on the site, the presence of hazardous substances including benzene, and the actual or threatened release to drinking water constitutes an actual or threatened "release" as that term is defined in Section 101(22) of CERCLA, 42 U.S.C. Section 9601(22).

7. The actual or threatened release of hazardous substances from the Facility may present an imminent and substantial endangerment to the public health, welfare, or the environment.

8. The actions required by this Order, if properly performed, are consistent with the National Contingency Plan (NCP), 40 CFR Part 300, as amended, and CERCLA, and are reasonable and necessary to protect the public health, welfare and the environment.

9. The conditions present at the Facility constitute a threat to public health or welfare or the environment based upon consideration of the factors set forth in the NCP, Section 300.415(b)(2). These factors include, but are not limited to, the following:

a. **actual or potential exposure to hazardous substances by nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;**

This factor is present at the Facility due to the existence of elevated levels of organic compounds, including benzene, in the tar. Until September 28, 1990, access was unrestricted. Migratory water fowl, including blue herons, have died as a result of becoming trapped in the tar. Despite the existence of a fence at the site, other forms of wildlife may use the pond as a drinking water source. Vegetation surrounding the pit has been stressed.

b. **actual or potential contamination of drinking water supplies or sensitive ecosystems;**

This potential for contamination is present at the Facility due to the existence of groundwater at approximately three and one half feet beneath the surface of the pit. The suspected depth of the pit is at least three feet. Groundwater flow is toward Lake Michigan, a drinking water source. Organics contained in the pit may leach into the groundwater and subsequently migrate into Lake Michigan.

c. **weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released;**

This factor is present at the Facility due to the potential existence of excessive heat in the summer which has caused the tar to migrate to the soil surface. This migration combined with excessive heat create the potential for the release of volatile organic contaminants into the air.

d. **threat of fire or explosion;**

This factor is present at the Facility due to the existence of the low flashpoint of 72 degrees Fahrenheit tar on the site. A Waukegan Fire Department report indicates that the pit caught fire in July of 1988. The report describes a great volume of black smoke emanating from the fire. IEPA, responded to the fire and collected tar samples which had a flash point of 60 degrees Fahrenheit.

## ORDER

Based upon the foregoing Findings and Determinations, and pursuant to Section 106(a) of CERCLA, 42 U.S.C. Section 9606(a), it is hereby Ordered that Respondents undertake the following actions at the Facility:

1. On or before September 12, 1991, the Respondents shall submit to U.S. EPA for approval, a Work Plan (WP1) for the removal activities ordered as set forth in Paragraph 4 below. WP1 shall provide a concise description of the activities to be conducted to comply with the requirements of this Order as well as a schedule for implementation. WP1 shall also describe alternatives for storing the free tar on site until disposal. WP1 shall be reviewed by U.S. EPA, which may approve, disapprove, require revisions, or modify WP1 including the requirement for storage of free tar on the site. Respondents shall implement WP1 as finally approved by U.S. EPA.

Once approved, the Work Plan shall be deemed to be incorporated into and made a fully enforceable part of this Order. WP1 shall include a separate outline for the Extent of Contamination (EOC) Study including a schedule for submittal of the EOC Study Work Plan (WP2), and initiation and completion of the EOC Study as outlined in Paragraph 5 below.

2. WP1 and WP2 shall contain a site safety and health plan, a sampling and analysis plan, and a schedule of the work to be performed. The site safety and health plan shall be prepared in accordance with the Occupational Safety and Health Administration (OSHA) regulations applicable to Hazardous Waste Operations and Emergency Response, 29 CFR Part 1910. WP1 and WP2 and other submitted documents shall demonstrate that the Respondent can properly conduct the actions required by this Order.

3. Respondents shall retain a contractor qualified to undertake and complete the requirements of this Order, and shall notify U.S. EPA of the name of such contractor within five (5) business days of the effective date of this Order. U.S. EPA retains the right to disapprove of any, or all, of the contractors and/or subcontractors retained by the Respondents. In the event U.S. EPA disapproves of a selected contractor, Respondents shall retain a different contractor to perform the work, and such selection shall be made within two (2) business days following U.S. EPA's disapproval.

4. Within seven (7) calendar days after U.S. EPA approval of WP1 as discussed in Paragraph 1,, Respondents shall implement the Work Plan as approved or modified by U.S. EPA. Failure of the Respondents to properly implement all aspects of WP1 shall be deemed to be a violation of the terms of this Order. WP1 shall require the Respondents to perform, and complete within ninety (90) calendar days after approval, at a minimum, the following removal activity:

- Remove all visible free tar. Within three (3) business days of the completion of the removal of the visible free tar, the OSC or her designated alternate will inspect the site and determine compliance with the requirement.

5. Respondents shall also conduct an extent of contamination study in accordance with the schedule in the U.S. EPA approved Work Plans. The Respondents shall accurately determine the extent of contamination of the tar, as defined in paragraph 5 of the determinations section, from the tar pit to the surrounding property, including soil and groundwater media.

6. All materials containing hazardous substances, pollutants or contaminants removed pursuant to this Order shall be disposed of or treated at a facility approved by the On-Scene Coordinator and in accordance with the Resource Conservation and Recovery Act of 1976 (RCRA), 42 U.S.C. Section 6901, et seq., as amended, the U.S. EPA Revised Off-Site Policy, and all other applicable Federal, State, and local requirements.

7. On or before the effective date of this Order, the Respondents shall designate a Project Coordinator. To the greatest extent possible, the Project Coordinator shall be present on site or readily available during site work. The U.S. EPA has designated Cindy Nolan of the Emergency and Enforcement Response Branch, Response Section II, as its On-Scene Coordinator. The On-Scene Coordinator and the Project Coordinator shall be responsible for overseeing the implementation of this Order. To the maximum extent possible, communication between the Respondents and the U.S. EPA, and all documents, reports and approvals, and all other correspondence concerning the activities relevant to this Order, shall be directed through the On-Scene Coordinator and the Project Coordinator.

8. The U.S. EPA and the Respondents shall each have the right to change their respective designated On-Scene Coordinator or Project Coordinator. U.S. EPA shall notify the Respondents, and Respondents shall notify U.S. EPA, as early as possible before such a change is made, but in no case less than 24 hours before such a change. Notification may initially be verbal, but shall promptly be reduced to writing.

9. The U.S. EPA On-Scene Coordinator shall have the authority vested in an On-Scene Coordinator by the NCP, 40 CFR Part 300, as amended, including the authority to halt, conduct, or direct any work required by this Order, or to direct any other response action undertaken by U.S. EPA or the Respondents at the facility.

10. No extensions to the above time frames shall be granted without sufficient cause. All extensions must be requested, in writing, and shall not be deemed accepted unless approved, in writing, by U.S. EPA.

11. This Order and all instructions by the U.S. EPA On-Scene Coordinator or her designated alternate that are consistent with the National Contingency Plan and this Order shall be binding upon the Respondents.

12. To the extent that the Facility or other areas where work under this Order is to be performed is owned by, or in possession of someone other than the Respondents, Respondents shall obtain all necessary access agreements. In the event that Respondents are unable to obtain such agreements, Respondents shall immediately notify U.S. EPA. U.S. EPA may then assist Respondents in gaining access, to the extent necessary to effectuate the response activities described herein, using such means as it deems appropriate.

13. Respondents shall provide access to the Facility to U.S. EPA employees, contractors, agents, and consultants at reasonable times, and shall permit such persons to be present and move freely in the area in order to conduct inspections, including taking photographs and videotapes of the Facility, to do cleanup/stabilization work, to take samples to monitor the work under this Order, and to conduct other activities which the U.S. EPA determines to be necessary.

14. Nothing contained herein shall be construed to prevent U.S. EPA from seeking legal or equitable relief to enforce the terms of this Order, or from taking other legal or equitable action as it deems appropriate and necessary, or from requiring the Respondents in the future to perform additional activities pursuant to CERCLA, 42 U.S.C. Section 9601 et seq., or any other applicable law.

15. This Order shall be effective seven (7) calendar days following issuance.

16. On or before seven (7) calendar days of the effective date of this Order, Respondents shall provide notice, verbally or in writing, to U.S. EPA stating their intention to comply with the terms of this Order. Verbal notification must be followed in writing within three (3) business days. In the event any Respondents fail to provide such notice, those Respondents shall be deemed not to have complied with the terms of this Order.

17. Copies of all records and files relating to hazardous substances found on the site shall be retained for six years following completion of the activities required by this Order and shall be made available to the U.S. EPA prior to the termination of the removal activities under this Order.

18. Respondents shall provide a written bi-weekly progress memorandum to the On-Scene Coordinator regarding the actions and activities undertaken under this Order. At a minimum, these progress memorandum shall describe the actions that have been taken to comply with this Order, including all results of sampling and tests received or prepared by the Respondents and shall describe all significant work items planned for the next month.

19. The Respondents shall submit a final report summarizing the actions taken to comply with this Order. The report shall contain, at a minimum: identification of the facility, a description of the locations and types of hazardous substances encountered at the facility upon the initiation of work performed under this Order, a chronology and description of the actions performed (including both the organization and implementation of response activities), a listing of the resources committed to perform the work under this Order (including financial, personnel, mechanical and technological resources), identification of all items that affected the actions performed under the Order and discussion of how all problems were resolved, a listing of quantities and types of materials removed, a discussion of removal and disposal options considered for those materials, a listing of the ultimate destination of those materials, and a presentation of the analytical results of all sampling and analyses performed and accompanying appendices containing all relevant paperwork accrued during the action (e.g., manifests, invoices, bills, contracts, permits). The final report shall also include an affidavit from a person who supervised or directed the preparation of that report. The affidavit shall certify under penalty of law that based on personal knowledge and appropriate inquiries of all other persons involved in preparation of the report, the information submitted is true, accurate and complete to the best of the affiant's knowledge and belief. The report shall be submitted within thirty (30) calendar days of completion of the work required by the U.S. EPA.

20. All notices, reports, memorandums and requests for extensions submitted under terms of this Order shall be sent by certified mail, return receipt requested, and addressed to the following:

one copy — Cindy Nolan
On-Scene Coordinator
U.S. EPA (5HS-12)
230 South Dearborn Street
Chicago, Illinois 60604

one copy Sean Mulroney
Assistant Regional Counsel
U.S. EPA (5CS-TUB-3)
230 South Dearborn Street
Chicago, Illinois 60604

21. If any provision of this Order is deemed invalid or unenforceable, the balance of this Order shall remain in full force and effect.

## ACCESS TO ADMINISTRATIVE RECORD

The Administrative Record supporting the above Determinations and Findings is available for review on normal business days between the hours of 9:00 a.m. and 5:00 p.m. in the Office of Regional Counsel, United States Environmental Protection Agency, Region V, 111 W. Jackson Blvd., Third Floor, Chicago, Illinois. Please contact Sean Mulroney, Assistant Regional Counsel, at (312) 886-7150 to review the Administrative Record. An index of the Administrative Record is attached hereto.

## OPPORTUNITY TO CONFER

With respect to the actions required above, Respondents may within five (5) business days after issuance of this Order, request a conference with the U.S. EPA. Any such conference shall be held within fourteen (14) calendar days from the date of request unless extended by mutual agreement of the parties. At any conference held pursuant to the request, Respondents may appear in person, or be represented by an attorney or other representative. If any Respondent desires such a conference, the Respondent shall contact Sean Mulroney, Assistant Regional Counsel, at (312) 886-7150. If such a conference is held, Respondents may present any evidence, arguments or comments regarding this Order, its applicability, any factual determinations upon which the Order is based, the appropriateness of any action which Respondents are ordered to take, or any other relevant and material issue. Any such evidence, arguments or comments should be reduced to writing and submitted to U.S. EPA within seven (7) calendar days following the conference. If no conference is requested, any such evidence, arguments or comments must be submitted in writing within seven (7) calendar days following the receipt of this Order. Any such writing should be directed to Sean Mulroney, Assistant Regional Counsel, at the address cited above.

Respondents are hereby placed on notice that U.S. EPA will take any action which may be necessary in the opinion of U.S. EPA for the protection of public health and welfare and the environment, and Respondents may be liable under Section 107(a) of CERCLA, 42 U.S.C. Section 9607(a), for the costs of those government actions.

## PENALTIES FOR NONCOMPLIANCE

Respondents are advised pursuant to Section 106(b) of CERCLA, 42 U.S.C. Section 9606(b), that willful violation or subsequent failure or refusal to comply with this Order, or any portion thereof, may subject the Respondents to a civil penalty of no more than $25,000 per day for each day in which such violation occurs, or such failure to comply continues. Failure to comply with this Order, or any portion thereof, without sufficient cause may also subject the Respondents to liability for punitive damages in an amount three times the amount of any cost incurred by the government as a result of the failure of Respondents to take proper action, pursuant to Section 107(c)(3) of CERCLA, 42 U.S.C. Section 9607(c)(3).

By: David A. Ullrich

David A. Ullrich, Director
Waste Management Division
United States Environmental
Protection Agency
Region V

September 4, 1991

## RECIPIENTS OF 106 UNILATERAL ORDER

North Shore Sanitary District
c/o Murray Conzelman
P.O. Box 750
Gurnee, Illinois 60031

North Shore Sanitary District
c/o Melissa Wynne
Gardner, Carton & Douglas
Quaker Tower
Suite 3400
321 North Clark Street
Chicago, Illinois 60610-4795

North Shore Gas Company
c/o Bell Boyd & Lloyd
Attn: Russ Selman
3 First National Plaza
Suite 2900
Chicago, Illinois 60602

Elgin, Joliet and Eastern Railway Company
c/o Alice C. Saylor, General Attorney
P.O Box 68
135 Jamison Lane
Monroeville, Pennsylvania 15146

Elgin Joliet and Eastern Railway Company
c/o Andrew Stewart Armstrong
Director Real Estate and Industrial Development
P.O. Box 880
Joliet, Illinois 60434

ADMINISTRATIVE RECORD
FOR
WAUKEGAN TAR PITS

Waukegan, Il.

October 12, 1990

| DATE | AUTHOR | RECIPIENT | TITLE/DESCRIPTION | PAGES |
|---|---|---|---|---|
| 07/13/88 | Waukegan Fire Dept. | U.S.EPA | Fire incident report | 2 |
| 07/13/88 | IESDA | U.S.EPA | Incident report | 1 |
| 09/06/90 | Nolan, C., U.S.EPA | File | Trip report | 2 |
| 09/20/90 | Daily Herald newspaper | Community | Newspaper article | 1 |
| 09/20/90 | Southern Illinoisan newspaper | Community | Newspaper article | 1 |
| 09/21/90 | Chicago Tribune | Community | Newspaper article | 1 |
| 09/30/90 | Randolph & Assoc., Inc. | IEPA | Analytical data | 11 |
| 10/01/90 | O'Mara, M., U.S.EPA | Bowden, R., U.S.EPA | Polrep 1 | 1 |
| 10/03/90 | EMS Heritage Labs, Inc. | Weston, Inc. | Analytical data | 18 |
| 10/10/90 | Weston, Inc. | U.S.EPA | Site assessment | 16 |

UPDATE

February 14, 1991

| | | | | |
|---|---|---|---|---|
| 11/23/90 | O'Mara, M., EERB | Bowden, R., EERB | Action Memorandum | 9 |

UPDATE

May 21, 1991

| | | | | |
|---|---|---|---|---|
| 09/30/88 | Rozeboom, M., Randolph & Associates | Doubet. S.. IEPA | Soil/Waste Sample | 11 |
| 10/01/90 | Espinoza, E., U.S. Dept. of the Interior | | Criminalistics Examination Report | 1 |
| 03/12/91 | Dalen. L., Barr Engineers Co. | O'Mara. M.. U.S. EPA | Initial Investigation Findings | 14 |
| 05/00/91 | Dalen. L.. Barr Engineering Co. | | Extent of Contamination Report | 152 |
| 05/07/91 | Wendel. J., E & E | O'Mara, M.. U.S. EPA | Sample Analytical | 26 |
| 05/11/91 | Respondents | Ullrich, D., U.S. EPA | Administrative Order By Consent | 19 |
| 00/00/00 | | | TAT Report(Pending) | |

By and Between CWM and
North Shore dated
November 5, 1991

# Request for Proposal
# Free Tar Removal and Disposal
# The Waukegan Tar Pit Site
# North Shore Gas Company

October 10, 1991

## I. Introduction

The North Shore Gas Company ("North Shore") is seeking a contractor(s) to remove, transport, and dispose of hazardous waste located at the Waukegan Tar Pit Site in Waukegan, Illinois. This project is being undertaken in response to a Unilateral Administrative Order ("UAO") issued by the United States Environmental Protection Agency ("USEPA") on September 5, 1991. The UAO requires removal of all "visible free tar" within ninety (90) calendar days after approval of a Work Plan (WPI). The Work Plan submitted to the USEPA is attached as Exhibit A.

Bidders will be considered the General Contractor for the work and will be responsible for all activities either individually or through the use of subcontractors. A list of disposal facilities which have been approved by the USEPA has been provided (as Exhibit B) to assist in facilitating the bid procedure. The Elgin, Joliet, and Eastern Railway ("EJ&E") track adjacent to the site may be available for transportation of the material. Mr. Andrew Armstrong of the EJ&E (815/740-6648) can be contacted for further information.

North Shore's consultant, Barr Engineering Company of Minneapolis, MN, has estimated the volume of visible free tar in the pit at the site is approximately 250,000 gallons. "Visible free tar" is defined in the UAO as "tar which is free of soil including soft and hard tar". Removal and disposal of small quantities of materials other than free tar is also anticipated as part of this contract. USEPA has categorized the tar as a RCRA D018 hazardous waste.

## II. Project

### A. Objectives

The project should be designed to meet the following objectives:

- Achieve compliance with the UAO.
- Remove within 90 days all visible free tar from the tar pit to the satisfaction of North Shore.
- Transport and dispose of the tar in a USEPA approved manner. This activity is permitted to exceed the UAO 90 day removal requirement, but should be completed according to the schedule in the Work Plan.

### B. Work Tasks and Assumptions

In addition to the items enumerated in the Work Plan, the following tasks are anticipated:

1. Submit on-site contractor site safety plan for USEPA approval.

2. Mobilization. Establish staging areas and decontamination zones on site. North Shore's on-site supervision must be provided field office space and separate telephone/fax facilities throughout the duration of the on-site work.

3. Remove approximately 60,000 - 100,000 gallons of potentially contaminated water from the surface of the tar pit and treat as needed for disposal in a municipal sanitary sewer system. Treatment will include oil/water separation and carbon treatment.

4. Remove approximately 250,000 gallons of free tar from the tar pit. The pit is approximately 15,800 square feet in area with free tar up to 3 feet deep. Further information on the volume of tar in the pit is available in the Extent of Contamination Study attached as Exhibit C.

5. Equipment access for removal of tar from the center of the pit must be addressed for vacuuming, pumping, or excavating operations.

6. Due to a very shallow water table at the site, it is assumed substantial quantities of groundwater may enter the pit during the tar removal process. This water will require treatment before disposal to a municipal sanitary sewer system. The volume of water entering the pit may be dependent on the method and duration of the tar removal.

7. The disposal of approximately 400 cubic yards of tar coated debris encountered in and around the pit must be addressed.

8. After or during the removal of the tar, a 60 mil high density polyethylene liner keyed into a perimeter berm will be installed to eliminate surface water run on/off. The contractor shall provide the liner and any sand padding that may be required, and install the liner and berm in a manner approved by North Shore and the USEPA OSC.

9. USEPA approved transportation methods shall be used for hazardous materials removed from the site.

10. Demobilization.

11. The materials will be disposed of at USEPA approved facilities that are in compliance with the CERCLA off-site program, and are permitted to treat, store, and/or dispose of RCRA hazardous wastes.

## II. C. Contingencies

The following contingencies should be addressed:

1. The tar pit most likely contains layers or areas of varying viscosity tar, ranging from flowable free tar to hard, solid tar. Cold weather will also effect the viscosity of the tar. In addition, tar/soil mixtures may be encountered in the greater volume of free tar or because of excavation techniques, and will require removal. Therefore, removal, processing, transportation, and disposal options must anticipate materials ranging in consistency from flowable free tar, through tar with grit, to soil/tar mixtures. While fuel blending is the preferred disposal method for the free tar, the contractor must arrange for disposal of some material (debris, protective clothing, soil/tar mixtures that are predominantly soil, etc.) by incineration or landfilling as directed by North Shore.

2. Tar and other materials may be stored on site either as an integral part of the removal method, or to meet the UAO's 90 day removal requirement. USEPA must approve the storage method.

3. The municipal sanitary district may not allow disposal of the treated waste waters into the sanitary sewer system. An approved alternate disposal method may be required.

## III. Response to RFP

### A. General

All bidders must arrange for a site visit and attend the contractors pre-bid meeting prior to submitting their proposal. Each bidder is requested to submit six (6) copies of the proposal to:

Mr. Patrick J. Doyle
Vice President, Operations
The Peoples Gas Light and Coke Company
122 South Michigan Avenue
Room 1003
Chicago, IL 60603
Telephone: 312/431-4810

All questions and inquiries concerning the RFP should also be directed to Mr. Doyle.

Proposals are due by 5:00 pm CDST 10/15/91. We expect to choose a firm by 10/18/91, and begin mobilization by 10/22/91.

III. B. Format (continued)

In responding to this request, the bidders proposal shall provide:

1. A detailed narrative describing the proposed method of accomplishing items described in the Work Plan and listed above in Parts IIB (Work Tasks and Assumptions), and IIC (Contingencies),

2. A list and description of all equipment to be used,

3. A detailed work sequence and schedule corresponding to the schedule in the Work Plan,

4. A cost estimate on a lump sum or a unit cost basis for each task. Payment will be on the basis of actual units handled (See Exhibit D),

5. A description of any other problems the bidder might anticipate that are not described in the RFP, and the methods that may be used to resolve such problems. Pricing for such contingencies should be included on either a lump sum or unit price in accordance with Exhibit D,

6. A complete schedule of rates for personnel and equipment. Unforseen additional work not covered by lump sum or unit prices may be handled on a time and equipment basis,

7. A description of the firm's experience with Superfund Sites,

8. A list of the project team and their qualifications, and

9. A list of relevant private and governmental clients.

C. Insurance, Indemnification, and Contract Requirements

In addition to the above, the contractor must fulfill the requirements of the contract, specifically the insurance and idemnification clauses as shown in the attached Exhibit E.

D. Evaluation Criteria

The evaluation of contractors will be based on information derived from interviews, the response to the RFP, and opinions obtained from references provided by the firm. The criteria used for evaluation will include, but not be limited to the following:

- Knowledge of and experience at Superfund Sites
- Project design
- Cost effectiveness
- Availability of firm's resources
- Qualifications of project team
- Flexibility to meet contingencies
- Ability to meet contract requirements
- Approval of on-site contractor Site Safety Plan

Attachs.



DOC. 5105Q
10/08/91/JPicha

Example Format of
Contractor Pricing Proposal

| Task | Description | Est. Quantity | Units | Unit Price |
|---|---|---|---|---|
| 1. | Safety Plan | 1 | Lump Sum | _____ |
| 2. | Mobilization | 1 | Lump Sum | _____ |
| 3. | Pit Surface Water | 60,000 | Gallon | |
| | a. Oil/Water Separation | | Gallon | _____ |
| | b. Carbon Treatment | | Gallon | _____ |
| 4. | Free Tar Removal | 250,000 | Gallon | |
| | a. Pump or Vacuum | | Gallon | _____ |
| | b. Excavate | | CY | _____ |
| 5. | Pit Groundwater | | | |
| | a. Oil/Water Separation | | Gallon | _____ |
| | b. Carbon Treatment | | Gallon | _____ |
| 6. | Debris Disposal | 400 | CY | _____ |
| 7. | Berm | | LF | _____ |
| | Liner | | SF | _____ |
| 8. | Material Transportation To Disposal Facilities | | | |
| | a. Fuel Blending | | Gallon | _____ |
| | b. Incineration | | BBL | _____ |
| | c. Land Fill | | CY | _____ |
| 9. | Demobilization | | Lump Sum | _____ |
| 10. | Material Disposal | | | |
| | a. Fuel Blending | | Gallon | _____ |
| | b. Incineration | | BBL | _____ |
| | c. Landfill | | CY | _____ |
| 11. | Off-Site Water Treatment | | Gallon | _____ |
| 12. | Other Contingencies | | | _____ |
| | | | | _____ |
| | | | | _____ |
| | | | | _____ |
| | | | | _____ |

Exhibit "C" to Agreement
By and Between CWM and
North Shore dated
November 5, 1991

SECTIONS 2, 3, 5, AND 7 OF CWM'S PROPOSAL

## 2.0 INTRODUCTION

CWM-ENRAC has reviewed the Removal Work Plan dated October 7, 1991 prepared by Barr Engineering, and broken down the project into the following major tasks:

- Preparation of a Site Specific Health and Safety Plan.
- Surface Water Removal and Treatment
- Removal of Tar from the Pit
- Solidification of Tar with Flyash
- Installation of a HDPE Liner System
- Transportation and Disposal of Solidified Tar Material

CWM-ENRAC has reviewed the bid solicitation information and has compiled the following project pertinent information:

- All Waste to be Disposed Off-site is Considered RCRA Regulated material with EPA Hazardous Waste Code D018.

- All site activities are to be performed and completed within the time frame of ninety (90) Calendar days.

The following proposal sections detail CWM-ENRAC's approach to the project, structure the associated project pricing, and expand on CWM-ENRAC's experience base and the benefits of utilizing CWM-ENRAC for this remedial project.

## 3.0 SCOPE OF WORK

### 3.1 Summary

CWM-ENRAC has developed the following Scope of Work which details the major tasks required in completing this project. All project work will be performed at the pricing indicated in Section 4.0 of this proposal.

The main project tasks are identified as follows:

3.2 Preparation of Site Specific Health and Safety Plan (HSP)
3.3 Mobilization to Site
3.4 Surface Water Removal and Treatment
3.5 Removal of Tar and Solidification
3.6 Installation of 60 mil HDPE Liner
3.7 Demobilization

### 3.2 Preparation of Site Specific Health and Safety Plan (HSP)

Upon award of contract, CWM-ENRAC's Project Manager and Site Safety Officer will initiate the compilation of the Health and Safety Plan. A preliminary Site Safety Plan is attached for your review.

Copies of Health and Safety Plan will be provided to the PRP Committee and Region V U.S. EPA for review and approval, prior to mobilization to site.

### 3.3 Mobilization

Following the approval of the HSP, CWM-ENRAC will mobilize the following resources as required for the on-site activities.

**Personnel:** Project Manager
Site Safety Officer/Chemist
(2) Heavy Equipment Operators
(2) Field Technicians

**Equipment:** CAT 225 Backhoe or Equivalent
Kobelco 909 Long Reach Backhoe or Equivalent
Front End Loader
Pumps and Hoses
Pressure Washer
Portable Truck Scales
Air Monitoring Equipment
Pickup Trucks
Decontamination Facilities

**Materials:** Field Office Trailers
Plastic Liner
Personal Protective Gear
Portable Toilet
Lime Kiln Dust

After mobilization to the site, the preparation of the site will include the set-up of all site support facilities such as the field office trailer and the decontamination trailer. A gravel haul road will be constructed form the entrance gate on the north side of the site to the loading area. The utilization of approximately 120 tons of CA-6 type road gravel is anticipated for the haul road construction.

### 3.4 Surface Water Removal and Treatment

Upon mobilization to the site, surface water treatment system will be set-up to treat the water present in the tar pit. The treatment system will consist of an oil/water separator or a bag filter unit equipped with oil absorbent filter bags. One 2,000 pound carbon column will be utilized as a final polishing step after the oil/water separation. The effluent from the carbon column will be retained in a 20,000 gallon frac tank for the purpose of effluent

sampling to be performed by U.S. EPA's onsite coordinator. Once the permission is obtained from the North Shore Sanitary District (NSSD) treatment facility, the effluent will then be discharged into the sanitary sewer.

This treatment system will be utilized to manage any groundwater that may enter the pit during excavation activities. Any oil phase retained in the oil water separator or in the bag filters will be disposed of with the tar material.

### 3.5 Removal of Tar and Solidification

Upon completion of the surface water removal from the pit, tar removal and solidification activities will be initiated. Prior to tar removal, three 30 to 40 cubic yard rolloff containers will be staged around the western perimeter of the pit. The containers will be offset from the edge of the pit to allow sufficient space for the tar excavating backhoe to maneuver around the pit. The locations of the containers will vary with the removal activities and precautions will be taken to minimize spillage of tar during excavation on native soil.

A Kobelco 909 (or equivalent type), backhoe equipped with a long reach (60 foot) excavating arm will be utilized for the excavation of tar. The removal will start from the center of the pit and proceed radially outward to minimize groundwater infiltration into the pit. This backhoe will excavate and transfer the tar into a nearby rolloff container where a CAT 225 (or equivalent type) backhoe will solidify the tar with kiln dust/flyash. A 30 percent by weight of kiln dust/flyash is anticipated required to properly solidify the tar to pass the paint filter test and legally transport the material to the proposed disposal facility. Solidified material will then be loaded into dump trucks (22 tons capacity) provided by CWM's approved and licensed transportation subcontractor for eventual disposition. The primary disposal facility proposed for the solidified tar material is CWM's Adams Center Landfill in Fort Wayne, Indiana. As an alternative, CWM's CID Landfill in Calumet City, Illinois can be utilized if the PRPs request.

A 20% volume increase is anticipated with the solidification process. Precaution will be taken to minimize the amount of lime kiln dust utilized for the solidification.

Soil/tar material and debris encountered in the pit will be addressed using the same methodology as outlined above.

### 3.6 Installation of HDPE Liner

Upon completion of the tar excavation activities, CWM's approved subcontractor will be mobilized for the liner installation.

The liner system will consist of a 60 mil HDPE liner manufactured by National Seal or equivalent. Prior to the placement of the liner, the pit bottom will be prepared for liner installation by placing a layer of sand (6) inches thick. This sand layer will act as a support for the liner and also minimize impact on the integrity of the liner. An anchor trench of three foot depth will be placed around the pit to secure the liner.

### 3.7 Demobilization

Following completion of all excavation activities, CWM-ENRAC will demobilize all personnel and equipment from the site.

# 5.0 PROJECT MANAGEMENT

## 5.1 Summary

The nature and scope of activities to be undertaken at the project site makes effective project management an integral factor in successful project implementation. The following sections present in detail CWM-ENRAC's project management elements which the company must be addressed in order to successfully complete the remediation of the Waukegan tar site.

In order to establish the priorities and focus on the management systems to be implemented, it is important to first define the objectives of the project. CWM-ENRAC believes the primary objectives of the project are:

- Accomplish the Objectives of the Scope of Work.
- Compliance with Regulations.
- Compliance with Health & Safety requirements.
- Document Performance.

Successfully accomplishing the above objectives has driven the design of the operating plans and procedures for the projects.

Following are the key management elements which we believe are necessary to accomplish the primary project objectives stated above. These management elements, when combined with operative procedures provided in Section 3.0, will assure that the Waukegan site remediation effort will be performed utilizing defined procedures that will insure that the project will be successfully completed in an environmentally and technically sound manner.

## 5.2 Project Organization

The project scope requires careful and experienced operations planning as well as a team of personnel capable of carrying out the various operations phases of the project. The in-house team which CWM-ENRAC will assemble for this project will be selected based upon required job function qualifications and remedial action experience relates specifically to the project tasks.

CWM-ENRAC has assembled a comprehensive project organization to provide to effective implementation of the managements tasks associated with the Waukegan site remediation. The team has been developed to manage both the on-site tasks at the site as well as the support activities which will take place off-site.

Overall project management responsibility will run on a direct line from the Field Operations group, through the On-site Project Manager, to the client, the Waukegan Tar Pit committee.

Because of the nature and magnitude of the work to be undertaken, the need for effective project management extends from beyond day-to-day management of daily on-site activities, to the successful integration of corporate support functions. The project organization, as developed, provides for such integration.

Environmental compliance, Health and Safety, and QA/QC monitoring will be the responsibility of the groups reporting to the ENRAC Regional Office. These groups may perform internal audits to assure compliance with the site Operations and Health and Safety Plans along with applicable federal, state, and local regulations.

## 5.3 Communications

Clearly defined lines of communications will be essential to the orderly flow of information during the remediation effort. This will be particularly true at the outset of the project when control of communications will be critical to the development of final plans and the initiation of the implementation effort. Clearly, there will be a need for communication among all participants associated with the project.

On-site project meetings will be critical to the maintenance of effective communication. During the active operational activities, CWM-ENRAC will schedule meetings with the Waukegan Tar Pit as necessary. At these meetings, project progress will be reviewed, upcoming activities will be presented, and outstanding issues or problems will be discussed and resolved.

## 5.4 Team Coordination

As prime contractor, CWM-ENRAC will be responsible for the management of all of the work under the Scope of Work.

To effectively manage the project it is imperative that a system of controls and procedures to implement the different elements according to specification, responsibility, and schedule be in place. Through direct lines of reporting and detail, company-specific scope of work statements will allow CWM-ENRAC to maintain an effective control on any subcontracted activities. Frequent in-process evaluation of subcontractor performance will be made to permit early recognition of problems that may arise. All work will be performed with supervision or monitoring by appropriate CWM-ENRAC technical personnel.

The control of the subcontractors will be a joint effort of the CWM-ENRAC Project Manager, and the project's subcontractor

coordinator. The subcontractor will prepare and review subcontract task orders and modifications; monitor and evaluate the subcontractors' progress toward meeting milestones and hardware or data deliverables, assure that variance reporting and change procedures are followed; and receive, review, and file copies of all reports and date items delivered under the subcontract.

The CWM-ENRAC Project Manager will maintain surveillance over all technical aspects of subcontractor work, such as: 1) monitoring schedule adherence; and 2) reviewing and approving subcontractor technical aspects of work as required to satisfy the requirements of the project. The CWM-ENRAC Project Manager will be the primary on-site interface between subcontract personnel, and the Waukegan Tar Pit Steering Committee.

## 5.5 Management Personnel

CWM-ENRAC has attached copies of the following management personnel.

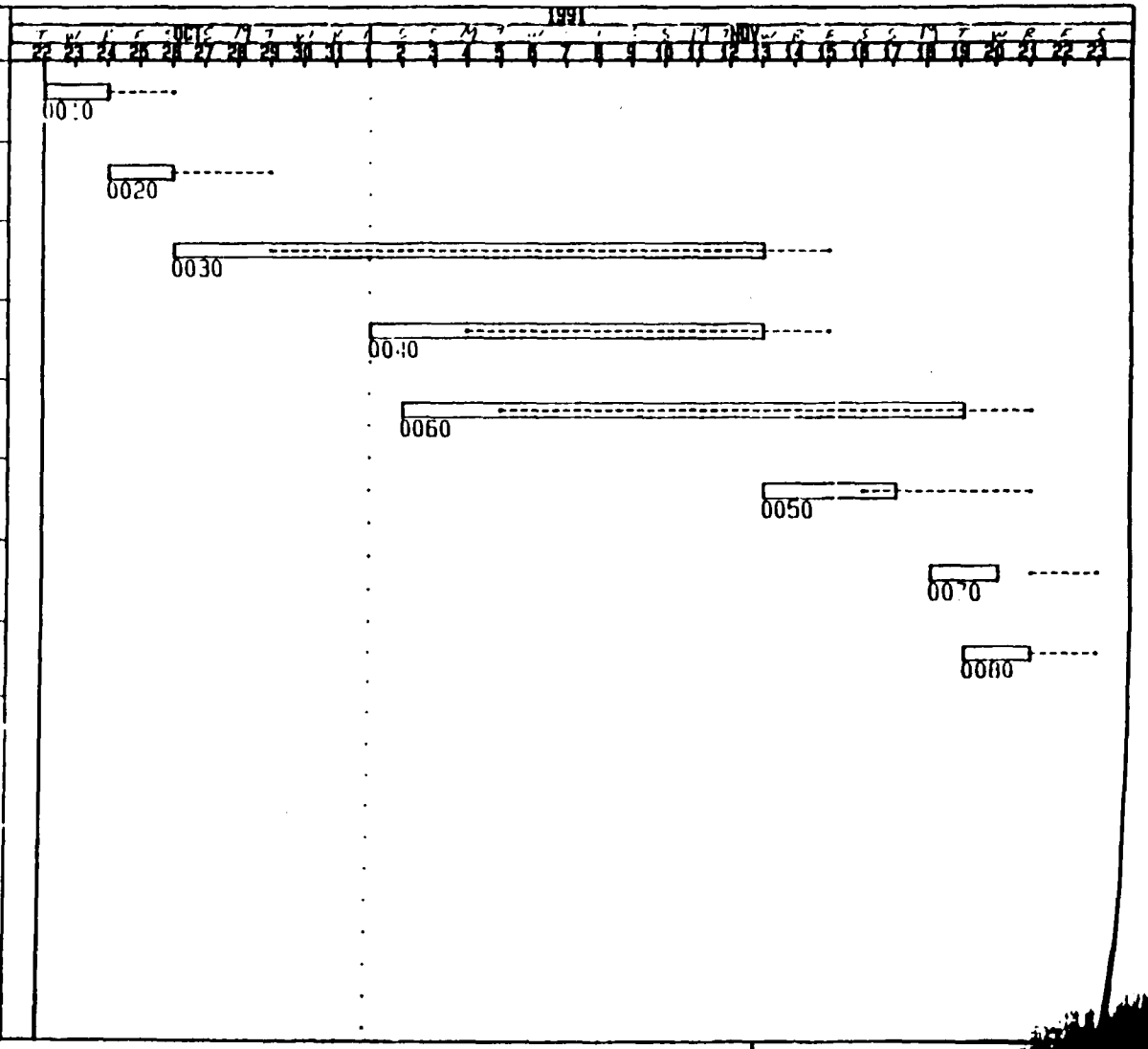
- ENRAC Regional Director
- ENRAC Operations Manager
- ENRAC Senior Project Managers
- ENRAC Project Managers

Personnel with qualifications consistent with those of the Senior Project Managers and Project Managers will be assigned to this project.

## 7.0 PROJECT SCHEDULE

Attached is CWM-ENRAC's anticipated project schedule in CPM format.

| | | |
|---|---|---|
| HEALTH AND SAFETY PLAN | 0010 | CAL 1 |
| ES 22OCT91 | EF 23OCT91 | |
| MOBILIZATION | 0020 | CAL 1 |
| ES 24OCT91 | EF 25OCT91 | |
| WATER TREATMENT | 0030 | CAL 1 |
| ES 26OCT91 | EF 12NOV91 | |
| TAR REMOVAL AND SOLIDIFICATION | 0040 | CAL 1 |
| ES 1NOV91 | EF 12NOV91 | |
| TRANSPORTATION AND DISPOSAL | 0060 | CAL 1 |
| ES 2NOV91 | EF 18NOV91 | |
| DEBRIS REMOVAL AND SOLIDIFICATION | 0050 | CAL 1 |
| ES 13NOV91 | EF 16NOV91 | |
| LINER INSTALLATION | 0070 | CAL 1 |
| ES 18NOV91 | EF 19NOV91 | |
| DECONTAMINATION AND DEMOBILIZATION | 0080 | CAL 1 |
| ES 19NOV91 | EF 20NOV91 | |




Legend
Activity Bar/Early Dates
Critical Activity
Progress Bar
Activity Late Dates

Project Start : 22OCT91
Project Finish: 20NOV91

THE PEOPLES GAS LIGHT AND COKE CO.
WAUKEGAN TAR PIT SITE, WAUKEGAN, IL
PROPOSED PROJECT SCHEDULE

Sheet 1 of 1

Date Date: 22OCT91
Plot Date: 18OCT91

By and Between CWM and
North Shore dated
November 5, 1991

## PRICE SCHEDULE

Based on the Work, CWM has established the following price schedule.

| Task | Rate |
|---|---|
| Mobilization/ Demobilization | $26,194.00 lump sum |
| On-Site Water Management up to 100,000 gallons | $0.25 per gallon |
| On-Site Water Management in excess of 100,000 gallons | $0.21 per gallon |
| Off Site Water Management | $0.60 per gallon |
| Excavation, Solidification, Transportation and Disposal | $214.50 per ton |
| Handling Special Process Waste Materials - Other Additives | $80.00 per ton |
| Liner Installation (including Liner) | $1.27 per sq. ft. |
| Berm Design and Installation 2' high by 4' wide | $3.80 per lineal ft. |

## GENERAL TERMS AND CONDITIONS

1. On-site water treatment train is limited to oil/water separation and carbon adsorption. Additional activated carbon loading after the first 2,000 pounds will be billed at $2,640.00 per event.
2. Verification or effluent sampling activities are not included in the project costs.
3. The above price schedule includes all taxes, tariffs, fees, surcharges or other charges concerning the transportation, storage, processing, and treatment or disposal of the Waste Materials.

# *Appendix E*

## *License Agreement*

# LICENSE AGREEMENT

**THIS LICENSE AGREEMENT** (the "Agreement"), is made this 7th day of November, 1991, by and between the NORTH SHORE SANITARY DISTRICT (the "District"), and the NORTH SHORE GAS COMPANY (the "Gas Company") (collectively the "Parties");

**WHEREAS,** the District and the Gas Company have been identified by EPA as potentially responsible parties ("PRPs") pursuant to the Comprehensive Environmental Response Compensation and Liability Act of 1980, as amended, 42 U.S.C. §9601 et seq. ("CERCLA") for the Waukegan Tar Pit Site in Waukegan, Illinois, as described in Exhibit A attached hereto, (the "Site");

**WHEREAS,** the Gas Company has agreed to comply with a unilateral order issued by U.S. EPA pursuant to Section 106 of CERCLA (the "Order");

**WHEREAS,** the stated purpose of the Order is to remove all visible free tar from the Site and to conduct an extent of contamination study of the Site.

**WHEREAS,** the Gas Company has requested permission to enter upon the Site in order to prepare for and conduct activities in accordance with the Order; and

**WHEREAS,** the District is willing to grant the Gas Company a temporary license to enter upon that portion of the Site owned by the District for the above-stated purposes:

**NOW, THEREFORE,** in consideration of and conditioned upon the mutual covenants, promises and agreements stated herein, the Parties agree as follows:

1. The District ("Licensor") hereby grants the Gas Company and its respective duly authorized employees and agents, including contractors and subcontractors, (collectively the "Licensees") a temporary license to enter upon that portion of the Site owned by the District for the purpose of preparing for and conducting any and all activities necessary to implement the Order.

2. The Gas Company shall provide the District with a written timetable setting forth the activities to be conducted in the preparation for and implementation of the Order in sufficient detail to allow the District to reasonably ascertain the nature and scope of such activities contemplated at the Site and their expected duration. Such timetable shall be transmitted to the District within thirty calendar days of the execution of this Agreement. No entry upon the Site will be permitted under this License Agreement until the District has received the written timetable.

3. The Gas Company shall indemnify, hold harmless and defend the District, its respective employees and agents, and each of them, from and against all claims, demands, damages, losses, lawsuits, other proceedings, causes of action, liabilities, claims of lien, liens, civil or criminal penalties and charges, reasonable attorneys' fees or other costs and expenses arising out of or incident to any property damages or personal injuries, including, but not limited to, emotional or bodily injuries or death, damage to power or sewer lines, devaluation

of property, or other claims for payment or liabilities which result from or are caused by the intentional, willful or negligent acts, omissions or errors of the contractor, its respective employees and agents including subcontractors, while performing activities at the Site.

4. The Gas Company's duly authorized contractors or subcontractor, shall at its own cost and expense and prior to any entry upon the Site, obtain the following coverage and shall maintain such coverage during the course of the activities described in this Agreement each with the District as a named additional insured.

| | Coverage | Limits |
|---|---|---|
| (1) | Employer's Liability | $5,000,000 each occurrence |
| (2) | General Liability (personal injury) | $5,000,000 aggregate |
| (3) | General Liability (bodily injury and property damage combined) | $5,000,000 each occurrence |
| (4) | Automobile Liability (bodily injury and property damage combined) | $5,000,000 each occurrence |
| (5) | Workmen's Compensation | Statutory |

Prior to any entry upon the Site, the Gas Company's duly authorized contractors or subcontractors shall provide the District evidence of such insurance, a certificate of insurance, or the equivalent thereof, in compliance with the requirements of this paragraph.

5. The District shall permit only those employees of the Gas Company and any contractor or subcontractor designated by the Gas Company in writing to enter the Site at "reasonable times" to conduct the activities set forth in this License. The phrase "reasonable times" is consistent with the need to conduct work on a twenty-four (24) hour basis. The Gas Company shall ensure that all employees and any contractor or subcontractor so designated by the Gas Company possess the necessary certifications and training as required under all applicable laws and regulations to conduct such activities.

6. The Gas Company shall conduct all activities set forth in this License in a manner so as to avoid interfering with the District's ongoing operations at its adjacent Wastewater Treatment Plant. The District's General Manager shall have the authority to remove from the Site at any time and without notice any employee, contractor or agent of the Gas Company interfering with the District's operations at its adjacent Wastewater Treatment Plant.

7. The Gas Company including any designated contractor or subcontractor, shall provide the District with not less than twenty-four hours notice of any sampling to be conducted at the Site, giving details as to the location, time and manner of such sample-taking and shall offer the District or its representatives the opportunity to split any samples collected.

8. The Gas Company shall provide the District with copies of all documents not covered by our attorney-client privilege

or other confidential status which reference, discuss, describe or otherwise concern the activities of U.S. EPA or the Gas Company at the Site in the preparation for and completion of activities pursuant to the Order, including, without limitation, all work plans, field sampling plans, quality assurance plans, health and safety plans, analytical results and data, contracts between the environmental contractor and the Gas Company, confidential reports, and correspondence between the Gas Company and any government agency.

9. This License shall continue in effect until such time as the activities pursuant to the Order are concluded.

10. The Parties reserve all rights and defenses that they may have individually or collectively pursuant to any available legal authority.

11. The Gas Company recognizes that the District's agreement to grant this License is of value to the completion of the activities pursuant to the Order.

12. Failure of U.S. EPA or the Gas Company to fully and promptly comply with all terms and conditions of this License shall result in immediate revocation by the District. Further, if the Gas Company at any time ceases to comply with the terms of the Order, this License shall immediately be revoked as to such party.

13. The District will not conduct any independent activities on the Site during the time that the Gas Company's contractor is conducting activities under the terms of the Order.

# *Appendix F*

## *Indiana Uniform Hazardous Waste Manifests*

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

Form Approved. OMB No. 2050-0039. Expires 9-30-9.

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.)

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILP200001293 — Manifest Document No.: 00001
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

A. State Manifest Document Number: INA 0596203

3. Generator's Name and Mailing Address: North Shore Gas Co. 122 S. Michigan Rm 1103 Chicago, IL 60603

B. State Generator's ID: IL 0971903009

4. Generator's Phone (708) 431-4810

C. State Transporter's ID: 1841

5. Transporter 1 Company Name: Wills Trucking Co.

6. Use EPA ID Number: OHD068913409

D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:

8. Use EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill 4636 Adams Center Rd Fort Wayne IN 46806

10. Use EPA ID Number: IND 078911146

G. State Facility's ID: ~~IND 078911146~~

H. Facility's Phone: 219-447-5565

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid N.O.S. CLASS NA 9189 (D018) | 001 | DT | 16 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: AN0864 * WO# 23577

K. Handling Codes for Wastes Listed Above: D81 Net 33,520 lbs

15. Special Handling Instructions and Additional Information: * 24 HOUR EMERGENCY PHONE (205)652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JERRY PICHA — Signature: [signature] — Month 11 Day 27 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Derek L Byers — Signature: [signature] — Month 11 Day 27 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space: * Per Pete Johnson 12/4/91 MH

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19 — Printed/Typed Name: Megan Henley — Signature: Megan Henley — Month 11 Day 27 Year 91

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (or night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4. TSD MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* Form Approved. OMB No. 2050-0039. Expire...

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IXP200001293 — Manifest Document No.: 00002
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co. 122 S. Michigan Rm 1003 Chicago IL 60603
4. Generator's Phone (708) 431-4810

A. State Manifest Document Number: INA 0596204
B. State Generator's ID: IL 0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: D.H.0068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill 4636 Adams Center Rd Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste Solid N.O.S. ORME NA 9189 (D018) | D01 | DT | 17* ~~17.4~~ | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: AN0864 * W.O. 23579

K. Handling Codes for Wastes Listed Above: D81 Net 33,760 lbs

15. Special Handling Instructions and Additional Information: 24-HOUR EMERGENCY PHONE (205)652-9721 *

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha — Signature: Jerry Picha — Month 11 Day 27 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Anthony L. Gade — Signature: Anthony L. Gade — Month 11 Day 27 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space: *Per Pete Johnson 12/4/91 MH

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19
Printed/Typed Name: Megan Henley — Signature: Megan Henley — Month 11 Day 27 Year 91

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (... or night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 TSD MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL D000001293 Manifest Document No. 00003
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Ave. Rm 813
Chicago, IL 60603
4. Generator's Phone (708) 437-4811

A. State Manifest Document Number INA 0596205
B. State Generator's ID IL0971903009

5. Transporter 1 Company Name: Willis Trucking Co.
6. Use EPA ID Number: IND006891399
C. State Transporter's ID 1891
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Rd
Fort Wayne, IN 46816
10. Use EPA ID Number: IND079111194
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. NR HAZARDOUS WASTE, SOLID N.O.S. (XM-E UA 9189 (D018)) | 001 | DT | 17* ~~1165~~ | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: AN 0864 W.O. # 23578

K. Handling Codes for Wastes Listed Above: D81 Net 33180 lb

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE
* (205) 652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JERRY PICHA — Signature: Jerry Picha — Date (Month Day Year): 12 7 91

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Jack Stout — Signature: Jack Stout — Date (Month Day Year): 12 7 91

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

19. Discrepancy Indication Space
* Per Pete Johnson 12/4/91 MH

20. Facility Owner or Operator Certification of receipt of hazardous waste covered by this manifest except as noted Item 19
Printed/Typed Name: Megan Henley — Signature: Megan Henley — Date (Month Day Year): 12 7 91

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 ( or night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4. TSD MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL-D200001293
Manifest Document No.: 00004
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North SHORE GAS Co. 122 S. Michigan Rm 1003 Chicago, IL 60603
4. Generator's Phone: (708-) 431-4810

A. State Manifest Document Number: INA 0596202
B. State Generator's ID: IL0971903009
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD06891340 90
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Adams Center Landfill, 4676 Adams Center Rd, Fort Wayne, IND 46806
10. Use EPA ID Number: IND078911146

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid N.O.S. CRM-E NA 9189 (D018) w/Debris | 001 | DT | 24 @ ~~24.17~~ | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: WO # 23772 Profile AN0864 (2) Per Pete Johnson Solidified tar

K. Handling Codes for Wastes Listed Above: Net 50340# 081 LANDFILL

15. Special Handling Instructions and Additional Information: Emergency Contact (205) 652-9721 @

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: [signature] — Month Day Year: 12 03 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger I Waters — Signature: [signature] — Month Day Year: 12 03 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year: 12 04 91

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of Environmental Respon... 317/241-4336 (...y or night) and the National Response Center at 800/424-8802 ... 202/426-2675.

INA 0596202

COPY 6 - TOP MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ILD 2000012930 — Manifest Document No. 00005
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore GAS Co.
182 S. Michigan Rm 1003
Chicago, Ill 60603
4. Generator's Phone ( 708 ) 437-4810

A. State Manifest Document Number: INA 0596206
B. State Generator's ID: ILD971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: DHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Rd
Fort Wayne, IND 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid N.O.S. ORNE NA 9189 (D018) w/Debris | 001 | DT | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # ANC664
WO Number 23795

K. Handling Codes for Wastes Listed Above
Not 45620 #
087 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 312-552-1721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Picha — Signature — Date: Month 12 Day 05 Year 91

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Tim Dexter — Signature — Date: Month 12 Day 05 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19 — Printed/Typed Name: Troy Hamme — Signature — Month Day Year

INA 0596206

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1 - TO MAIL TO GENERATOR

ase of a spill call the Indiana Office of Environmental Respon (317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD200001293 — Manifest Document No.: 000006
2. Page 1: 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co, 122 S. Michigan Km 1003
4. Generator's Phone: (708-) 431-4810

A. State Manifest Document Number: INA 0596207
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill, 4636 Adams Center Rd, Fort Wayne, IND 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid N.O.S. ORME NA 9189 (D018) w/Debris | 001 | DT | 25 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile No. AN0864, WO Number 23796
K. Handling Codes for Wastes Listed Above: net 53340, b81 Landfill

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: [signature] — Month / Day / Year: 12 / 20 / 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger L Waters — Signature: [signature] — Month / Day / Year: 12 / 20 / 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month / Day / Year:

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19
Printed/Typed Name: [signature] — Signature: [signature] — Month / Day / Year: 12 / 20 / 91

INA 0596207

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of Environmental Respor at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 2 0 0 0 0 1 2 9 3 — Manifest Document No. 0 0 0 0 7
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596230
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Prish # AN0444
WO # 23157

K. Handling Codes for Wastes Listed Above
Not 47 DOT
Oil Lay Off

L. Special Handling Instructions and Additional Information
Emergency Contact ~~[illegible]~~
305-652-7721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pecha — Signature: Jerry Pecha — Month [illegible] Day [illegible] Year [illegible]

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Roger Hatfield Water — Signature: Roger Hatfield — Month 12 Day 8 Year 91

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 19
Printed/Typed Name: [illegible] — Signature: [illegible] — Month [illegible] Day [illegible] Year [illegible]

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call the Indiana Office of Environmental Response t 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INA 0596230

EPA Form 8700-22
Previous editions are obsolete.
State Form 11665 (R/4-89)

COPY 1 - TO BE MAILED TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 2 0 0 0 0 1 2 9 3 — Manifest Document No.: 0 0 0 0 8
2. Page 1: 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address:
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone: 708-431-4810

A. State Manifest Document Number: INA 0596231

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.

6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9

C. State Transporter's ID: 1841

D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:

8. Use EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID:

H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above:
Profile No. AA0564
WO # 23968

K. Handling Codes for Wastes Listed Above:
net 47880
D81 LANDFILL

15. Special Handling Instructions and Additional Information:
Emergency No. [illegible] 652-7721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Month 12 Day 09 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David McNulty — Month 12 Day 09 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Month Day Year

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue — Signature: Tracey Relue — Month 12 Day 09 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596231

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of Environmental Respon t 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 2 0 0 0 0 1 2 9 3
Manifest Document No.: 00009
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0461452
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
[illegible] No. [illegible]
[illegible]

K. Handling Codes for Wastes Listed Above
[illegible] 47240
[illegible] Landfill

15. Special Handling Instructions and Additional Information
[illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: [illegible] Month 12 Day 09 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bill Shutt Month 12 Day 09 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19
Printed/Typed Name: [illegible] Month 12 Day 10 Year 91

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 TO MAIL TO GENERATOR

INA 0461452

ase of a spill call the Indiana Office of Environmental Respon t 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 7 0 0 0 0 1 7 9 3 — Manifest Document No. 0 0 0 1 0
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number: INA 0461453

4. Generator's Phone ( 708-431-4810

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) Demo | 001 | DT | 25 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| c. | | | | | |

J. Additional Descriptions for Materials Listed Above
Fuel Co. 110614
Work order # 23777

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 50400

15. Special Handling Instructions and Additional Information
Gary 16 [illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Rous — Signature: Jerry Rous — Month 12 Day 09 Year 91

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: Jesse E. Bone — Signature: Jesse E Bone — Month 12 Day 09 Year 91

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19
Printed/Typed Name: Tracey Relue — Signature: Tracey Relue — Month 12 Day 10 Year 91

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R 4-89)

COPY 6 - TSD MAIL TO GENERATOR

INA 0461453

ase of a spill call the Indiana Office of Environmental Respon t 317/241-4336 (day or night) and the
rational Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I·L·D·~~2·0·0·0·0·1·2·9·3~~ 784-807-790
Manifest Document No.: 0·0·0·1·4
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596232
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | *24 ~~27~~ | T | D016 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # NN0864
WO # 24034

K. Handling Codes for Wastes Listed Above
Net 47360#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency # 305-652-7721

16. GENERATOR'S CERTIFICATION I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JERRY PICHA — Signature: Jerry Picha — Month 12 Day 1 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JACK STOTT — Signature: [signature] — Month 12 Day 1 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space
* Per John Courtney 12/17/91 MH

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [signature] — Signature: [signature] — Month 12 Day 1 Year 91

In case of a spill call the Indiana Office of Environmental Response ... 317/241-4336 (d... or night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R 4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I. L. D. ~~2 0 0 0 0 1 2 9 3~~ Manifest Document No. 0 0 0 1 2
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
184-807-990

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0596233
B. State Generator's ID ILD971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 2.11 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
PROFILE # AN0664
WO # 24035

K. Handling Codes for Wastes Listed Above
Ref 4336.0
D81 Landfill

15. Special Handling Instructions and Additional Information
Emergency # 205-652-1721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Jerry Picha — Signature: Jerry Picha — Date: Month 12 Day 1 Year 91

TRANSPORTER 1 — 17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Sharon K Bone — Signature: Sharon K Bone — Date: Month 12 Day 1 Year 91

TRANSPORTER 2 — 18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month . Day . Year .

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

INA 0596233

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the
ional Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D ~~2 0 0 0 0 1 2 9~~ Manifest Document No.: 00013
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co., 122 S. Michigan Room 1003, Chicago, IL 60603 — ~~Ext~~ 789-807-990
4. Generator's Phone: 708-431-4810

A. State Manifest Document Number: INA 0596235
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill, 4636 Adams Center Road, Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OHM-E NA 9189 (D018) | 001 | DT | 33 ~~29~~ | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # 4NC864; INC # 24097 — per John Courtney 12/16/94
K. Handling Codes for Wastes Listed Above: Net 65880 — D81 LANDFILL

15. Special Handling Instructions and Additional Information: Emergency # 215 652-3721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: [signature] — Month 12 Day 15 Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton — Signature: [signature] — Month 12 Day 15 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month 12 Day 16 Year 94

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...se of a spill call the Indiana Office of Environmental Respon... 317/241-4336 (...y or night) and the National Response Center at 800/424-8802 ... 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D ~~2 0 0 0 0 1 2 9~~ 0 0 0 1 4 — 847-807-990
Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596236

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.

6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9

C. State Transporter's ID: 1841

D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID

H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 21 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
PROFILE # 2A0864
WO# 24098

K. Handling Codes for Wastes Listed Above
D81 Landfill
hut 51880

15. Special Handling Instructions and Additional Information
Emergency No. 315-452-1721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JERRY PICHA — Signature — Date: Month 12 Day 16 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ROGER L WATER — Signature — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Tracy Relue — Signature: Tracy Relue — Month 12 Day 16 Year 91

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

INA 0596236

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 TSD MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D ~~2 0 0 0 0 1 2 9 3~~ 984-807-990
Manifest Document No.: 00015
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596237
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 00013 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # ANO 864
WO # 24167

K. Handling Codes for Wastes Listed Above
NA # 23580
DOT LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-7721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 12 Day 16 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger F. Wuti
Signature: Roger F. Wuti
Date: Month 12 Day 16 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year 12 [illegible]

GENERATOR / TRANSPORTER / FACILITY

INA 0596237

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...se of a spill call the Indiana Office of Environmental Respon... 317/241-4336 (...y or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I.L.D. ~~2 0 0 0 0 1 2 9 3~~ 784-807-990 — Manifest Document No.: 00076
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address:
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596238
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OEM-E NA 9189 (D018) | 0.0.1 | D.T | 000 ~~17~~ *13 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above:
Profile # AND664
WO # 24168

K. Handling Codes for Wastes Listed Above:
Med 26 8 40
D87 Land Fill

15. Special Handling Instructions and Additional Information:
Emergency # 205-652-7721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: [signature] — Date: Month 12 Day 6 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Mackey — Signature: James Mackey — Date: Month 12 Day 6 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space: *Per John Courtney 12/19/91 MAP

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month 12 Day 6 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596238

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Respon... 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D ~~2 0 0 0 0 1 2 9 3~~ 984-807-990
Manifest Document No.: 000 17
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596239
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 0 0 0 2 2 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
UX # 24169

K. Handling Codes for Wastes Listed Above
Net 43960#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-152-1721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed Typed Name: Jerry Picha
Signature: [signature]
Date: Month 12 Day 17 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Typed Name: Jesse E. Bone
Signature: Jesse E Bone
Date: Month 12 Day 17 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed Typed Name: Sandy [illegible]
Signature: [signature]
Month Day Year

GENERATOR

TRANSPORTER

FACILITY

INA 0596239

...se of a spill call the Indiana Office of Environmental Respon... (317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D ~~3 0 0 0 0 1 2 9 3~~ 184-807-790
Manifest Document No.: 00018
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596240
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | Q Q 1 | D T | 00021 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
PROFILE # AN0214
WO# 24295

K. Handling Codes for Wastes Listed Above
Net 38000#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
EMERGENCY # 105-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed Typed Name: JERRY PICHA
Signature: [signature]
Month 12 Day 17 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Typed Name: MICHAEL WAYNE SACKREY
Signature: [signature]
Month 12 Day 17 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19
Printed Typed Name: [signature]
Signature: [signature]
Month Day Year

GENERATOR / TRANSPORTER / FACILITY

INA 0596240

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of Environmental Respon t 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I·L·D·~~2·0·0·0·0·1·2·9·3~~ 984-607-990
Manifest Document No.: 00029
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address:
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596241
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I.N.D.0.7.8.9.1.1.1.4.6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 20 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864; WO # 24296

K. Handling Codes for Wastes Listed Above: Jet 42780 P81 Landfill

15. Special Handling Instructions and Additional Information: [illegible] 721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: [signature] — Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Anthony L Gude — Signature: [signature] — Month 12 / Day 18 / Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month / Day / Year

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [signature] — Month / Day / Year 12 / 19 / 91

GENERATOR

TRANSPORTER

FACILITY

INA 0596241

use of a spill call the Indiana Office of Environmental Respon 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D ~~2 0 0 0 0 1 2 9 3~~ — Manifest Document No. 00-020
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708-431-4810 — 164-507-790

A. State Manifest Document Number: INA 0596242
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 00021 | T | D016 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # [illegible]564
WO# 24297

K. Handling Codes for Wastes Listed Above
Net 4200 lbs
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No [illegible] 652-1721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: [signature] — Date: Month 12 Day 8 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills — Signature: D. Mills — Date: Month 12 Day 8 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: D. Mills — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in 19
Printed/Typed Name: Sherry Kruger — Signature: [signature] — Date: Month 12 Day 8 Year 91

GENERATOR — TRANSPORTER — FACILITY

INA 0596242

...ase of a spill call the Indiana Office of Environmental Response (317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 2 0 0 0 0 1 2 9 3 — Manifest Document No.: 0 0 0 2 1
2. Page 1: 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co., 122 S. Michigan Room 1003, Chicago, IL 60603 — 984-807-990
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596243
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill, 4636 Adams Center Road, Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 00021 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0564; WO # 243388

K. Handling Codes for Wastes Listed Above: Net 42160# D81 Landfill

15. Special Handling Instructions and Additional Information: Emergency No. 215-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: [signature] — Date: Month 12 Day 18 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Maurice Scott — Signature: [signature] — Date: Month 12 Day 18 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year

GENERATOR / TRANSPORTER / FACILITY

INA 0596243

...ase of a spill call the Indiana Office of Environmental Respor... ...t 317/241-4336 (day or night) and the ...onal Response Center at 800/424-880... ...202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D ~~2 0 0 0 0 1 2 9~~ 184-807-990
Manifest Document No.: 300022
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596244
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | C0021 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0664
WO # 243389

K. Handling Codes for Wastes Listed Above
Net 42000#
D81 Landfill

15. Special Handling Instructions and Additional Information
Emergency No. 05-652 1721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Month 12 Day 6 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger L Waters
Signature: Roger L Waters
Month 12 Day 6 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year 12 1991

GENERATOR / TRANSPORTER / FACILITY

INA 0596244

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...se of a spill call the Indiana Office of Environmental Respon... t 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I.L.D. ~~2 0 0 0 0 1 2 9 3~~ 184-807-190
Manifest Document No.: 0.0.0.2.3
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596245
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 00020 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
[illegible] # AN0864
WO# 24352

K. Handling Codes for Wastes Listed Above
Net 39280 #
D81 LAND Fill

15. Special Handling Instructions and Additional Information
Emergency No. 205 652-7721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JERRY PICHA
Signature: [signature]
Month 12 Day 19 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: JAMES L FELIX
Signature: [signature]
Month 12 Day 19 Year 91

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible]
Signature: [signature]
Month 12 Day 23 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596245

se of a spill call the Indiana Office of Environmental Respon. 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I.L.D ~~2 0 0 0 0 1 2 9 3~~ 184-807-990
Manifest Document No.: 000-24
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596246
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00021 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO# 24353

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 43100

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Piona
Signature: [signature]
Date: Month 12 Day 19 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Nick Domino
Signature: [signature]
Date: Month 3 Day 19 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19
Printed/Typed Name: Tracey Kelve
Signature: Tracey Kelve
Date: Month 12 Day 20 Year 91

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Respon... 317/241-4336 (...y or night) and the National Response Center at 800/424-8802 ... 202/426-2675.

INA 0596246

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I.L.D. 2.0.0.0.0.1.2.9.3 — Manifest Document No.: 00025
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co., 122 S. Michigan Room 1003, Chicago, IL 60603 — 984-307-790
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596247
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill, 4636 Adams Center Road, Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864, WO# 24354

K. Handling Codes for Wastes Listed Above: D81 Landfill, net 43500

15. Special Handling Instructions and Additional Information: Emergency No. 203-652-1721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pierna — Signature: [signature] — Month 12 Day 19 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Anthony L Gade — Signature: [signature] — Month 12 Day 19 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue — Signature: Tracey Relue — Month 12 Day 20 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596247

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of Environmental Respor t 317/241-4336 (day or night) and the
National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD 200001293 — Manifest Document No.: 00026
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co., 122 S. Michigan Room 1003, Chicago, IL 60603 — 164-807-990
4. Generator's Phone (708-431-4810

A. State Manifest Document Number: INA 0596248
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill, 4636 Adams Center Road, Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AA0664, WO# 24355

K. Handling Codes for Wastes Listed Above: D81 Landfill, net 44740

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha — Signature: [signature] — Date: Month 12 Day 19 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MAURICE SCOTT — Signature: Maurice Scott — Date: Month 12 Day 19 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue — Signature: Tracey Relue — Date: Month 12 Day 20 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596248

...ase of a spill call the Indiana Office of Environmental Respor... at 317/241-4336 (day or night) and the ...ational Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D ~~2 0 0 0 0 1 2 9 3~~ 184-807-990
Manifest Document No.: 00027
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address:
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596249
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | * 18 ~~20~~ | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above:
Profile No. AN0864
WO # 24356

K. Handling Codes for Wastes Listed Above:
* 35200 lb
D81 LANDFILL

15. Special Handling Instructions and Additional Information:
Emergency No. 205-952-1721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pierce
Signature: [signature]
Date: Month 12 Day 19 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steve Blair
Signature: [signature]
Date: Month 12 Day 19 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
* Section 13 changed to 18 per John Courtney 12/27/91 KRU.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Tommy [signature]
Signature: [signature]
Month Day Year 12 27 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596249

...ase of a spill call the Indiana Office of Environmental Respo... at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IX D984807990
Manifest Document No.: 00028
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Rm 1003
Chicago, IL 60603
4. Generator's Phone (708) 437-4810

A. State Manifest Document Number: INA 0596208
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
ADAMS Center Landfill
4636 Adams Center Rd
Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid N.O.S. CRM-E NA 9189 (D018) | 001 | DT | 21 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO# 24357

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 43660

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month 12 Day 19 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Wiers
Signature: Roger Wiers
Month 12 Day 19 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Month 12 Day 20 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596208

Please call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL D984807790
Manifest Document No.: 00029
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co, 122 S. Michigan Room 1003, Chicago IL 60603
4. Generator's Phone (708) 431-4810

A. State Manifest Document Number: INA 0596209
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill, 4636 Adams Center Road, Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste Solid, N.O.S. RM-E NA 9189 (D018) | 001 | DT | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864, WO# 24376
K. Handling Codes for Wastes Listed Above: Net 47620# D81 Landfill

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month: 12 Day: 22 Year: 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger L Waters
Signature: [signature]
Month: 12 Day: 22 Year: 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month: Day: Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month: 12 Day: 23 Year: 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596209

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

Please call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00030
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address:
North Shore Gas Co.
1225 Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone (708) 431-4810

A. State Manifest Document Number: INA 0596210
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OH.D068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID: 21
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. CRM-E NA 9189 (D018) | 001 | DT | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above:
Profile # ANO 864
WO # 24377

K. Handling Codes for Wastes Listed Above:
N-#45520
D8/Landfill

15. Special Handling Instructions and Additional Information:
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 12 Day 22 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton
Signature: [signature]
Date: Month 12 Day 22 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 12 23 91

GENERATOR / TRANSPORTER / FACILITY

INA 0596210

Please of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I.L.D.984 807990
Manifest Document No.: 00031
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co. 122 S. Michigan Room 1003 Chicago IL 60603
4. Generator's Phone: (708) 431-4810

A. State Manifest Document Number: INA 0596211
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OH.D06.8.9.1.3409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill 4636 Adams Center Road Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 24 | T | (D018) |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864 WO# ~~24378~~ 24392

K. Handling Codes for Wastes Listed Above: N-48660# D81 Landfill

15. Special Handling Instructions and Additional Information: Emergency No 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 12 Day 22 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E Bone
Signature: Jesse E Bone
Date: Month 12 Day 22 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 12 Day 23 Year 91

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call the Indiana Office of Environmental Respon... at 317/241-4336 (... or night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990 — Manifest Document No.: 00032
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore GAS, 122 S. Michigan Room 1003, Chicago, IL 60603
4. Generator's Phone (708) 431-4810

A. State Manifest Document Number: INA 0596212
B. State Generator's ID: ILD971903009
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: ADAMS CENTER LANDFILL, 4636 Adams Center Road, FORT WAYNE, IN 46806
10. Use EPA ID Number: IND078911146

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ HAZARDOUS Waste, SOLID, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00025 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: PROFILE # AN0864, WO# 24393

K. Handling Codes for Wastes Listed Above: Net 50400# D81 LANDFILL

15. Special Handling Instructions and Additional Information: EMERGENCY No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JERRY PICHA — Signature: [signature] — Date: Month 12 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID McNULTY — Signature: [signature] — Date: Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Date: Month 12 Day 23 Year 91

GENERATOR / TRANSPORTER / FACILITY

ase of a spill call the Indiana Office of Er onmental Respon t 317/241-4336 ( y or night) and the National Response Center at 800/424-8802 202/426-2675.

INA 0596212

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ILD982879900 Manifest Document No. 00033
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number INA 0624121

4. Generator's Phone ( 708-431-4810

B. State Generator's ID ILD971903009

5. Transporter 1 Company Name
Wills Trucking Co.

6. Use EPA ID Number ORD069139409

C. State Transporter's ID 1841

D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number INDD079111146

G. State Facility's ID

H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. CHM-E NA 9189 (D018) | 001 | DT | 25 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24454
Truck # 15143

K. Handling Codes for Wastes Listed Above
Net 48440#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Jerry Pinus — Signature: [signature] — Date: Month 12 Day 26 Year 91

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Sharon Bone — Signature: Sharon Bone — Date: Month 12 Day 26 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hetzmann — Signature: [signature] — Date: Month 12 Day 27 Year 91

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INA 0624121

ise of a spill call the Indiana Office of Environmental Respor 317/241-4336 (day or night) and the
ational Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00034
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624120
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OEM-E NA 9189 (D018) | 001 | DT | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24455
Truck # 15141

K. Handling Codes for Wastes Listed Above
Net 49080 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pina
Signature: [signature]
Date: Month 12 Day 26 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone
Signature: Jesse E Bone
Date: Month 12 Day 26 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy Hutmacher
Signature: [signature]
Date: Month 12 Day 27 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0624120

...ase of a spill call the Indiana Office of Environmental Respon... at 317/241-4336 (day or night) and the ...tional Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 6 0 0 3 5
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624119
B. State Generator's ID: IL0971983009
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-K NA 9189 (D018) | 0 0 1 | D T | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864 Truck 15142
WO # 24456

K. Handling Codes for Wastes Listed Above
Net 48600#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picus
Signature: [signature]
Date: Month 1 2 Day 26 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JERRY HENRY
Signature: [signature]
Date: Month 1 2 Day 26 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 1 2 27 91

GENERATOR / TRANSPORTER / FACILITY

INA 0624119

...se of a spill call the Indiana Office of Environmental Respor... t 317/241-4336 (day or night) and the ...tional Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD98480790 — Manifest Document No.: 00036
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624118
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IMD078911146
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24457
Truck # 15144

K. Handling Codes for Wastes Listed Above
NCR 52080
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Pierce — Signature — Date: Month 1 Day 26 Year 91

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Terry Compton — Signature — Date: Month 1 Day 26 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

UNIT 0674 C

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00037
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624117
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 0002~~5~~ 29 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24529

K. Handling Codes for Wastes Listed Above
Net 57040 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pecua
Signature: [signature]
Date: Month 12 Day 29 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger L Waters
Signature: Roger L Waters
Date: Month 12 Day 29 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
Per John Courtney 12/30/91 [initials]

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Date: Month 12 Day 30 Year 91

GENERATOR / TRANSPORTER / FACILITY

ase of a spill call the Indiana Office of Environmental Respor t 317/241-4336 (day or night) and the
tional Response Center at 800/424-8802 202/426-2675.

INA 0624117

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

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Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00038
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624116
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24530

K. Handling Codes for Wastes Listed Above
Mel 50263
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Piccia
Signature: [signature]
Date: Month 12 Day 29 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David McNulty
Signature: David McNulty
Date: Month 12 Day 29 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Date: Month 12 Day 30 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0624116

ase of a spill call the Indiana Office of Environmental Respon t 317/241-4336 (day or night) and the
ional Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00039
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4818

A. State Manifest Document Number: INA 0624115
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00023 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24531

K. Handling Codes for Wastes Listed Above
Net 50480
D81 Landfill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picus
Signature: [signature]
Date: Month 12 Day 29 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: [signature]
Date: Month 12 Day 29 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 12 Day 30 Year 91

GENERATOR / TRANSPORTER / FACILITY

ase of a spill call the Indiana Office of Environmental Respo[illegible] 317/241-4336 (day or night) and the
[illegible]ional Response Center at 800/424-8802 202/426-2675.

INA 0624115

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA ... OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00040
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624114
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 00023 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24532

K. Handling Codes for Wastes Listed Above
Net 500600
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Pius
Signature: [signature]
Date: Month 12 Day 29 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JERRY HENRY
Signature: [signature]
Date: Month 12 Day 29 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 12 Day 30 Year 91

GENERATOR / TRANSPORTER / FACILITY

INA 0624114

...ase of a spill call the Indiana Office of Environmental Respon... ...t 317/241-4336 (day or night) and the ...ional Response Center at 800/424-8802 ...202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1 TOP MAIL TO GENERATOR

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I·L·D·9·8·4·8·0·7·9·9·0 | Manifest Document No. 0004-1 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number INA 0624113

B. State Generator's ID IL0971903009

4. Generator's Phone ( 708-431-4810

5. Transporter 1 Company Name
Wills Trucking Co.

6. Use EPA ID Number O·H·D·0·6·8·9·1·3·4·0·9

C. State Transporter's ID 1841

D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number I·N·D·0·7·8·9·1·1·1·4·6

G. State Facility's ID

H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00.025 | T | D018 |
| b. | | | | | |
| c. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24533

K. Handling Codes for Wastes Listed Above
081 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Larry Picha | Signature: Larry Picha | Date Month Day Year: 12 29 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone | Signature: Jesse E. Bone | Date Month Day Year: 12 29 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space
Reject and return to Generator for free liquids and overweight per telcon w/John Courtnery, and Megan Henley, CWM, 12/30/91

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted

INA 0624113

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0042
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596193
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00021 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24559

K. Handling Codes for Wastes Listed Above
Ref 45220 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Pina — Signature: [signature] — Date: Month 12 Day 30 Year 91

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID McNulty — Signature: [signature] — Date: Month 12 Day 30 Year 91
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Date: Month 12 Day 31 Year 91

INA 0596193

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of Environmental Respon at 317/241-4336 (day or night) and the
ional Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No 2050-0039 Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00043
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number: INA 0596192

4. Generator's Phone ( 708-431-4810

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.

6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9

C. State Transporter's ID: 1841

D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:

8. Use EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID:

H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | Waste No |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00020 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24560

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 12 Day 30 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: D Mills
Date: Month 12 Day 30 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
Reject and return the load to the Generator, unable to stabilize free liquids per telcon w/Jerry Cross(ENRAC), and Kurt Uhen, CWM, 12/31/91

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name:
Signature:
Month Day Year

GENERATOR

TRANSPORTER

FACILITY

case of a spill call the Indiana Office of Environmental Respr at 317/241-4336 (day or night) and the
tional Response Center at 800/424-88 r 202/426-2675.

INA 0596192

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I·L·D·9·8·4·8·0·7·9·9·0 Manifest Document No. 00044

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0596191

B. State Generator's ID IL0971903009

5. Transporter 1 Company Name Wills Trucking Co.

6. Use EPA ID Number O·H·D·0·6·8·9·1·3·4·0·9

C. State Transporter's ID 1841

D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number I.N.D.0.7.8.9.1.1.1.4.6

G. State Facility's ID

H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00020 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24561

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picus | Signature: [signature] | Date Month 12 Day 30 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JERRY HENRY | Signature: [signature] | Date Month 12 Day 30 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space
Reject and return load to Generator unable to stabilize free liquids, per ~~xxxx~~ telcon w/Jerry Cross(WENRAC) and Kurt Uhen, CWM, 12/31/91

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19
Printed/Typed Name | Signature | Month Day Year

GENERATOR
TRANSPORTER
FACILITY

INA 0596191

In case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12 pitch) typewriter.) Form Approved OMB No 2050-0039 Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I·L·D·9·8·4·8·0·7·9·9·0 Manifest Document No. 00045
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0596190
B. State Generator's ID IL0971903009

5. Transporter 1 Company Name
Wills Trucking Co.

6. Use EPA ID Number O·H·D·0·6·8·9·1·3·4·0·9

C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number I·N·D·0·7·8·9·1·1·1·4·6

G. State Facility's ID
H. Facility's Phone 219-447-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

| | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00021 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24562

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

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Printed/Typed Name: Larry Picha — Signature: Larry Picha — Date: Month 12 Day 30 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger I Waters — Signature: Roger I Waters — Date: Month 12 Day 30 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
Reject and return load to Generator unable to stabilized free liquids, per telcon w/Jerry Cross(ENRAC), and Kurt Uhen, ~~EMX~~ CWM, 12/31/91

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19
Printed/Typed Name — Signature — Date: Month Day Year

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call the Indiana Office of Environmental Resp at 317/241-432 day or night) and the National Response Center at 800/424-8 or 202/426-2675.

INA 0596190

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 9 8 4 8 0 7 9 9 0
Manifest Document No. 00046
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0596189
B. State Generator's ID IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: D H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 0002 24* T | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24563

K. Handling Codes for Wastes Listed Above
Net 48180 #0
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Picha — Signature: J. Picha — Date: Month 12 Day 30 Year 91

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone — Signature: Jesse E. Bone — Date: Month 12 Day 30 Year 91
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY
19. Discrepancy Indication Space
*Per J. Courtney 12/31/91 MH

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Amos Hibbard — Signature — Date: Month Day Year

INA 0596189

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the
ational Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0 — Manifest Document No.: 0004 7
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596188

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.

6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9

C. State Transporter's ID: 1841

D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:

8. Use EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID:

H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OKM-E NA 9189 (D018) | 0.0.1 | D.T | 0.0.0.2.1 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24564

K. Handling Codes for Wastes Listed Above
Net 45480#
D81 LANDFill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Piella — Signature: [signature] — Date: Month 12 Day 31 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton — Signature: [signature] — Date: Month 12 Day 31 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year 01 03 92

GENERATOR / TRANSPORTER / FACILITY

ase of a spill call the Indiana Office of Er onmental Respon t 317/241-4336 ( y or night) and the National Response Center at 800/424-8802 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 0 4 8
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596187
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 0 0 0 2 1 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24565

K. Handling Codes for Wastes Listed Above
Net 45280
D8/LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha
Signature: [signature]
Month: 12 Day: 31 Year: 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Waters
Signature: [signature]
Month: 1 Day: 2 Year: 1

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month: Day: Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month: 01 Day: 02 Year: 92

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Respon... at 317/241-4336 (... or night) and the National Response Center at 800/424-8802 or 202/426-2675.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00049
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596186
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24566

K. Handling Codes for Wastes Listed Above
Net 46180#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month 12 Day 2 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID McNulty
Signature: [signature]
Month 12 Day 2 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 01 Day 02 Year 92

GENERATOR

TRANSPORTER

FACILITY

INA 0596186

ase of a spill call the Indiana Office of Environmental Respo[illegible] at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 [illegible] 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 000501
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone (708-431-4810

A. State Manifest Document Number: INA 0596185
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00021 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24567

K. Handling Codes for Wastes Listed Above
Net 45740 #
081 LANDFill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 12 Day 31 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: D. Mills
Date: Month 12 Day 31 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 91

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call the Indiana Office of Enviro...ental Response at ...7/241-4336 (day night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00051
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596194
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24568

K. Handling Codes for Wastes Listed Above
Net 46680#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 12 Day 01 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jerry Henry
Signature: [signature]
Date: Month 12 Day 01 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 01 Day 02 Year 92

GENERATOR / TRANSPORTER / FACILITY

case of a spill call the Indiana Office of Environmental Respc at 317/241-4336 (day or night) and the tional Response Center at 800/424-880? or 202/426-2675.

INA 0596194

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 - TSD MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990 — Manifest Document No.: 00052
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address:
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone: 708-431-4810

A. State Manifest Document Number: INA 0596195
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above:
Profile # AN0864
WO # 24569

K. Handling Codes for Wastes Listed Above:
Mt 48920 #5
D81 LANDFILL

15. Special Handling Instructions and Additional Information:
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pilla — Signature: [signature] — Date: Month 12 Day 31 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E Bone — Signature: Jesse E. Bone — Date: Month 12 Day 31 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year 1 8 92

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

Please or a spill call the Indiana Office of Environmental Response National Response Center at 800/424-8802 202/426-2675.

INA 0596195

COPY 1 TO MAIL TO GENERATOR

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD98ARD7990
Manifest Document No.: 00053
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596197
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24617

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 46280

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 02 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger L Waters
Signature: [signature]
Date: Month 01 Day 02 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Date: Month 01 Day 03 Year 92

GENERATOR
TRANSPORTER
FACILITY

INA 0596197

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

ase of a spill call the Indiana Office of E onmental Respor
National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990 — Manifest Document No.: 00054 — 2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596198

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.

6. Use EPA ID Number: OHD068913409

C. State Transporter's ID: 1841

D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:

8. Use EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146

G. State Facility's ID:

H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00023 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24618

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 45260

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: Jerry Picha — Date: Month 01 Day 02 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David McNally — Signature: David McNally — Date: Month 01 Day 02 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue — Signature: Tracey Relue — Date: Month 01 Day 03 Year 92

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of E... ...onmental Respon... ...24 ...4336 ...of nights and the National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00055
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596199
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24619

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 4534D

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 03 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JERRY HENRY
Signature: [signature]
Date: Month 01 Day 03 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Month 01 Day 03 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0596199

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Response ...
National Response Center at 800/424-8802 ... 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 9 8 4 8 0 7 9 9 0
Manifest Document No. 00056
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number
INA 0596200
B. State Generator's ID
IL0971903009

5. Transporter 1 Company Name
Wills Trucking Co.
6. Use EPA ID Number
D H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number
I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | L Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | . . .23 | T | D018 |
| b. | . . | . | . . . . . | | |
| c. | . . | . | . . . . . | | |
| d. | . . | . | . . . . . | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24620

K. Handling Codes for Wastes Listed Above
OBL Landfill
net 48820

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR
Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 01 Day 03 Year 92

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone
Signature: Jesse E. Bone
Date: Month 01 Day 03 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month . Day . Year .

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Date: Month 01 Day 03 Year 92

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INA 0596200

National Response Center at 800/424-8802; 202/426-2675.

P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL09848079900 — Manifest Document No.: 00057
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: NORTH SHORE GAS CO. 1225 S. Michigan Room 1003 Chicago, IL 60603
4. Generator's Phone: (708) 431-4810

A. State Manifest Document Number: INA 0596213
B. State Generator's ID: IL0971903009
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD06891340 9
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: ADAMS Center LANDFILL, 4636 Adams Center Rd, FORT WAYNE, IN 46806
10. Use EPA ID Number: IND078911146

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: PROFile # AN0864 WO# 24621

K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JERRY PICHA — Signature: [signature] — Date: Month 01 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID McNulty — Signature: [signature] — Date: Month 01 Day 04 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space: Load rejected per phone conversation with Jerry Cross 1/6/92. Material arrived past scheduled time. KRM

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: — Signature: — Month Day Year

GENERATOR / TRANSPORTER / FACILITY

In case of a spill call the Indiana Office of Environmental Resp... e at 317/241-433 ...ay or night) and the National Response Center at 800/424-88... or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1. TSD MAIL TO TSD STATE

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL D984807990
Manifest Document No.: 00058
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore gas Co. 122 S. Michigan Rm 1003 Chicago, IL 60603
4. Generator's Phone (708-) 931-4810

A. State Manifest Document Number: INA 0596214
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O-HD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center LANDFILL 4636 Adams Center Rd FORT WAYNE, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00023 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864 WO# 24638
K. Handling Codes for Wastes Listed Above: Net 45860# D81 LANDFILL

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: D. Mills
Date: Month 1 Day 4 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Samoy [illegible]
Signature: [signature]
Month 01 Day 06 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0596214

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ational Response Center at 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990 — Manifest Document No.: 00059
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co. 1225 S. Michigan Room 1003 Chicago, IL 60603
4. Generator's Phone (708) 431-4810

A. State Manifest Document Number: INA 0596215
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill 4636 Adams Center Rd Fort Wayne, IN 46806
10. Use EPA ID Number: IN.D078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864 WO# 24639

K. Handling Codes for Wastes Listed Above: Net 51240 # D81 Landfill

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Piella — Signature: [signature] — Date: Month 01 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Sharon Bone — Signature: Sharon Bone — Date: Month 01 Day 04 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month 01 Day 06 Year 92

GENERATOR — TRANSPORTER — FACILITY

INA 0596215

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Resp... National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL D984807990
Manifest Document No.: 00060
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co. 122 S. Michigan Rm 1003 Chicago, IL 60603
4. Generator's Phone: 708 + 431-4810

A. State Manifest Document Number: INA 0596216
B. State Generator's ID: IL0971903009
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Adams Center Landfill 4636 Adams Center Rd Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00023 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864 WO # 24640
K. Handling Codes for Wastes Listed Above: Net 46260 # D81 Landfill

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-7721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse Bone
Signature: Jesse Bone
Date: Month 01 Day 04 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 18.
Printed/Typed Name: [signature]
Signature: [signature]
Month 01 Day 06 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0596216

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

National Response Center at 800/424-8802 202/426-2675.

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P.O. Box 7035
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL D984807990
Manifest Document No.: 00061
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore GAS Co. 122 S. Michigan Rm 1003 Chicago IL 60603
4. Generator's Phone (708) 431-4810

A. State Manifest Document Number: INA 0596217
B. State Generator's ID: IL0971903009
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Adams Center Landfill 4636 Adams Center Rd Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864 WO # 24641
K. Handling Codes for Wastes Listed Above: Net 43960 D81 LANDFILL

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 05 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton
Signature: [signature]
Date: Month 01 Day 05 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 01 Day 06 Year 92

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

National Response Center at 800/424-8802 or 202/426-2675.

INA 0596217

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL D984807990
Manifest Document No.: 00062
2. Page 1 of 1
Information in the shaded areas is not required by Federal law. Items D, F, H and I are requir State law.

3. Generator's Name and Mailing Address: North Shore Gas Co. 122 S. Michigan Room 1003 Chicago, IL 60603
4. Generator's Phone (708) 437-4810

A. State Manifest Document Number: INA 0596218
B. State Generator's ID: IL0971903009
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
7. Transporter 2 Company Name:
8. Use EPA ID Number:
9. Designated Facility Name and Site Address: Adams Center Landfill 4636 Adams Center Rd Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864 WO # 24774
K. Handling Codes for Wastes Listed Above: Net 45780 # 081 Landfill

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-7721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 05 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger L Waters
Signature: [signature]
Date: Month 01 Day 05 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 01 06 92

GENERATOR / TRANSPORTER / FACILITY

INA 0596218

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ional Response Center at 800/424-880... 202/426-2675.

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OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I.L.D.984807940
Manifest Document No.: 00063
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co. 122 S. Michigan Rm 1003 Chicago, IL 60603
4. Generator's Phone: (708) 431-4810

A. State Manifest Document Number: INA 0596219
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OH.D.068.913.409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill 4636 Adams Center Rd Fort Wayne, IN 46806
10. Use EPA ID Number: IN.D078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 25 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864 WO# 24809

K. Handling Codes for Wastes Listed Above: Net 47360# D8/Landfill

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 06 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Craig L. Hebb
Signature: Craig L Hebb
Date: Month 01 Day 06 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Samoy [signature]
Signature: [signature]
Month 01 Day 07 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0596219

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...onal Response Center at 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00064
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are require State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0596196
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OHM-E NA 9189 (D018) | 0.0.1 | D.T | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24810

K. Handling Codes for Wastes Listed Above
Net 43340
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

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Printed/Typed Name: Jerry Piella
Signature: [signature]
Date: Month 01 Day 06 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton
Signature: [signature]
Date: Month 01 Day 06 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 01 Day 07 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0596196

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

National Response Center at 800/424-8802 202/426-2675

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 0 6 5
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone: 708-431-4810

A. State Manifest Document Number: INA 0624151
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O N D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 2 2 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24811

K. Handling Codes for Wastes Listed Above
Net 44960
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 06 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: D. Mills
Date: Month 01 Day 06 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [signature]
Month Day Year 01 07 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624151

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

Use of a spill call the Indiana Office of Environmental Response
National Response Center at 800/424-8802 or 202/426-2675.

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 0 6 6
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624152
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 25 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24812

K. Handling Codes for Wastes Listed Above
NA 49540 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 06 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone
Signature: Jesse E. Bone
Date: Month 01 Day 06 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [signature]
Month 01 Day 07 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624152

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...case of a spill call the Indiana Office of Environmental Respo... ...ational Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00067
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624153
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24813

K. Handling Codes for Wastes Listed Above
Net 48280 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Larry Picula
Signature: [signature]
Date: Month 01 Day 06 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kelly C Johnson
Signature: Kelly C Johnson
Date: Month 01 Day 06 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [signature]
Month Day Year 01 07 92

GENERATOR
TRANSPORTER
FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INA 0624153

...ase of a spill call the Indiana Office of Environmental Respo...
...ational Response Center at 800/424-8802 202/426-2675.

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 0 6 8
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL. 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624154
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24814

K. Handling Codes for Wastes Listed Above
Net 472404
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month 0 1 Day 0 6 Year 9 2

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David McNulty
Signature: [signature]
Month 0 1 Day 0 6 Year 9 2

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 0 1 0 7 9 2

GENERATOR / TRANSPORTER / FACILITY

INA 0624154

EPA Form 8700-22
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 0 6 9
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624155
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24844

K. Handling Codes for Wastes Listed Above
Net 46,740#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 07 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jim Grant
Signature: Jim Grant
Date: Month 01 Day 07 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Date: Month 01 Day 08 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624155

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

National Response Center at 800/424-8802 202/426-2675

...OF ENVIRONMENTAL MANAGEMENT
...OF SOLID AND HAZARDOUS WASTE MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 0 7 0
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624156
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OEM-E NA 9189 (D018) | 0 0 1 | D T | 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24845

K. Handling Codes for Wastes Listed Above
Net 42320#
D87 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 07 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Frank Haines
Signature: [signature]
Date: Month 01 Day 07 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 01 08 92

GENERATOR
TRANSPORTER
FACILITY

INA 0624156

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...tional Response Center at 800/424-8802 202/426-2675.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I·L·D·9·8·4·8·0·7·9·9·0
Manifest Document No.: 0·0·0·7·1
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624157
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O·N·D·0·6·8·9·1·3·4·0·9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24846

K. Handling Codes for Wastes Listed Above
Net 48120#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pilla
Signature: [signature]
Date: Month 01 Day 07 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E Bone
Signature: Jesse E Bone
Date: Month 01 Day 07 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Date: Month 01 Day 08 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624157

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Respo... 1(724)...336 (... or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00072
2. Page 1 of 1
Information in the shaded areas is not required by Federal law. Items D, F, H and I are require State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624158
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt./Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24847

K. Handling Codes for Wastes Listed Above
MH 44440
081 Landfill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 07 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID Mills
Signature: [signature]
Date: Month 01 Day 07 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Date: Month 01 Day 08 Year 92

GENERATOR
TRANSPORTER
FACILITY

INA 0624158

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

National Response Center at 800/424-8802 2027426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 0 7 3
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624159
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 0 0 0 2 3 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24848

K. Handling Codes for Wastes Listed Above
NCA 46140 #3
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Larry Picha
Signature: [signature]
Date: Month 01 Day 07 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Larry Compton
Signature: [signature]
Date: Month 01 Day 07 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 01 07 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624159

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

National Response Center at 800/424-8807 202/426-2675

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I·L·D·9·8·4·8·0·7·9·9·0
Manifest Document No. 0·0·0·7·4
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number
INA 0624160
B. State Generator's ID
IL0971903009

5. Transporter 1 Company Name
Wills Trucking Co.
6. Use EPA ID Number
O·H·D·0·6·8·9·1·3·4·0·9
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number
I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. GEN-E NA 9189 (D018) | 0.0.1 | D.T | 00024 | Y | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24849

K. Handling Codes for Wastes Listed Above
N-Ct 4645
DSI LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Picha — Signature: [signature] — Date: Month 6 Day 16 Year 92

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David McCarty — Signature: [signature] — Date: Month 6 Day 16 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Sandy Hamaker — Signature: [signature] — Date: Month 6 Day 17 Year 92

INA 0624160

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

CALL OIL & HAZ. SPILL HOTLINE 800/424-8802 202/426-2675
National Response Center at 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00075
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624161
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24850

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 48700

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 01 Day 07 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kraig L Hebb
Signature: Kraig L Hebb
Date: Month 01 Day 07 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Date: Month 01 Day 09 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624161

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Resp... ...ational Response Center at 800/424-8802 /202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00076
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624162
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24851

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 48340

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jeff Picus
Signature: [signature]
Date: Month 01 Day 07 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kelly Johnson
Signature: Kelly Johnson
Date: Month 01 Day 07 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Date: Month 01 Day 09 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624162

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Respo...
...tional Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 000777
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number: INA 0624163

4. Generator's Phone: 708-431-4810

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24852

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 46100

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 01 Day 08 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Nick DAmico
Signature: Nick Damico
Date: Month 01 Day 08 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Date: Month 01 Day 09 Year 92

GENERATOR
TRANSPORTER
FACILITY

INA 0624163

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...onal Response Center at 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 000 78
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624164
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OKM-E NA 9189 (D018) | 0.0.1 | D.T | 0.0024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24853

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 48500

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picua
Signature: [signature]
Date: Month 01 Day 08 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Scott A. Shultz
Signature: Scott A Shultz
Date: Month 01 Day 08 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Date: Month 01 Day 09 Year 92

GENERATOR
TRANSPORTER
FACILITY

INA 0624164

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ational Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00079
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624165
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OHM-E NA 9189 (D018) | 0.0.1 | D.T | 00.0.24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24854

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 49620

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 08 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Maurice Scott
Signature: [signature]
Date: Month 01 Day 08 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Date: Month 01 Day 09 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624165

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Respo... ...tional Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 000 80
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law. Items D, F, H and I are requir State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624166
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OHM-E NA 9189 (D018) | 0.0.1 | D.T | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24855

K. Handling Codes for Wastes Listed Above
P81 Landfill
net 43140

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 08 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Frank Grimes
Signature: Frank Grimes
Date: Month 01 Day 08 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tracey Relue
Signature: Tracey Relue
Date: Month 01 Day 09 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624166

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

Use of a split call the Indiana Office of Environmental Response (IDEM) and the National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984809290
Manifest Document No.: 000 81
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number: INA 0624167
B. State Generator's ID: IL0971903009

4. Generator's Phone ( 708-431-4810

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OKD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 000.23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AR0864
WO # 24922

K. Handling Codes for Wastes Listed Above
Ref 45280
DELLANO FILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: Jerry Pinus
Signature
Date: Month 6 Day 16 Year 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: D. Mills
Date: Month 6 Day 16 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Amy Kirchner
Signature
Date: Month Day Year 07 10 92

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INA 0624167

State of Illinois Environmental Protection Agency
National Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00082
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624168
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. CHM-E NA 9189 (D018) | 001 | DT | 00023 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24923

K. Handling Codes for Wastes Listed Above
NET 45920 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Picus — Signature — Date: Month 01 Day 08 Year 92

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton — Signature — Date: Month 01 Day 09 Year 92
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Sandy Hutmacher — Signature — Date: Month 01 Day 10 Year 92

INA 0624168

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1 - TO MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00083
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624169
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 000.24 | T. | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24924

K. Handling Codes for Wastes Listed Above
Net 49160#
08 / LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 08 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Sharon Bone
Signature: Sharon Bone
Date: Month 01 Day 08 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sammy Hutmacher
Signature: [signature]
Date: Month 01 Day 10 Year 92

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INA 0624169

...ional Response Center at 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ILD984807990 Manifest Document No. 000 64 2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but Items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0624170

B. State Generator's ID ILO971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24425

K. Handling Codes for Wastes Listed Above
Net 44040 to DELLANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Picha — Signature: [signature] — Date: Month 08 Day 18 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
TRANSPORTER — Printed/Typed Name: Jesse E Bone — Signature: Jesse E Bone — Date: Month 08 Day 18 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY Hutmacher — Signature: [signature] — Date: Month 08 Day 21 Year 92

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INA 0624170

CERCLA/SARA/RCRA/CWA/SDWA/TSCA/EPCRA/MPRSA/MMPA/OPA/CAA Emergency Response Center at 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 9 8 4 8 0 7 9 9 0
Manifest Document No. 000 85
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0624171
B. State Generator's ID IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: I N D 0 6 3 9 1 3 4 0 9
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OXM-X NA 9189 (D018) | 0.0.1 | D.T | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24926

K. Handling Codes for Wastes Listed Above
Net 48020#
D81 LAND Fill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Jerry Picus — Signature: [signature] — Date (Month Day Year): 6 16 92

17. Transporter 1 Acknowledgement of Receipt of Materials
TRANSPORTER — Printed/Typed Name: David McNally — Signature: David McNally — Date (Month Day Year): 6 16 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year):

19. Discrepancy Indication Space
FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Date (Month Day Year): 07 10 92

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ational Response Center at 800/424-880; ...ormation ... 202/426-2675.

INA 0624171

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ILD984807990 | Manifest Document No. 000876 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0624172

B. State Generator's ID ILD971983009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: NJD068913409
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: IND072911146
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OXM-K HA 9189 (D018) | 001 | DT | 00023 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24927

K. Handling Codes for Wastes Listed Above
Nd 46160
D81LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pucha | Signature | Date Month 01 Day 08 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jim Grant | Signature | Date Month 01 Day 08 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tommy Hernandez | Signature | Date Month 01 Day 10 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624172

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1 - TOP MAIL TO GENERATOR

Call the National Response Center at 800/424-8802 202/426-2675 to report spills and hazardous substance releases

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 000 8 7
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624173
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OHM-E NA 9189 (D018) | 001 | DT | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24928

K. Handling Codes for Wastes Listed Above
Net 48620#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 09 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Maurice Scott
Signature: [signature]
Date: Month 01 Day 09 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 01 Day 13 Year 92

GENERATOR
TRANSPORTER
FACILITY

INA 0624173

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...onal Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00008
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624174
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24929

K. Handling Codes for Wastes Listed Above
Net 47520
081 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pisha
Signature: [signature]
Date: Month 01 Day 09 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GARY MILLER
Signature: [signature]
Date: Month 01 Day 09 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 01 15 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624174

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ease of a spill call the Indiana Office of Environmental Emergency ...tional Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 9 8 4 8 0 7 9 9 0
Manifest Document No. 00084
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0624175
B. State Generator's ID ILO971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. GEN-X NA 9189 (D018) | 0.0.1 | D.T | 23 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24930

K. Handling Codes for Wastes Listed Above
NJ 4540 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Pirus — Signature: [signature] — Date: Month 0 1 Day 0 9 Year 9 2

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kelly Johnson — Signature: Kelly Johnson — Date: Month 0 1 Day 0 9 Year 9 2
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Amy Wilmoth — Signature: [signature] — Date: Month 0 1 Day 1 3 Year 9 2

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INA 0624175

tional Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990 — Manifest Document No.: 00090
2. Page 1: 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address: North Shore Gas Co. 122 S. Michigan Rm 1003 Chicago, IL 60603
4. Generator's Phone: 708 + 431-4810

A. State Manifest Document Number: INA 0596220
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Adams Center Landfill, 4636 Adams Center Rd, Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above: Profile # AN0864 WO# 24931

K. Handling Codes for Wastes Listed Above: Net 48760 # D81 Land Fill

15. Special Handling Instructions and Additional Information: Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature: [signature] — Date: Month 01 Day 09 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kraig L. Hebb — Signature: Kraig L. Hebb — Date: Month 01 Day 09 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [illegible] — Signature: [signature] — Month 01 Day 13 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0596220

Case of a spill call the Indiana Office of Environmental Response at 317/724-1433 or for night and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00097
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
127 S. Michigan Room 1003
Chicago, IL 60603
4. Generator's Phone ( 708 - 431 - 4810

A. State Manifest Document Number: INA 0596221
B. State Generator's ID: IL057198009
C. State Transporter's ID: 0591
D. Transporter's Phone: 800-776-0337

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
7. Transporter 2 Company Name:
8. Use EPA ID Number:

E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Rd
Fort Wayne, IN 46806
10. Use EPA ID Number: IND078911146

G. State Facility's ID:
H. Facility's Phone: (219) 447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN086A
WO# 24932

K. Handling Codes for Wastes Listed Above
Ref 57960 #
D8 / Landfill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: Jerry Picha
Signature: J. Picha
Date: Month 0 1 Day 0 9 Year 9 2

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Larry Braden
Signature: Larry Braden
Date: Month 0 1 Day 0 9 Year 9 2

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible]
Signature: [illegible]
Date: Month 0 1 Day 1 3 Year 9 2

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 1 - TSD MAIL TO GENERATOR

INA 0596221

Call the Hotline for Information on Hazardous Substances and Emergency Response Center at 800/424-880. 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I·L·D·9·8·4·8·0·7·9·9·0 — Manifest Document No. 0·0·0·2·2
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number: INA 0624276

4. Generator's Phone ( 708-431-4810

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O·H·D·0·6·8·9·1·3·4·0·9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 0.0.0.2.3 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24933

K. Handling Codes for Wastes Listed Above
Net 45660 #
OBI LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: JERRY PICHA — Signature: [signature] — Date: Month 01 Day 07 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
TRANSPORTER — Printed/Typed Name: Terry Compton — Signature: [signature] — Date: Month 01 Day 07 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: SANDY LOCHTEFELD — Signature: [signature] — Date: Month 01 Day 7 Year 92

INA 0624276

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ational Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 0 9 3
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624277
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 0 0 0 2 5 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24934

K. Handling Codes for Wastes Listed Above
N 49360 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 01 Day 10 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shawn Bone
Signature: Shawn Bone
Date: Month 01 Day 10 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [illegible]
Month Day Year 01 14 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624277

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ational Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 9 8 4 8 8 7 9 9 0
Manifest Document No. 0 0 0 9 4
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number
INA 0624278

B. State Generator's ID
ILD971903009

4. Generator's Phone ( 708-431-4810

5. Transporter 1 Company Name
Wills Trucking Co.

6. Use EPA ID Number
O H D 0 6 8 9 1 3 4 0 9

C. State Transporter's ID 1841

D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number
I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID

H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24935

K. Handling Codes for Wastes Listed Above
Net 48705#.
D8/LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: JERRY PICHA — Signature: [signature] — Date (Month Day Year): 8 1 92

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: DAVID MILLS — Signature: [signature] — Date (Month Day Year): 8 1 92

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date (Month Day Year)

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] — Signature: [signature] — Date (Month Day Year): 8 1 92

INA 0624278

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

Key-Net Emergency Response Center 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I·L·D·9·8·4·8·0·7·9·9·0
Manifest Document No.: 0·0·0·9·5
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624279
B. State Generator's ID: IL0971983009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 000.24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
NO # 24936

K. Handling Codes for Wastes Listed Above
Net 47780#
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 10 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse Bone
Signature: Jesse Bone
Date: Month 01 Day 10 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 01 10 92

INA 0624279

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (8/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I·L·D·9·8·4·8·0·7·9·9·0
Manifest Document No.: 0·0·0·9·6
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624280
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O·H·D·0·6·8·9·1·3·4·0·9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 2.2 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24937

K. Handling Codes for Wastes Listed Above
Net 45000 #
D81 LANDFill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 0·1 Day 1·3 Year 9·2

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kelly Johnson
Signature: Kelly Johnson
Date: Month 0·1 Day 1·3 Year 9·2

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [illegible]
Month Day Year 8/1/92

GENERATOR / TRANSPORTER / FACILITY

INA 0624280

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Respo...
...tional Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00097
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624281
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 24938

K. Handling Codes for Wastes Listed Above
Net 47880 #6
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Pilna
Signature: [signature]
Date: Month 01 Day 13 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MAURICE SCOTT
Signature: [signature]
Date: Month 01 Day 13 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 01 Day 14 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624281

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...tional Response Center at 800/424-880 202/426-2675

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990 — Manifest Document No.: 0019.8
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address:
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624282
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OEM-E NA 9189 (D018) | 001 | DT | 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above:
Profile # AN0864
WO # 24939

K. Handling Codes for Wastes Listed Above:
N# 49100 D8 LANDFILL

15. Special Handling Instructions and Additional Information:
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: JERRY PICHA — Signature: [signature] — Month 01 Day 13 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Craig L. Hebb — Signature: Craig L Hebb — Month 01 Day 13 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19
Printed/Typed Name: [signature] — Signature: [signature] — Month 01 Day 14 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624282

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

Case of a spill call the Indiana Office of Environmental Response at 317/241-4836 or highway and the National Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 10-079
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624283
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 000.24 #22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25337

K. Handling Codes for Wastes Listed Above
Net 43640 #
D81 LAND FILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month 01 Day 14 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David McNulty
Signature: [signature]
Month 01 Day 14 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space
*Per Jerry Cross 1/17/92 MJ

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [signature]
Month 01 Day 15 Year 92

GENERATOR
TRANSPORTER
FACILITY

INA 0624283

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

National Response Center at 800/424-8807 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I·L·D·9·8·4·8·0·7·9·9·0
Manifest Document No.: 0·0·1·0·0
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624284
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O·H·D·0·6·8·9·1·3·4·0·9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | *17 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25338

K. Handling Codes for Wastes Listed Above
net 33420#s
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 01 Day 14 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kraig L. Hebb
Signature: Kraig L Hebb
Date: Month 01 Day 14 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
*Per Jerry Cross 1/17/92 MH

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [illegible]
Month Day Year 01 15 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624284

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ase of a spill call the Indiana Office of Environmental Management
...ional Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I·L·D·9·8·4·8·0·7·9·9·0 Manifest Document No. 0·0·1·0·1

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0624285

B. State Generator's ID IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.

6. Use EPA ID Number: O·H·D·0·6·8·9·1·3·4·0·9

C. State Transporter's ID 1841

D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6

G. State Facility's ID

H. Facility's Phone 219-447-5585

GENERATOR

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OHM-E NA 9189 (D018) | 0.0.1 | D.T | 4 19 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25339

K. Handling Codes for Wastes Listed Above
NET 3880 #s
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Larry Picha Signature: [signature] Date: Month 01 Day 14 Year 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kelly Johnson Signature: [signature] Date: Month 01 Day 14 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
* Per Jerry Cross 1/17/92 MN

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature] Signature: [signature] Month Day Year 01 13 92

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INA 0624285

For a spill call the Indiana Office of Environmental Emergency Response or the National Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 0 0 1 0 2
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624286
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 2 2 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25340

K. Handling Codes for Wastes Listed Above
Net 45340#
D81 LAND Fill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month: 0 1 Day: 1 4 Year: 9 2

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: D. Mills
Month: 0 1 Day: 1 4 Year: 9 2

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month: Day: Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month: 0 1 Day: 1 5 Year: 9 2

GENERATOR / TRANSPORTER / FACILITY

INA 0624286

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 - TSD MAIL TO GENERATOR

Case of a spill call the Indiana Office of Environmental Respo
National Response Center at 800/424-880 202/426-2675.

INDIANA DISPOSAL AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 001 0 3
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624287
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 22 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25341

K. Handling Codes for Wastes Listed Above
Net 48200
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picus
Signature: [signature]
Month 01 Day 14 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse F Bone
Signature: [signature]
Month 01 Day 14 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [signature]
Signature: [signature]
Month 01 Day 15 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624287

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 TSD MAIL TO GENERATOR

Please call the Indiana Office of Environmental Res. at 317/241-4331 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 9 8 4 8 0 7 9 9 0
Manifest Document No. 001041
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number
INA 0624288

B. State Generator's ID
ILD971903009

4. Generator's Phone ( 708-431-4810

5. Transporter 1 Company Name
Wills Trucking Co.

6. Use EPA ID Number
O H D 0 6 8 9 1 3 4 0 9

C. State Transporter's ID 1841

D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name

8. Use EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number
I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID

H. Facility's Phone
219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 21 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AW0864
WO # 25342

K. Handling Codes for Wastes Listed Above
Net 44900#
D8 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR
Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 01 Day 14 Year 92

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Cooper
Signature: [illegible]
Date: Month 01 Day 14 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Stanley Schwartzenberger
Signature: [illegible]
Month 01 Day 15 Year 92

INA 0624288

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

National Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00105
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624289
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OHM-E NA 9189 (D018) | 001 | DT | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25367

K. Handling Codes for Wastes Listed Above
D81
Net 46,620 lbs

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 01 Day 15 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MAURICE SCOTT
Signature: Maurice Scott
Date: Month 01 Day 15 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Megan Henley
Signature: Megan Henley
Date: Month 01 Day 16 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624289

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

case of a spiritual the Indiana Office of Environmental Resp
National Response Center at 800/424-880 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00106
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624290
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 06023 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25368

K. Handling Codes for Wastes Listed Above
D81
Net 49540#

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Pichs — Signature: Jerry Pichs — Date: Month 01 Day 15 Year 92

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone — Signature: Jesse E. Bone — Date: Month 01 Day 15 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sonny Nitowupe — Signature: [illegible] — Date: Month 01 Day 16 Year 92

INA 0624290

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

tional Response Center at 800/424-8802 or 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00107
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items E, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624291
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | *26 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25369

K. Handling Codes for Wastes Listed Above
D81
Net 51740 #

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton
Signature: [signature]
Month / Day / Year: 01 / 1 / 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month / Day / Year

19. Discrepancy Indication Space
*Per Jerry Cross 1/17/92 MT

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month / Day / Year: 01 / 16 / 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624291

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

Case of a spill call the Indiana Office of Environmental Response at 317/241-4336 (day or night) and the National Response Center at 800/424-8802 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* Form

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I·L·D·9·8·4·8·0·7·9·9·0
Manifest Document No.: 00 10 8
2. Page 1 of 1 Item State

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document: INA 0624292
B. State Generator's ID: ILD971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O.H.D.0.6.8.9.1.3.4.0.9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | [illegible] | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25370

K. Handling Codes for Wastes Listed Above
D81
Net 48,420 lbs

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha
Signature: [signature]
Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David McHully
Signature: [signature]
Month / Day / Year: 01 15 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month / Day / Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Megan Henley
Signature: Megan Henley
Month / Day / Year: 01 16 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624292

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...onal Response Center at 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00109
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624293
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 27* | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25371

K. Handling Codes for Wastes Listed Above
D81
Net 54,240 lbs

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month: 01 Day: 15 Year: 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kraig L. Hebb
Signature: Kraig L Hebb
Month: 01 Day: 15 Year: 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month: Day: Year:

19. Discrepancy Indication Space
*Per Jerry Cross 1/17/92 MIT

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Megan Henley
Signature: Megan Henley
Month: 01 Day: 16 Year: 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624293

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

Please or a split call the Indiana Office of Environmental Respo... National Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE M[redacted]
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00110
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, E, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624294
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | x 25 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25372

K. Handling Codes for Wastes Listed Above
D81
NCD 50740 #

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kelly Johnson
Signature: [signature]
Month: 0.1 Day: 1.5 Year: 9.2

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month / Day / Year

19. Discrepancy Indication Space
* Per Jerry Cross 1/17/92 MH

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19
Printed/Typed Name: [signature]
Signature: [signature]
Month / Day / Year: 01 X 6 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624294

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

tional Response Center at 800/424-880 202/426-2675

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990 — Manifest Document No.: 00111
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address:
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624337
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 27 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above:
Profile # AN0864
WO # 25422

K. Handling Codes for Wastes Listed Above:
Net 54340#
D81 LANDFILL

15. Special Handling Instructions and Additional Information:
Emergency No. 205-652-9721
Per Jerry Cross 1/17/92

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picua — Signature: [signature] — Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kraig L. Hebb — Signature: Kraig L. Hebb — Month / Day / Year: 01 16 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month / Day / Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month / Day / Year: 01 17 92

INA 0624337

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

GENERATOR — TRANSPORTER — FACILITY

Michael Response Center at 800/424-8802 202/426-2675

COPY A TOP MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00112
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624336
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5385

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 26 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25423

K. Handling Codes for Wastes Listed Above
Net 52780 #2
OIL AND FILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721
Oper Jerry Cross 1/17/92

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone
Signature: [signature]
Month / Day / Year: 01 / 16 / 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month / Day / Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Tommy [illegible] Maeser
Signature: [signature]
Month / Day / Year: 01 / 17 / 92

INA 0624336

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

GENERATOR / TRANSPORTER / FACILITY

Ritional Response Center at 800/424-8802 202/426-2675

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00113
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624338
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00023 26 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25424

K. Handling Codes for Wastes Listed Above
Net 51840 #
D81 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jeff Piella
Signature: [signature]
Month / Day / Year: 01 / 17 / 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton
Signature: [signature]
Month / Day / Year: 01 / 16 / 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month / Day / Year:

19. Discrepancy Indication Space
*Per Jerry Cress 1/17/92 [initials]

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19
Printed/Typed Name: Sandy [signature]
Signature: [signature]
Month / Day / Year: 01 / 17 / 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624338

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...ional Response Center at 800/424-8802 2027426-2675.

...ARDOUS WASTE MANAGEMENT

...polis, IN 46207-7035

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# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00114
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624339

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.

6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9

C. State Transporter's ID: 1841

D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:

8. Use EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6

G. State Facility's ID:

H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | ~~22~~ 25 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25416

K. Handling Codes for Wastes Listed Above
D81
Net 50540#

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month 01 Day 21 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jack Stout
Signature: [signature]
Month 01 Day 21 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space
* corrected per John Courtney 1/22/92 TR

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 01 22 92

GENERATOR

TRANSPORTER

FACILITY

INA 0624339

EPA Form 8700-22
Previous editions are obsolete
State Form 11865 (R/4-89)

COPY 4 TSD MAIL TO GENERATOR

...case of a spill call the Indiana Office of ...ironmental Resp... at 317/241-4330 ...ay or night) and the National Response Center at 800/424-880... or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00115
2. Page 1: 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624341
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | ~~21~~ 24 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25477

K. Handling Codes for Wastes Listed Above
D81
Net 48720#

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 01 Day 21 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Frank Grimes
Signature: Frank Grimes
Date: Month 01 Day 21 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
A corrected per John Courtney 1/22/92 TR

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: [illegible]
Signature: [illegible]
Month 01 Day 22 Year 92

GENERATOR

TRANSPORTER

FACILITY

INA 0624341

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 TOP MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 001/6
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

A. State Manifest Document Number: INA 0624327

4. Generator's Phone ( 708-431-4810

B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OHM-E NA 9189 (D018) | 001 | DT | #25 ~~21~~ | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25491

K. Handling Codes for Wastes Listed Above
D81
Net 49980#s

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR
Printed/Typed Name: Jerry Picha
Signature: [signature]
Date: Month 01 Day 21 Year 92

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: D. Mills
Date: Month 01 Day 21 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY
19. Discrepancy Indication Space
# corrected per John Courtney 1/22/92 TR

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Cindy Hutmacher
Signature: [signature]
Date: Month 01 Day 22 Year 92

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 - TED MAIL TO GENERATOR

INA 0624327

case of a spill call the Indiana Office of Environmental Resp
ational Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I·L·D·9·8·4·8·0·7·9·9·0
Manifest Document No.: 00117
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624326
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O·H·D·0·6·8·9·1·3·4·0·9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I·N·D·0·7·8·9·1·1·1·4·6
G. State Facility's ID
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. OEM-E NA 9189 (D018) | 0.0.1 | D.T | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25638

K. Handling Codes for Wastes Listed Above
Net 48360#
081 LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jerry Picha — Signature: [signature] — Date: Month 01 Day 24 Year 92

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David McNally — Signature: [signature] — Date: Month Day Year 01 24 92
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Larry Kraus — Signature: [signature] — Date: Month 01 Day 27 Year 92

INA 0624326

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

WHITE — TO GENERATOR

Report a spill call the Indiana Office of Environmental Management National Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00118
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624328
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00027 * | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25639

K. Handling Codes for Wastes Listed Above
Net 54600#
D81 Landfill

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picua
Signature: [signature]
Month 01 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Mills
Signature: D. Mills
Month 01 Day 24 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space
* per John Courtney 1/27/92 KRM

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [signature]
Month 01 Day 27 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624328

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 TSD MAIL TO GENERATOR

case of a spill call the Indiana Office of Environmental Respo at 317/241-4336 (Y or night) and the National Response Center at 800/424-8802 202/426-2675.

OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00119
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624329
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00022 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25640

K. Handling Codes for Wastes Listed Above
Net 44320
D81

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

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Printed/Typed Name: Jerry Pirna
Signature: [signature]
Date: Month 02 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony Miller
Signature: Tony Miller
Date: Month 02 Day 04 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 02 Day 05 Year 92

Form 8700-22
Previous editions are obsolete.
Form 11865 (R/4-89)

COPY 4. TSD MAIL TO GENERATOR

INA 0624329

National Response Center at 800/424-8802 or 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00120
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624330
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00025 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25871

K. Handling Codes for Wastes Listed Above
G81
Net 50560#s

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: [signature]
Month 02 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Compton
Signature: [signature]
Month 02 Day 04 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19
Printed/Typed Name: Amy Schmeyer
Signature: [signature]
Month 02 Day 05 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624330

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4. TSD MAIL TO GENERATOR

...case of a spill call the Indiana Office of Environmental Respo... at 317/... National Response Center at 800/424-88... or 202/426-2675.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 00121
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624331
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00025 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25872

K. Handling Codes for Wastes Listed Above
Not 51500 #
D87

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha
Signature: Jerry Picha
Date: Month 02 Day 04 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone
Signature: Jesse E Bone
Date: Month 02 Day 04 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted item 19.
Printed/Typed Name: Sandy [illegible]
Signature: [illegible]
Month 02 Day 05 Year 92

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4. TSD MAIL TO GENERATOR

INA 0624331

Please call the Indiana Office of Environmental Response National Response Center at 800/424-8802, 202/426-2675.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00122
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624332
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone: 1-800-729-4[illegible]

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0 0 1 | D T | 0 0 0 2 1 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25900

K. Handling Codes for Wastes Listed Above
D81 Landfill
net 42720

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed Typed Name: Jerry Pickus
Signature: [signature]
Month 02 Day 05 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Typed Name: Anthony L Gade
Signature: [signature]
Month 02 Day 05 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted Item 19
Printed Typed Name: Tracey Relue
Signature: Tracey Relue
Month 02 Day 06 Year 92

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 TSD MAIL TO GENERATOR

...case of a spill call the Indiana Office of Environmental Respo... at 317/241-4338 ...y of night) and the National Response Center at 800/424-880... or 202/426-2675.

INA 0624332

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ILD984807990
Manifest Document No.: 001231
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624333
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: OHD068913409
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: IND078911146
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 001 | DT | 00024 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25901

K. Handling Codes for Wastes Listed Above
Net 48300 lbs
D81

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [illegible] Signature: [illegible] Date: Month 02 Day 06 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jack Stout Signature: [illegible] Date: Month 02 Day 06 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [illegible] Signature: [illegible] Month 02 Day 07 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624333

In case of a spill call the Indiana Office of Environmental Response 317/241-4336 (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00124
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624334
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | [illegible] | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 25902

K. Handling Codes for Wastes Listed Above
NCL 50780
D8/LANDFILL

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry Pierce
Signature: [signature]
Date: Month 02 Day 06 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jesse E. Bone
Signature: [signature]
Date: Month 02 Day 06 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year 02 07 92

GENERATOR

TRANSPORTER

FACILITY

INA 0624334

case of a spill call the Indiana Office of Environmental Respon at 317/2[illegible] (day or night) and the
ional Response Center at 800/424-880 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

COPY 4 FOR MAIL TO GENERATOR

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I L D 9 8 4 8 0 7 9 9 0 — Manifest Document No. 00125
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number INA 0624335
B. State Generator's ID IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID 1841
D. Transporter's Phone 800-776-0359

7. Transporter 2 Company Name
8. Use EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806
10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID
H. Facility's Phone 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 00025 | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 26175

K. Handling Codes for Wastes Listed Above
Net 48020#
D81

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Picha — Signature — Date: Month 6 Day 12 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kenny Compton — Signature — Date: Month 6 Day 12 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

GENERATOR — TRANSPORTER — FACILITY

ase of a spill call the Indiana Office of Environmental Respo
...ional Response Center at 800/424-880 202/426-2675.

INA 0624335

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R/4-89)

...AL MANAGEMENT
OFFICE OF SOLID ... HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

**PLEASE PRINT OR TYPE** (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: I L D 9 8 4 8 0 7 9 9 0
Manifest Document No.: 00126
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but items D, F, H and I are required by State law.

3. Generator's Name and Mailing Address
North Shore Gas Co.
122 S. Michigan Room 1003
Chicago, IL 60603

4. Generator's Phone ( 708-431-4810

A. State Manifest Document Number: INA 0624340
B. State Generator's ID: IL0971903009

5. Transporter 1 Company Name: Wills Trucking Co.
6. Use EPA ID Number: O H D 0 6 8 9 1 3 4 0 9
C. State Transporter's ID: 1841
D. Transporter's Phone: 800-776-0359

7. Transporter 2 Company Name:
8. Use EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

10. Use EPA ID Number: I N D 0 7 8 9 1 1 1 4 6
G. State Facility's ID:
H. Facility's Phone: 219-447-5585

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol. | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Hazardous Waste, Solid, N.O.S. ORM-E NA 9189 (D018) | 0.0.1 | D.T | 0 ~~0024~~ 31 @ | T | D018 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

J. Additional Descriptions for Materials Listed Above
Profile # AN0864
WO # 26176

K. Handling Codes for Wastes Listed Above
Net 62680 #
D81

15. Special Handling Instructions and Additional Information
Emergency No. 205-652-9721
@ per Pete Johnson 2/13/91

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Jerry Piola
Signature: [signature]
Month 02 Day 12 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tesse F Bone
Signature: Jesse E Bone
Month 02 Day 12 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Month 02 Day 13 Year 92

GENERATOR / TRANSPORTER / FACILITY

INA 0624340

In case of a spill call the Indiana Office of Environmental Response ... (day or night) and the National Response Center at 800/424-8802 or 202/426-2675.

EPA Form 8700-22
Previous editions are obsolete.
State Form 11865 (R 4-89)

# *Appendix G*

## *Illinois Environmental Protection Agency Water Pollution Control Permits*

RECEIVED

DEC 0 4

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 4216-91

PERMIT NO.: 1991-EN-4216

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS
PREPARED BY: Barr Engineering Co.

DATE ISSUED: November 27, 1991

SUBJECT: NORTH SHORE GAS COMPANY - Pretreatment - North Shore Sanitary District Waukegan STP

PERMITTEE TO CONSTRUCT
North Shore Gas Company
Attn: Patrick J. Doyle
3001 Grand Avenue
Waukegan, Illinois 60085

Permit is hereby granted to the above designated permittee to construct water pollution control facilities described as follows:

A temporary (approximately 90 days) sewer connection consisting of 75 feet of 2 inch diameter high density polyethylene pipe tributary to the North Shore Sanitary District manhole at Dahringer & Pershing Roads; one oil-water separator in series with one granular activated carbon filter rated at 30 gpm for the pretreatment of wastewater from the site commonly referred to as the Waukegan Tar Pits; DAF = 3600 GPD, DMF = 30,000 GPD; discharge is to the Waukegan Sewage Treatment Plant.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplement Permit.

SPECIAL CONDITION 1: The issuance of this permit does not relieve the permittee of the responsibility of complying with any limitations and provisions imposed by North Shore Sanitary District.

Continued on Page 2

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:CRM:sad/3531q,73-74
cc: EPA - Region 2
Barr Engineering Co.
Record
Binds
North Shore Sanitary District

DIVISION OF WATER POLLUTION CONTROL

Thomas G. McSwiggin, P.E.
Manager, Permit Section

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 4216-91 PERMIT NO.: 1991-EN-4216

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS
PREPARED BY: Barr Engineering Co.

DATE ISSUED: November 27, 1991

SUBJECT: NORTH SHORE GAS COMPANY - Pretreatment - North Shore Sanitary District Waukegan STP

SPECIAL CONDITION 2: The issuance of this permit does not relieve the permittee of the responsibility of complying with 35 Ill. Adm. Code, Part 307 and/or the General Pretreatment Regulations (40 CFR 403) and any guidelines developed pursuant to Section 301, 306, or 307 of the Federal Clean Water Act of 1977.

SPECIAL CONDITION 3: The operation of the pretreatment facilities must be under the direct and active field supervision of a certified industrial treatment plant operator in accordance with the State of Illinois Rules and Regulations, Title 35, Subtitle C, Chapter 1, Part 312.

SPECIAL CONDITION 4:

a) Liquids, solids, or gases which by reason of their nature or quantity may cause fire or explosion; or be injurious in any other way to sewers, treatment works, structures or to the operation of the treatment works, or cause a safety hazard to the personnel operating the treatment works, or cause the effluent from the treatment works to violate applicable effluent standards are prohibited;

b) Solid or viscous wastes which cause obstruction to the flow in sewers or other interference with the proper operation of any sewer or treatment works are prohibited.

SPECIAL CONDITION 5:

a. Accumulation of hazardous waste at this facility (if generated) shall be carried out in accordance with 35 Ill. Adm. Code, Chapter 1, Subtitle G, Part 722: Standards Applicable to Generators of Hazardous Waste.

b. Transport of all special waste to a permitted treatment, storage or disposal site shall be carried out in accordance with Title 35 Ill. Adm. Code, Chapter 1, Subtitle G, Part 809: Special Waste Hauling.

READ ALL CONDITIONS CAREFULLY:
STANDARD CONDITIONS

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1 2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

1 Unless the construction for which this permit is issued has been completed, this permit will expire (1) two years after the date of issuance for permits to construct sewers or wastewater sources or (2) three years after the date of issuance for permits to construct treatment works or pretreatment works.

2 The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Illinois Pollution Control Board.

3 There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

4 The permittee shall allow any agent duly authorized by the Agency upon the presentation of credentials:

a to enter at reasonable times, the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit.

b to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.

c to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit

d to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

e to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit

5. The issuance of this permit:

a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;

b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;

c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;

d. does not take into consideration or attest to the structural stability of any units or parts of the project;

e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the Agency before the facility or equipment covered by this permit is placed into operation

7. These standard conditions shall prevail unless modified by special conditions

8. The Agency may file a complaint with the Board for suspension or revocation of a permit:

a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed; or

b. upon finding that any standard or special conditions have been violated; or

c. upon any violation of the Environmental Protection Act or any Rule or Regulation effective thereunder as a result of the construction or development authorized by this permit.

READ ALL CONDITIONS CAREFULLY:
STANDARD CONDITIONS

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1 2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

1. Unless the construction for which this permit is issued has been completed, this permit will expire (1) two years after the date of issuance for permits to construct sewers or wastewater sources or (2) three years after the date of issuance for permits to construct treatment works or pretreatment works.

2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

4. The permittee shall allow any agent duly authorized by the Agency upon the presentation of credentials:

   a. to enter at reasonable times, the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit.

   b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.

   c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit

   d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

   e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;

   b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;

   c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;

   d. does not take into consideration or attest to the structural stability of any units or parts of the project;

   e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the Agency before the facility or equipment covered by this permit is placed into operation.

7. These standard conditions shall prevail unless modified by special conditions.

8. The Agency may file a complaint with the Board for suspension or revocation of a permit:

   a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed; or

   b. upon finding that any standard or special conditions have been violated; or

   c. upon any violation of the Environmental Protection Act or any Rule or Regulation effective thereunder as a result of the construction or development authorized by this permit.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 4512-91 PERMIT NO.: 1991-EN-4216-1

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS PREPARED BY: James R. Langseth of Barr Engineering Company

DATE ISSUED: December 30, 1991

SUBJECT: NORTH SHORE GAS COMPANY -- Pretreatment - North Shore Sanitary District Waukegan STP

PERMITTEE TO CONSTRUCT
North Shore Gas Company
Attn: Patrick J. Doyle
3001 Grand Avenue
Waukegan, Illinois 60085

Supplemental permit is hereby granted to the above designated permittee(s) to construct and/or operate water pollution control facilities, which were previously approved under Permit #1991-EN-4216 dated November 27, 1991. These facilities have been revised as follows:

DMF is increased from 30,000 GPD to 144,000 GPD.

All Special Conditions on the original permit issued are also applicable to this permit unless specifically deleted or revised in this permit.

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:CRM/mls/3736q/89
cc: EPA - Region 2
James R. Langseth
Record
Binds
NSSD

DIVISION OF WATER POLLUTION CONTROL

Thomas G. McSwiggin, P.E.
Manager, Permit Section

IL 532-0909 (Rev. 2/82)

READ ALL CONDITIONS CAREFULLY:
STANDARD CONDITIONS

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1 2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

1. Unless the construction for which this permit is issued has been completed, this permit will expire (1) two years after the date of issuance for permits to construct sewers or wastewater sources or (2) three years after the date of issuance for permits to construct treatment works or pretreatment works.

2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

4. The permittee shall allow any agent duly authorized by the Agency upon the presentation of credentials:

   a. to enter at reasonable times, the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit.

   b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.

   c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit.

   d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

   e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;

   b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;

   c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations.

   d. does not take into consideration or attest to the structural stability of any units or parts of the project;

   e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. Unless a joint construction/operation permit has been issued a permit for operating shall be obtained from the Agency before the facility or equipment covered by this permit is placed into operation.

7. These standard conditions shall prevail unless modified by special conditions.

8. The Agency may file a complaint with the Board for suspension or revocation of a permit:

   a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or

   b. upon finding that any standard or special conditions have been violated; or

   c. upon any violation of the Environmental Protection Act or any Rule or Regulation effective thereunder as a result of the construction or development authorized by this permit.

# *Appendix H*

## *Waste Profile*

Waste Management, Inc.

# WASTE PROFILE

Profile #

(_) Check here if this is a Recertification  LOCATION OF ORIGINAL CWM of Indiana, Inc.

GENERAL INFORMATION

1. ~~Generator~~ PRP Name: NORTH SHORE GAS  ~~Generator~~ PRP USEPA ID: APPL
2. ~~Generator~~ PRP Address: DARINGER & PERSHING RD.  Billing Address: (_) Same CHEMICAL WASTE MANAGEMENT
   7250 WEST COLLEGE DRIVE
   WAUKEGAN IL 60463  PALOS HEIGHTS IL 60463
3. Technical Contact/Phone: PAT DOYLE 312/431-4810  Billing Contact/Phone: PETE JOHNSON 708/361-8400
4. Alternate Contact/Phone:

PROPERTIES AND COMPOSITION

5. Process Generating Waste: ~~COKE~~ TAR PIT
6. Waste Name: SOLIDIFIED ~~COKE~~ TAR

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D018
State Waste Codes: D018

8. Physical State @ 70F: A. Solid (X) Liquid (_) Both (_) B. Single Layer (X) Multilayer (_) C. Free liq. range ___ to ___%

9A. pH: Range 7.0 to 11.0 or Not applicable (_) B. Strong Odor (_); describe

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (X) N.A. (_) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

| Constituents | Range | | Units |
|---|---|---|---|
| ~~FUEL~~ TAR | 70 | to 90 | % |
| BENZENE | 0 | to 1 | % |
| LIME/KILN DUST | 10 | to 30 | % |
| PPE | 5 | to 10 | % |
| CONCRETE PIPING ~~[illegible]~~ and debris | 5 | to 20 | % |
| | | to | |
| TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%): | | 151.000000 | |

12. OTHER: PCBs if yes, concentration ___ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration < 100 ppm. Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid (_) Drum (_) Type/Size: BULK Other
15. ANTICIPATED ANNUAL VOLUME: 2000 Units: TONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION

Sample Tracking Number: 0006622

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): POND

Date Sampled: 9/05/91 Sampler's Name/Company: ~~Generator~~ STEVE LORENTZ (BARR ENG.) FOR P. J. DOYLE (NORTH SHORE GAS CO.)

16b. ~~Generator's~~ PRP Agent Supervising Sampling:  17. (_) No sample required (See instructions.)

~~GENERATOR~~ PRP CERTIFICATION To the best of my knowledge and based upon sampling and analysis conducted by Chemical Waste Management,

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the ~~generator~~ PRP has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

| Signature | Name and Title | Date |
|---|---|---|
| P J Doyle | Patrick J. Doyle, Vice President | 11/14/91 |

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

| REF # | A. US EPA HAZARDOUS WASTE CODE(S) | B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none | | C. APPLICABLE TREATMENT STANDARDS | | | D. HOW MUST THE WASTE BE MANAGED? Enter letter from below |
|---|---|---|---|---|---|---|---|
| | | | | PERFORMANCE-BASED: Check as applicable | | SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s) | |
| | | DESCRIPTION | NONE | 268.41(a) | 268.43(a) | 268.42 | |
| 1 | D018 | NONE | | | | | E |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
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| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
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| | | | | | | | |

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: .600 to 1.000

23. Indicate the range of each: Units

Cyanides: ≤ 50 to _____ PPM Type (free, total, amenable, etc.) TOTAL

Cyanides: _ Not Applicable to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: ≤ 3 to _____ PPM Type TOTAL

Optional
Phenolics: ≤ 10 to _____ PPM

24. Identify the waste color BLACK

and physical appearance SOLID CHUNKS

Profile #

| 25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION | | 26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available) |
|---|---|---|
| TOTAL | | RANGE |
| Beryllium as Be | ppm | A. Heat Value (Btu/lb): ____-____ |
| Potassium as K | ppm | B. Water: ____ |
| Sodium as Na | ppm | C. Viscosity (cps): ____@____F _ 100 F _ 150 F |
| Bromine as Br | % | D. Ash: ____ % |
| Chlorine as Cl | % | E. Settleable solids: ____ % |
| Fluorine as F | % | F. Vapor Pressure @ STP (mm/Hg): ____ |
| Sulfur as S | % | G. Is this waste a pumpable liquid? Yes _ No _ |
| | | H. Can this waste be heated to improve flow? Yes _ No _ |
| | | I. Is this waste soluble in water? Yes _ No _ |
| | | J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _ |

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name: RQ,HAZARDOUS WASTE,SOLID,N.O.S.

C. Hazard Class: ORM-E I.D. NA9189

D. Additional Description: (D018) OR (BENZENE)

E. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 10 Lb

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

WASTE ISN'T A DIOXIN OR SOLVENT WASTE (F020,F021,
F022,F023,F026,F027,F028, OR F001,F002,F003,F004,
F005) AS DEFINED BY 40 CFR 261.31***WASTE DOES NOT
CONTAIN >1000 ppm HOC'S FROM APP. III(40 CFR 268).
THERE ARE NO FREE LIQUIDS AS BY PAINT FILTER TEST.
NO OTHER CODES APPLY,LISTED OR CHARACTERISTIC,IN-
CLUDING HERBICIDES,PESTICIDES,VIA
DERIVED-FROM,MIX.RULE,OR ANY OTHER MEANS**********
ABOVE INFO SOURCE IS: X GENERATOR KNOWLEDGE
ANALYSIS BOTH

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Profile #

11. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

| METALS | TCLP Data: Check only ONE for each constituent Use units: ppm, mg/l | | | | | TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | California List | | | |
| | Less Than | TC Regulated Level | Equal or More | Waste No. | TCLP Actual | Less Than | Regulated Level | Equal or More | Actual |
| Arsenic as As | X | 5.0 mg/l | | D004 | | | 500 mg/l | | |
| Barium as Ba | X | 100.0 mg/l | | D005 | | | | | |
| Cadmium as Cd | X | 1.0 mg/l | | D006 | | | 100 mg/l | | |
| Chromium tot Cr | X | 5.0 mg/l | | D007 | | | | | |
| Lead as Pb | X | 5.0 mg/l | | D008 | | | 500 mg/l | | |
| Mercury as Hg | X | .2 mg/l | | D009 | | | 20 mg/l | | |
| Selenium as Se | X | 1.0 mg/l | | D010 | | | 100 mg/l | | |
| Silver as Ag | X | 5.0 mg/l | | D011 | | | | | |
| Nickel as Ni | N/A | | | | | | 134 mg/l | | |
| Thallium as Tl | N/A | | | | | | 130 mg/l | | |
| Chromium Hex | N/A | | | | | | 500 mg/l | | |
| Antimony | N/A | | | | | | | | |
| Beryllium | N/A | | | | | | | | |
| Copper | N/A | | | | | | | | |
| Vanadium | N/A | | | | | | | | |
| Zinc | N/A | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

| ORGANICS | TCLP Data: Check only ONE for each constituent | | | | | TCA or TOTAL Use units: ppm, mg/l or % |
|---|---|---|---|---|---|---|
| | Less Than | Regulated Level | Equal or More | Waste No. | TCLP Analytical Test Results Use units: ppm or mg/l | |
| Benzene | | 0.5 mg/l | X | D018 | | |
| Carbon Tetrachloride | X | 0.5 mg/l | | D019 | | |
| Chlordane | X | 0.03 mg/l | | D020 | | |
| Chlorobenzene | X | 100.0 mg/l | | D021 | | |
| Chloroform | X | 6.0 mg/l | | D022 | | |
| m-Cresol | X | 200.0 mg/l | | D024 | | |
| o-Cresol | X | 200.0 mg/l | | D023 | | |
| p-Cresol | X | 200.0 mg/l | | D025 | | |
| Cresol | X | 200.0 mg/l | | D026 | | |
| 2,4-D | X | 10.0 mg/l | | D016 | | |
| 1,4 Dichlorobenzene | X | 7.5 mg/l | | D027 | | |
| 1,2-Dichloroethane | X | 0.5 mg/l | | D028 | | |
| 1,1-Dichloroethylene | X | 0.7 mg/l | | D029 | | |
| 2,4-Dinitrotoluene | X | 0.13 mg/l | | D030 | | |
| Endrin | X | .02 mg/l | | D012 | | |
| Heptachlor, & Hydroxide | X | 0.008 mg/l | | D031 | | |
| Hexachloro-1,3 Butadiene | X | 0.5 mg/l | | D033 | | |
| Hexachlorobenzene | X | 0.13 mg/kl | | D032 | | |
| Hexachloroethane | X | 3.0 mg/l | | D034 | | |
| Lindane | X | 0.4 mg/l | | D013 | | |
| Methoxychlor | X | 10.0 mg/l | | D014 | | |
| Methyl Ethyl Ketone | X | 200.0 mg/l | | D035 | | |
| Nitrobenzene | X | 2.0 mg/l | | D036 | | |
| Pentachlorophenol | X | 100.0 mg/l | | D037 | | |
| Pyridine | X | 5.0 mg/l | | D038 | | |
| Tetrachloroethylene | X | 0.7 mg/l | | D039 | | |
| Toxaphene | X | 0.5 mg/l | | D015 | | |
| 2,4,5-TP Silvex | X | 1.0 mg/l | | D017 | | |
| Trichloroethylene | X | 0.5 mg/l | | D040 | | |
| 2,4,5-Trichlorophenol | X | 400.0 mg/l | | D041 | | |
| 2,4,6-Trichlorophenol | X | 2.0 mg/l | | D042 | | |
| Vinyl Chloride | X | 0.2 mg/l | | D043 | | |
| | | | | | | |
| | | | | | | |

# Technical Center Analytical Laboratory

# Special Waste Analysis Report

## Chemical Waste Management - Riverdale

| | |
|---|---|
| **Sample Id:** | 200048088 |
| **Date Sampled:** | 11-OCT-91 |
| **Date Logged:** | 16-OCT-91 |
| **Waste Profile Number:** | III AN0864 |
| **Source:** | MRL |
| **~~Generator~~ PRP Name:** | NORTH SHORE GAS/M. KUCHARSKI |
| **~~Generator~~ PRP Location:** | WAUKEGAN, IL |
| **Waste Name:** | COAL TAR #2902-60-8 |
| **Site Number:** | |

Sample Id: 200048088 Waste Profile No: III AN0864 Lab Asystant No:

This Report is intended for the use and benefit of Waste Management and its companies. No representation concerning significance of the reported data is made to any other person or entity.

| FINGERPRINT | Result | Date |
|---|---|---|
| Paint Filter | PASS | 10/16/91 |
| Paint Filter Method | OBSERVED | 10/16/91 |
| pH | 12.70 | 10/16/91 |
| pH Meas. Method | METER | 10/16/91 |
| pH Method | 10% SOLUTION | 10/16/91 |
| Cn Screen Method | PRUSSIAN BLUE | 10/16/91 |
| Cyanide Screen | < 50 MG/L | 10/16/91 |
| Sulfide Screen | < 3 mg/l | 10/16/91 |
| Phenol Screen | < 10 mg/l | 10/16/91 |
| Oxidizer Screen | NEGATIVE | 10/16/91 |
| Flam. Potential | NEGATIVE | 10/16/91 |
| Incidental Odor | NONE | 10/16/91 |
| Layers | SINGLEPHASE | 10/16/91 |
| Free Liquids | NO | 10/16/91 |
| Color: L1 | BLACK | 10/16/91 |
| Physical State: L1 | SOLID CHUNKS | 10/16/91 |
| H20 Mix: L1 | LIGHTER | 10/16/91 |
| H20 Solubility: L1 | INSOLUBLE | 10/16/91 |
| H20 Reactivity: L1 | NONREACTIVE | 10/16/91 |
| Radiation Level | AT BACKGROUND | 10/16/91 |
| Hazard Class - 1 | CAUSTIC | 10/16/91 |
| Hazard Class - 2 | CORROSIVE | 10/16/91 |

COMMENTS:

No FINGERPRINT Comments

| WET CHEMISTRY | Result | Date |
|---|---|---|
| Specific Gravity | 0.8 | 10/16/91 |
| Alkalinity | 2.5 percent | 10/25/91 |
| Alkalinity As - | NAOH | 10/25/91 |

COMMENTS:

No WET CHEMISTRY Comments

| SPECTROSCOPY | Result | Date |
|---|---|---|

No SPECTROSCOPY Tests Requested

COMMENTS:

No SPECTROSCOPY Comments

| PCBS | Result | Date |
|---|---|---|

COMMENTS:

TOTAL AROCHLORS IS LESS THAN 50mg/kg

Sample Id: 200048088 Waste Profile No: III AN0864 Lab Asystant No:

This Report is intended for the use and benefit of Waste Management and its companies. No representation concerning significance of the reported data is made to any other person or entity.

CERTIFICATION: Except as explicitly noted, all analytical data reported above were obtained under my direction and supervision. For Chemical Waste Management, Inc. companies, sample preparation and analytical methods and analytical equipment specified or approved in the facility's waste analysis plan were used in conducting this analysis. This laboratory follows a quality assurance control program.

Report Date Oct 28, 1991

Ray Rutkowski Ray Rutkowski

Frank Thomas
Lab Manager

Chemical Waste Management of Indiana, Inc.

4636 Adams Center Road
Fort Wayne, Indiana 46806
219/447-5585

RECEIVED
JAN 22 1992
MW RGN. CUST. SERV.

January 16, 1992

North Shore Gas
Daringer & Pershing Rd.
Waukegan, IL 60463
Attn: Jerry Cross

The following changes were made to your profile sheet AN 0864 on 1-13-92.

SECTION # 11

Identify changes: Raise Increase Concrete Piping + Debris to 5-100%

Add Wood Debris (i.e. Railroad Ties and Telephone Pole) 0-10%

(Please review attached profile sheet for actual changes, and attach it to your Chemical Waste Management Contract agreement.)

These changes, which were made to more accurately reflect profile and sample, were authorized by JERRY CROSS CWM ENRAC.
(Title)

Changes were made by KURT R. UHEN Site Services Representative,

and approved by Katie Rutherford CWM Technical Manager.

Please sign this form and return it to me at your earliest convenience, thereby documenting your acceptance of the above changes. If you should have any questions regarding these changes, please feel free to contact me at (219) 447-5585.

Sincerely,

Kurt R. Uhen

Kurt R. Uhen
Site Services Representative

I hereby acknowledge the above changes that have been made to my profile sheet, and that they will be included as an amendment to my current contract with Chemical Waste Management.

Date: 1/27/92 Signature: [illegible]

Title: SENIOR ENGINEER

FOR CWM USE ONLY
cc: File
Sales -
Contracting Dept. (customer signature)
DCS & Receiving

# WASTE PROFILE

Profile #

(_) Check here if this is a Recertification  LOCATION OF ORIGINAL CWM of Indiana, Inc.

GENERAL INFORMATION

1. Generator Name: NORTH SHORE GAS  Generator USEPA ID: ARTL
2. Generator Address: DARINGER & PERSHING RD.
   WAUKEGAN IL 60663
   Billing Address: (_) Same
   CHEMICAL WASTE MANAGEMENT
   7250 WEST COLLEGE DRIVE
   PALOS HEIGHTS IL 60463
3. Technical Contact/Phone: PAT DOYLE 312/431-4810
4. Alternate Contact/Phone:
   Billing Contact/Phone: PETE JOHNSON 708/361-8400

PROPERTIES AND COMPOSITION

5. Process Generating Waste: COAL TAR PIT
6. Waste Name: SOLIDIFIED COAL TAR
7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D018
   State Waste Codes: D018
8. Physical State @ 70F: A. Solid (X) Liquid (_) Both (_) B. Single Layer (X) Multilayer (_) C. Free liq. range ___ to ___%
9A. pH: Range 7.0 to 13.0 or Not applicable (_) B. Strong Odor (_); describe
10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (X) N.A. (_) Closed Cup (X) Open Cup (_)
11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

| Constituents | Range | Units |
|---|---|---|
| COAL TAR | 70 to 90 | % |
| BENZENE | 0 to 1 | % |
| LIME/KILN DUST | 10 to 30 | % |
| PPE | 5 to 10 | % |
| CONCRETE PIPING ~~DEBRIS~~ LAND DEBRIS Δ | 5 to ~~20~~ 100 | % |
| Carbon | 0 to 10 | % * |
| TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%): | ~~154~~ 161.000000 | |

Δ 0-10% WOOD DEBRIS (i.e. RAILROAD TIES & TELEPHONE POLE) 1-13-92 per Jerry Cross. KAM

*Per Pete Johnson 11/14/91 MH

12. OTHER: PCBs if yes, concentration _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration < 100 ppm. Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other
13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid (_) Drum (_) Type/Size: BULK Other
15. ANTICIPATED ANNUAL VOLUME: 2000 Units: TONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION  Sample Tracking Number: 0006622

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): POND
Date Sampled: 9/05/91 Sampler's Name/Company: P.J. DOYLE NORTH SHORE GAS CO.
16b. Generator's Agent Supervising Sampling:
17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature  JERRY PICHA, SENIOR FOREMAN  1/27/92
Name and Title  Date

**Chemical Waste Management of Indiana, Inc.**

4636 Adams Center Road
Fort Wayne, Indiana 46806
219/447-5585

January 16, 1992

North Shore Gas
Daringer & Pershing Rd.
Waukegan, IL 60463
Attn: Jerry Cross

The following changes were made to your profile sheet AN 0864 on 1-13-92.

SECTION # 11

Identify changes: ~~Raise~~ INCREASE CONCRETE PIPING & DEBRIS TO 5-100%

ADD WOOD DEBRIS (i.e. Railroad Ties and Telephone Pole) 0-10%

(Please review attached profile sheet for actual changes, and attach it to your Chemical Waste Management Contract agreement.)

These changes, which were made to more accurately reflect profile and sample, were authorized by JERRY CROSS CWM ENRAC.
(Title)

Changes were made by KURT R. UHEN Site Services Representative,

and approved by Katie Rutherford CWM Technical Manager.

Please sign this form and return it to me at your earliest convenience, thereby documenting your acceptance of the above changes. If you should have any questions regarding these changes, please feel free to contact me at (219) 447-5585.

Sincerely,

Kurt R. Uhen

Kurt R. Uhen
Site Services Representative

I hereby acknowledge the above changes that have been made to my profile sheet, and that they will be included as an amendment to my current contract with Chemical Waste Management.

Date: 2/3/92 Signature: [illegible]

Title: SENIOR ENGINEER

**FOR CWM USE ONLY**

cc: File
Sales -

Contracting Dept. (customer signature)
DCS & Receiving

A subsidiary of Chemical Waste Management, Inc.

Printed on recycled paper

Chemical Waste Management, Inc. AR0864

WASTE PROFILE Profile

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM of Indiana, Inc.

GENERAL INFORMATION

1. Generator Name: NORTH SHORE GAS Generator USEPA ID: APPL

2. Generator Address: DARINGER & PERSHING RD. Billing Address: (_) Same CHEMICAL WASTE MANAGEMENT
7250 WEST COLLEGE DRIVE
WAUKEGAN IL 60463

3. Technical Contact/Phone: PAT DOYLE 312/431-4810 PALOS HEIGHTS IL 60463

4. Alternate Contact/Phone: Billing Contact/Phone: PETE JOHNSON 708/361-8[illegible]

PROPERTIES AND COMPOSITION

5. Process Generating Waste: COAL TAR PIT

6. Waste Name: SOLIDIFIED COAL TAR

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D018
State Waste Codes: D018

8. Physical State @ 70F: A. Solid (X) Liquid (_) Both (_) B. Single Layer (X) Multilayer (_) C. Free liq. range ___ to ___

9A. pH: Range 7.0 to 11.0 or Not applicable (_) B. Strong Odor (_);describe

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (X) N.A. (_) Closed Cup (X) Open Cup (

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward ana[illegible]is

| Constituents | Range | Units |
|---|---|---|
| COAL TAR | 70 to 90 | % |
| BENZENE | 0 to 1 | % |
| LIME/KILN DUST | 10 to 30 | % |
| PPE | 5 to 10 | % |
| CONCRETE PIPING [redacted] | 5 [redacted] | % |
| Carbon | 0 to 10 | % * |
| TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%): | 151.000000 161 | |

[redacted]

*Per Pete Johnson 11/14/91 M

12. OTHER: PCBs if yes, concentration _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_)
Radioactive (_) Benzene if yes, concentration ≤ 100 ppm. Shock Sensitive (_) Oxidizer (_)
Carcinogen (_) Infectious (_) Other

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicab[illegible]

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid (_) Drum (_) Type/Size: BULK Other

15. ANTICIPATED ANNUAL VOLUME: 2000 Units: TONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 000[illegible]2

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): POND

Date Sampled: 9/05/91 Sampler's Name/Company: P.J. DOYLE NORTH SHORES GAS CO.

16b. Generator's Agent Supervising Sampling: 17. (_) No sample required (See instructi[illegible].)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions [illegible] this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. [illegible]l relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authori[illegible] CWM to obtain a sample from any waste shipment for purposes of recertification.

[signature] Signature JERRY PICHA, SENIOR ENGINEER Name and Title 2/[illegible]

# *Appendix I*

## *Analytical Reports*

NORTH SHORE SANITARY DISTRICT
ANALYTICAL REPORT

Client: North Shore Sanitary District
Sample Date: November 5, 1991
Sample Type: Waukegan STP/Tar Pit Surface Water
Analysis Complete: November 11, 1991

| PARAMETER | RESULTS (mg/l) |
|---|---|
| BOD5 | 17 |
| COD | 134 |
| pH | 7.6 pH units |
| Total Suspended Solids | 26 |

Karen L. Farrell
Director of Laboratory Services
NORTH SHORE SANITARY DISTRICT

# EPA 624 - PURGEABLES
# AQUARIUS REPORT

**SAMPLE LOCATION:** WSTP Tar Pit

**SAMPLER:** TM

**SAMPLE TYPE:** 4 Hour Composite

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 11/21/91 | 4 Hr. Comp. | 11/22/91 | CL | 11/22/91 | 11/22/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | <2 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| OMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | <2 | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | <2 | 1,1,2,2-TETRACHLOROETHANE | <2 |
| 2-CHLOROETHYLVINYL ETHER | <2 | TETRACHLOROETHENE | <2 |
| CHLOROFORM | <2 | TOLUENE | 2.2 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | <2 |
| 1,1-DICHLOROETHANE | <2 | TRICHLOROETHENE | <2 |
| 1,2-DICHLOROETHANE | <2 | TRICHLOROFLUOROMETHANE | <2 |
| 1,1-DICHLOROETHENE | <2 | | |
| TRANS-1,2-DICHLOROETHENE | <2 | | |
| 1,2-DICHLOROPROPANE | <2 | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc (ug/l) |
|---|---|
| Acetone | 30 |
| Total Xylenes | 15 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
# AQUARIUS REPORT

**SAMPLE LOCATION:** WSTP Tar Pit

**SAMPLER:** TM

**SAMPLE TYPE:** 6 Hour Composite

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 11/22/91 | 07:40, 08:25, 09:24, 13:28 Comp. | 11/23/91 | CL | 11/25/91 | 11/27/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | <2 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | <2 | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | <2 | 1,1,2,2-TETRACHLOROETHANE | <2 |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | <2 |
| CHLOROFORM | <2 | TOLUENE | <2 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | <2 |
| 1,1-DICHLOROETHANE | <2 | TRICHLOROETHENE | <2 |
| 1,2-DICHLOROETHANE | <2 | TRICHLOROFLUOROMETHANE | <2 |
| 1,1-DICHLOROETHENE | <2 | | |
| TRANS-1,2-DICHLOROETHENE | <2 | | |
| 1,2-DICHLOROPROPANE | <2 | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc (ug/l) |
|---|---|
| Acetone | 16 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** WSTP Tar Pit

**SAMPLER:** TM

**SAMPLE TYPE:** 1 Hour Composite

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 11/23/91 | 16:45, 17:11, 17:40 Comp | 11/24/91 | CL | 11/25/91 | 11/27/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | <2 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | <2 | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | <2 | 1,1,2,2-TETRACHLOROETHANE | <2 |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | <2 |
| CHLOROFORM | <2 | TOLUENE | <2 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | <2 |
| 1,1-DICHLOROETHANE | <2 | TRICHLOROETHENE | <2 |
| 1,2-DICHLOROETHANE | <2 | TRICHLOROFLUOROMETHANE | <2 |
| 1,1-DICHLOROETHENE | <2 | | |
| TRANS-1,2-DICHLOROETHENE | <2 | | |
| 1,2-DICHLOROPROPANE | <2 | | |

* Denotes Internal Standard

| Also Present | Estimated Conc (ug/l) |
|---|---|
| Acetone | 22 |

Karen L. Farrell
Director of Laboratory Services

# NORTH SHORE SANITARY DISTRICT

POST OFFICE BOX 750, RUSSELL ROAD, GURNEE, ILLINOIS 60031
708/623-6060 FAX 708/623-3205



BOARD OF TRUSTEES
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ATTORNEY MURRAY R. CONZELMAN


January 22, 1992

Mr. Jerry Picha
North Shore Gas Company
122 South Michigan Avenue
Room 1035
Chicago, IL 60063

Dear Mr. Picha:

Enclosed please find the North Shore Sanitary District's analytical report sheets for the organics analysis performed in the Waukegan Tar Pit surface water. The sampling and analysis of this surface water covers those dates between November 27th and December 22, 1991 and follows the sampling requirements as detailed in the project's District issued connection permit correspondence of sampling the discharge whenever pumping to the District's Waukegan WTP is occurring.

The Base-Neutral organics analyses are for the time period November 27th through December 11, 1991 while the Volatiles organic data includes those sample dates December 3 through December 22, 1991.

All analyses were performed in accordance with 40 CFR Part 136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act; October, 1984; Methods 624 and 625.

Should you have any questions, please feel free to call.

Sincerely,

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services
NORTH SHORE SANITARY DISTRICT

KLF:mjg
cc: Gene Lukasik
Brian Dorn
Lab File

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan STP Tar Pit **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 4 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 11/22/91 | 13:28<br>09:24<br>08:25<br>07:40 | 11/23/91 | CL | 12/17/91 | 12/26/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | | | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | | | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 4 Grabs

**ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 11/21/91 | 19:08<br>20:05<br>21:30<br>22:38 | 11/22/91 | CL | 12/17/91 | 12/26/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| enzidine | | | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | | | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan STP Tar Pit **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 4 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 11/22/91 | 13:28<br>09:24<br>08:25<br>07:40 | 11/23/91 | CL | 12/17/91 | 12/26/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | | | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | | | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan STP Tar Pit

**SAMPLER:**

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 11/23/91 | 16:45<br>17:00<br>17:11<br>17:21<br>17:40 | 11/25/91 | CL | 12/18/91 | 12/26/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | CNV |
| enzidine | | CNV | Hexachlorobutadiene | | CNV |
| Butyl Benzyl Phthalate | | <5 | Hexachlorocyclopentadiene | | <5 |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | CNV | Nitrobenzene | | |
| 2-Chloronaphthalene | | <5 | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/03/91 | 04:03<br>05:04<br>06:15<br>06:25<br>06:35 | 12/4/91 | CL | 12/20/91 | 12/26/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | CNV |
| Benzidine | | CNV | Hexachlorobutadiene | | CNV |
| Butyl Benzyl Phthalate | | <5 | Hexachlorocyclopentadiene | | <5 |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | CNV | Nitrobenzene | | |
| 2-Chloronaphthalene | | <5 | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/06/91 | 15:02, 15:52, 16:30, 16:45, 17:00 | 12/07/91 | CL | 12/20/91 | 12/26/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | CNV |
| Benzidine | | CNV | Hexachlorobutadiene | | CNV |
| Butyl Benzyl Phthalate | | <5 | Hexachlorocyclopentadiene | | <5 |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 6.5 | |
| 4-Bromophenyl Phenyl Ether | | CNV | Nitrobenzene | | |
| 2-Chloronaphthalene | | <5 | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 6.3 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** TM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/7/91 | 10:00<br>12:25<br>16:50<br>17:25<br>18:36 | 12/9/91 | CL | 12/20/91 | 12/26/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | CNV |
| Benzidine | | CNV | Hexachlorobutadiene | | CNV |
| Butyl Benzyl Phthalate | | <5 | Hexachlorocyclopentadiene | | <5 |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 51.6 | |
| 4-Bromophenyl Phenyl Ether | | CNV | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | <5 | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** TM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/8/91 | 08:27<br>09:12<br>10:14<br>11:09<br>12:10 | 12/9/91 | CL | 12/23/91 | 12/26/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| enzidine | | CNV | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | | <5 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 63.6 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** PC

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/09/91 | 14:30<br>15:30<br>16:20<br>17:20<br>18:11 | 12/10/91 | CL | 12/19/91 | 12/27/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | CNV | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | <5 | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | CNV |
| Benzidine | | CNV | Hexachlorobutadiene | | CNV |
| Butyl Benzyl Phthalate | | <5 | Hexachlorocyclopentadiene | | <5 |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 34.5 | |
| 4-Bromophenyl Phenyl Ether | | CNV | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | <5 | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** PC

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/10/91 | 14:45<br>15:25<br>16:00<br>16:45<br>17:30 | 12/11/91 | CL | 12/19/91 | 12/27/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | CNV | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | <5 | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | CNV |
| enzidine | | CNV | Hexachlorobutadiene | | CNV |
| utyl Benzyl Phthalate | | <5 | Hexachlorocyclopentadiene | | <5 |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 54.4 | |
| 4-Bromophenyl Phenyl Ether | | CNV | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | <5 | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/11/91 | 14:40<br>15:30<br>16:15<br>17:00<br>17:45 | 12/12/91 | CL | 12/20/91 | 12/27/91 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | <5 | Diethyl Phthalate | ND | <5 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | CNV | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | CNV |
| Benzidine | | CNV | Hexachlorobutadiene | | CNV |
| Butyl Benzyl Phthalate | | <5 | Hexachlorocyclopentadiene | | <5 |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 89.1 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | CNV | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
# AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** T.M.

**SAMPLE TYPE:** 2.5 Hr. Composite

**ANALYST:** C.L.

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/3/91 | 4:03<br>5:04<br>6:15<br>6:25<br>6:35 | 12/4/91 | C.L. | 12/4/91 | 12/9/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 5.9 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| ROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | 2.1 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | <2 |
| 2-CHLOROETHYLVINYL ETHER | | TETRACHLOROETHENE | <2 |
| CHLOROFORM | | TOLUENE | 6.9 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc ug/l |
|---|---|
| Xylenes | 25 |
| Acetone | 20 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** Tom

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** C.L.

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/6/91 | 15:02<br>15:52<br>16:30<br>16:45<br>17:00 | 12/7/91 | CL | 12/14/91 | 12/19/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 25 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | | TETRACHLOROETHENE | |
| CHLOROFORM | | TOLUENE | 2.9 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated conc. ug/l |
|---|---|
| Total Xylenes | 12 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
# AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grab Samples

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/7/91 | 10:00<br>12:25<br>16:50<br>17:25<br>18:36 | 12/9/91 | CL | 12/14/91 | 12/19/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 167 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | 3.1 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | | TETRACHLOROETHENE | |
| CHLOROFORM | | TOLUENE | 32 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 50 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/8/91 | 08:27<br>09:12<br>10:14<br>11:09<br>12:10 | 12/9/91 | CL | 12/16/91 | 12/18/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 84 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | | TETRACHLOROETHENE | |
| CHLOROFORM | | TOLUENE | 17 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 30 |
| Acetone | 5 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** PC

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/9/91 | 14:30<br>15:30<br>16:20<br>17:20<br>18:11 | 12/10/91 | CL | 12/16/91 | 12/19/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 165 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | | TETRACHLOROETHENE | |
| CHLOROFORM | | TOLUENE | 39 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 48 |
| Acetone | 6 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** PC

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/10/91 | 14:45<br>15:25<br>16:00<br>16:45<br>17:30 | 12/11/91 | CL | 12/16/91 | 12/19/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 249 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | 4.3 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | | TETRACHLOROETHENE | |
| CHLOROFORM | | TOLUENE | 62 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 75 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** JB

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/11/91 | 14:40<br>15:30<br>16:15<br>17:00<br>17:45 | 12/12/91 | CL | 12/17/91 | 12/20/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 r | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 226 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| ROMOFORM | | *1,4-DICHLOROBUTANE | |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | 30 |
| 2-CHLOROETHYLVINYL ETHER | | TETRACHLOROETHENE | <2 |
| CHLOROFORM | | TOLUENE | 61.6 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 70 |
| Acetone | 8 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/11-12/91 | 12/11 17:58, 23:00; 12/12 04:00, 08:55, 14:05 | 12/13/91 | CL | 12/22/91 | 12/23/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 159 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| ROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 30.9 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc ug/l |
|---|---|
| Total Xylenes | 47 |
| Acetone | 5 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/12-13/91 | 12/12 06:00, 11:00; 12/13 04:00, 09:00, 13:30 | 12/14/91 | CL | 12/19/91 | 12/24/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 84.4 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| ROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | | TETRACHLOROETHENE | |
| CHLOROFORM | | TOLUENE | 6.5 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 30 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** JC

**SAMPLE TYPE:** Composite of 3 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/13-14/91 | 12/13 18:00<br>21:00<br>12/14 04:00 | 12/16/91 | CL | 12/22/91 | 12/24/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 510 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | 4.7 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 100 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 90 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 4 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/16-17/91 | 12/16 — 17:57<br>12/17 07:11<br>14:00<br>16:02 | 12/18/91 | CL | 12/23/91 | 12/30/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 1190 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | 65.0 |
| ROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | 2.6 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | <2 |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 348 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 350 |
| Acetone | 6 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 3 Grab Samples

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/18/91 | ? 12:30 13:30 | 12/19/91 | CL | 12/23/91 | 12/30/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 2330 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | 82.3 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 752 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 480 |
| Acetone | 315 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/19/91 | 11:18<br>12:21<br>15:55<br>16:30<br>17:00 | 12/20/91 | CL | 12/23/91 | 12/20/91 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 2700 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | 2.0 | ETHYL BENZENE | 78.6 |
| ROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | <2 | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | <2 | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 790 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xyelenes | 520 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/20-21/91 | 10:43<br>12:10<br>10:23<br>11:54<br>12:25 | 12/23/91 | CL | 12/26/91 | 1/2/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 3540 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | 2.7 | ETHYL BENZENE | 108 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 1020 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 640 |
| Acetone | 22 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/22/91 | 09:40<br>10:20<br>11:15<br>11:45<br>12:40 | 12/23/91 | CL | 12/26/91 | 1/6/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 4360 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | 2.8 | ETHYL BENZENE | 194 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 1300 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 880 |
| Acetone | 15 |

Karen L. Farrell
Director of Laboratory Services

# NORTH SHORE SANITARY DISTRICT

POST OFFICE BOX 750, RUSSELL ROAD, GURNEE, ILLINOIS 60031
708/623-6060 FAX 708/623-3205



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ATTORNEY MURRAY R. CONZELMAN


February 13, 1992

Mr. Jerry Picha
North Shore Gas Company
122 South Michigan Avenue
Room 1035
Chicago, IL 60063

Dear Mr. Picha:

Enclosed please find the North Shore Sanitary District's analytical report sheets for the organics analyses performed on the Waukegan Tar Pit surface water. The sampling and analysis of this surface water covers those dates between December 11-12, 1991 and January 14, 1992 and follows the sampling requirements as detailed in the project's District issued connection permit correspondence of sampling the discharge whenever pumping to the District's Waukegan WTP is occurring.

The Base-Neutral organics analyses are for the time period December 11-12, 1991 through January 14, 1992 while the Volatiles organic data includes those sample dates December 27, 1991 through January 14, 1992.

All analyses were performed in accordance with 40 CFR Part 136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act; October, 1984; Methods 624 and 625.

This set of analytical results completes the sampling and analysis of the tar pit surface water as the District has been notified by Barr Engineering that the tar removal project was completed on January 15, 1992.

Should you have any questions, please feel free to call.

Sincerely,

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services
NORTH SHORE SANITARY DISTRICT

KLF:mjg
cc: Gene Lukasik
Brian Dorn
Lab File

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan STP Tar Pit **SAMPLER:** DWF

**SAMPLE TYPE:** Composite of 5 Grab Samples **ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/27/91 | 12:00<br>14:00<br>15:35<br>17:30<br>18:35 | 12/30/91 | CL | 1/19/92 | 1/21/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 3.8 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. (ug/l) |
|---|---|
| Total Xylenes | 9 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** DWF

**SAMPLE TYPE:** Composite of 2 Grab Samples **ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/28/91 | 12:45<br>03:30 | 12/30/91 | CL | 1/19/92 | 1/21/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 6.5 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc. ug/l |
|---|---|
| Acetone | 12 |
| Total Xylenes | 4 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** DWF

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/29/91 | 08:37<br>09:25<br>10:20<br>10:55<br>11:25 | 12/31/91 | CL | 1/21/92 | 1/21/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 156 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 14.2 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. ug/l |
|---|---|
| Acetone | 13 |
| Total Xylenes | 28 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grab Samples

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/2/92 | 02:00<br>03:00<br>11:50<br>13:05<br>14:20 | 1/3/92 | CL | 1/20/92 | 1/21/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 640 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | 10.6 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 130 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 68 |
| Tetrahydrofuran | 44 |
| Acetone | 34 |
| Thiobismethane | 13 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** JB; TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/3-4/92 | 02:30<br>03:30<br>01:00<br>03:00<br>05:00 | 1/6/92 | CL | 1/20/92 | 1/21/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 780 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | 3.0 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 140 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc. ug/l |
|---|---|
| Total Xylenes | 66 |
| Acetone | 32 |
| Tetrahydrofuran | 11 |
| Thiobismethane | 5 |

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
# AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** JB

**SAMPLE TYPE:** Composite of 5 Grab Samples

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/5-6/92 | 01:30<br>02:30<br>03:30<br>01:30<br>02:30 | 1/7/92 | CL | 1/21/92 | 1/22/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 1100 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | <2 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 200 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

* Denotes Internal Standard

| Also Present | Estimated Conc ug/l |
|---|---|
| Total Xylenes | 90 |
| Acetone | 41 |
| Tetrahydrofuran | 6 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grab Samples

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/9/92 | 10:00<br>11:00<br>12:00<br>14:00<br>15:00 | 1/10/92 | CL | 1/21/92 | 1/22/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 4350 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | 2.9 | ETHYL BENZENE | 86.4 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 1300 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc ug/l |
|---|---|
| Total Xylenes | 540 |
| Acetone | 15 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/10/92 | 07:30<br>08:30<br>09:25<br>10:40<br>11:30 | 1/11/92 | CL | 1/21/92 | 1/22/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 4700 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | 2.8 | ETHYL BENZENE | 97 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 1400 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc ug/l |
|---|---|
| Total Xylenes | 580 |
| Acetone | 14 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** JJ

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/11/92 | 09:30<br>10:30<br>14:30<br>15:30<br>16:30 | 1/14/92 | CL | 1/22/92 | 1/23/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 4600 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | 3.7 | ETHYL BENZENE | 126 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | 2.9 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | <2 |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 1400 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc ug/l |
|---|---|
| Total Xylenes | 620 |
| Acetone | 6 |

Karen L. Farrell
Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/13/92 | 10:00<br>11:30<br>12:45<br>13:50<br>15:00 | 1/14/92 | CL | 1/22/92 | 1/23/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 2900 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | 2.2 | ETHYL BENZENE | 43.2 |
| BROMOFORM | <2 | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | ↓ | METHYLENE CHLORIDE | 3.3 |
| CHLOROBENZENE | ↓ | 1,1,2,2-TETRACHLOROETHANE | <2 |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | ↓ |
| CHLOROFORM | <2 | TOLUENE | 780 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | ↓ |
| 1,1-DICHLOROETHANE | ↓ | TRICHLOROETHENE | ↓ |
| 1,2-DICHLOROETHANE | ↓ | TRICHLOROFLUOROMETHANE | ↓ |
| 1,1-DICHLOROETHENE | ↓ | | |
| TRANS-1,2-DICHLOROETHENE | ↓ | | |
| 1,2-DICHLOROPROPANE | ↓ | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc ug/l |
|---|---|
| Total Xylenes | 380 |

Karen L. Farrell

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Director of Laboratory Services

# EPA 624 - PURGEABLES
## AQUARIUS REPORT

**SAMPLE LOCATION:** Waukegan S.T.P. Tar Pit

**SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs

**ANALYST:** CL

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/14/92 | 10:00<br>11:25<br>12:30<br>13:30<br>14:30 | 1/15/92 | CL | 1/16/92 | 1/22/92 |

| | Conc ug/l | | Conc ug/l |
|---|---|---|---|
| *BROMOCHLOROMETHANE | 30 | CIS-1,3-DICHLOROPROPENE | <3 |
| BENZENE | 3200 | TRANS-1,3-DICHLOROPROPENE | <1 |
| BROMODICHLOROMETHANE | <2 | ETHYL BENZENE | 225 |
| BROMOFORM | | *1,4-DICHLOROBUTANE | 30 |
| CARBON TETRACHLORIDE | | METHYLENE CHLORIDE | <2 |
| CHLOROBENZENE | | 1,1,2,2-TETRACHLOROETHANE | |
| 2-CHLOROETHYLVINYL ETHER | CNV | TETRACHLOROETHENE | |
| CHLOROFORM | <2 | TOLUENE | 1000 |
| *2-BROMO-1-CHLOROPROPANE | 30 | 1,1,1-TRICHLOROETHANE | <2 |
| DIBROMOCHLOROMETHANE | <2 | 1,1,2-TRICHLOROETHANE | |
| 1,1-DICHLOROETHANE | | TRICHLOROETHENE | |
| 1,2-DICHLOROETHANE | | TRICHLOROFLUOROMETHANE | |
| 1,1-DICHLOROETHENE | | | |
| TRANS-1,2-DICHLOROETHENE | | | |
| 1,2-DICHLOROPROPANE | | | |

*** Denotes Internal Standard**

| Also Present | Estimated Conc ug/l |
|---|---|
| Total Xylenes | 520 |

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/11-12/91 | 17:58<br>23:00<br>04:00<br>08:55<br>14:05 | 12/13/91 | CFL | 12/31/91 | 1/23/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 5.9 | | Dimethyl Phthalate | | |
| Anthracene | ND | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 24.4 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/12-13/91 | 18:00<br>23:00<br>04:00<br>09:00<br>13:30 | 12/14/91 | CFL | 12/31/92 | 1/23/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** JC

**SAMPLE TYPE:** Composite of 3 Grab Samples **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/13-14/91 | 18:00<br>23:00<br>04:00 | 12/16/91 | CFL | 1/2/92 | 1/23/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 11.4 | | Dimethyl Phthalate | | |
| Anthracene | ND | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 68.5 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grab Samples **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/16-17/91 | 17:57<br>07:11<br>10:08<br>14:00<br>16:00 | 12/18/91 | CFL | 1/2/92 | 1/23/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 17.0 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 44.1 | | Dimethyl Phthalate | | |
| Anthracene | 6.4 | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | ND | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | 14.5 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 713 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 21.6 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | ND | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 3 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/18/91 | 12:14<br>12:30<br>13:30 | 12/19/91 | CFL | 1/3/92 | 1/23/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 17.7 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 40.2 | | Dimethyl Phthalate | | |
| Anthracene | ND | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | 16.2 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| enzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | 10.1 | | Naphthalene | 520 | |
| 4-Bromophenyl Phenyl Ether | ND | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 18.7 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | ND | |
| Di-n-Butyl Phthalate | CNV | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | | | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/19/91 | 11:18, 12:21, 15:55, 16:30, 17:00 | 12/20/91 | CFL | 1/3/92 | 1/27/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 15.5 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 60.0 | | Dimethyl Phthalate | | |
| Anthracene | 6.2 | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | ND | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | 15.6 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 868 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 21.1 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | ND | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 10 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/20-22/91 | | 12/23/91 | CFL | 1/3/92 | 1/27/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 13.6 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 84.1 | | Dimethyl Phthalate | | |
| Anthracene | 5.9 | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | ND | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | 18.5 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 1030 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 21.8 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | ND | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** DWF

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/27/91 | | 12/30/91 | CFL | 1/15/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| enzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** DWF

**SAMPLE TYPE:** Composite of 2 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/28/91 | 00:45<br>03:30 | 12/30/91 | JMT | 1/15/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** DWF

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 12/29/91 | 08:30<br>09:25<br>10:20<br>10:55<br>11:25 | 12/30/91 | CFL | 1/16/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/2/92 | 02:00<br>03:00<br>11:50<br>13:05<br>14:20 | 1/3/92 | CFL | 1/16/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | | | Dimethyl Phthalate | | |
| Anthracene | | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | | |
| Dibenzo (a,h) Anthracene | | | Pyrene | | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/3-4/92 | 14:30<br>15:30<br>01:00<br>03:00<br>05:00 | 1/6/92 | CFL | 1/16/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 5.9 | | Dimethyl Phthalate | | |
| Anthracene | ND | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 5.3 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 8.3 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | 5.2 | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | ND | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** JB

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/5-6/92 | 01:30<br>02:30<br>03:30<br>01:30<br>02:30 | 1/7/92 | CFL | 1/17/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | ND | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 9.3 | | Dimethyl Phthalate | | |
| Anthracene | ND | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 156 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 6.2 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | ND | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/9/92 | 10:00<br>11:00<br>12:00<br>14:00<br>15:00 | 1/10/92 | CFL | 1/17/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 35.2 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 96.1 | | Dimethyl Phthalate | | |
| Anthracene | 10.4 | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | ND | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | 8.6 | |
| Benzo (ghi) Perylene | | | Fluorene | 21.6 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 1470 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 35.7 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | 13.1 | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | ND | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/10/92 | 07:30<br>08:30<br>09:25<br>10:40<br>11:30 | 1/11/92 | CFL | 1/17/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 32.6 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 92.5 | | Dimethyl Phthalate | | |
| Anthracene | 10.6 | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | 8.6 | |
| Benzo (ghi) Perylene | | | Fluorene | 20.4 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 1820 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 37.1 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | 12.4 | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | ND | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** JJ

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/11/92 | 09:30<br>11:30<br>14:30<br>15:30<br>16:30 | 1/12/92 | CFL | 1/20/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 31.7 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 98.6 | | Dimethyl Phthalate | | |
| Anthracene | 7.2 | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | ND | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | 6.2 | |
| Benzo (ghi) Perylene | | | Fluorene | 20.2 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 1480 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 31.4 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | 9.4 | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | ND | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/13/92 | 10:00, 11:30, 12:45, 13:50, 15:00 | 1/14/92 | CFL | 1/21/92 | 1/28/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 28.8 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 87.6 | | Dimethyl Phthalate | | |
| Anthracene | 8.1 | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | ND | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | 5.6 | |
| Benzo (ghi) Perylene | | | Fluorene | 19.7 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| Benzidine | CNV | | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 1520 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 29.1 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | 8.4 | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | ND | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell

Karen L. Farrell
Director of Laboratory Services

# EPA 625 - BASE/NEUTRALS
## AQUARIUS REPORT

**SAMPLE LOCATION:** Tar Pit (WSTP Property) **SAMPLER:** TDM

**SAMPLE TYPE:** Composite of 5 Grabs **ANALYST:** JMT

| SAMPLE DATE | TIME OF SAMPLE | DATE RECEIVED | ACCEPTED BY | ANALYSIS COMPLETED | DATE REPORTED |
|---|---|---|---|---|---|
| 1/14/92 | 10:00<br>11:25<br>12:30<br>13:30<br>14:30 | 1/15/92 | CFL | 1/22/92 | 1/30/92 |

| | Conc ug/l | MDL Conc ug/l | | Conc ug/l | MDL Conc ug/l |
|---|---|---|---|---|---|
| Acenaphthene | 28.4 | 5.0 | Diethyl Phthalate | ND | 5.0 |
| Acenaphthylene | 93.0 | | Dimethyl Phthalate | | |
| Anthracene | 5.7 | | 2,4-Dinitrotoluene | | |
| Benzo (a) Anthracene | ND | | 2,6-Dinitrotoluene | | |
| Benzo (b) Fluoranthene | | | Di-n-Octyl Phthalate | | |
| Benzo (k) Fluoranthene | | | Fluoranthene | | |
| Benzo (ghi) Perylene | | | Fluorene | 19.3 | |
| Benzo (a) Pyrene | | | Hexachlorobenzene | ND | |
| Benzidine | CNV | - | Hexachlorobutadiene | | |
| Butyl Benzyl Phthalate | ND | 5.0 | Hexachlorocyclopentadiene | | |
| Bis (2-Chloroethoxy) Methane | | | Hexachloroethane | | |
| Bis (2-Chloroethyl) Ether | | | Indeno (1,2,3-c,d) Pyrene | | |
| Bis (2-Chloroisopropyl) Ether | | | Isophorone | | |
| Bis (2-Ethylhexyl) Phthalate | | | Naphthalene | 1380 | |
| 4-Bromophenyl Phenyl Ether | | | Nitrobenzene | ND | |
| 2-Chloronaphthalene | | | N-Nitrosodi-n-Propylamine | | |
| 4-Chlorophenyl Phenyl Ether | | | N-Nitrosodiphenylamine | | |
| Chrysene | | | Phenanthrene | 24.7 | |
| Dibenzo (a,h) Anthracene | | | Pyrene | ND | |
| Di-n-Butyl Phthalate | | | 1,2,4-Trichlorobenzene | | |
| 1,2-Dichlorobenzene | | | | | |
| 1,3-Dichlorobenzene | | | | | |
| 1,4-Dichlorobenzene | | | | | |
| 3,3'-Dichlorobenzidine | CNV | - | | | |

MDL denotes Method Detection Limit
ND denotes Not Detected

Karen L. Farrell
Director of Laboratory Services

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December 31, 1991

LMG27317.XY

92

Ms. Mary Mackey
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, Minnesota 55437-1026

RE: Analytical Data for LMG Laboratory No. 20457

Dear Ms. Mackey:

On December 13, 1991, the CH2M HILL Montgomery Laboratory received three samples with a request for analysis of selected organic parameters.

The analytical results and associated quality control data are enclosed. Any unusual difficulties encountered during the analyses of these samples are discussed in the case narratives.

If you should have any questions concerning the data, please inquire.

The CH2M HILL policy is to store samples for up to 30 days after reporting. If you desire, our laboratory will maintain your samples for a longer period at a cost of $5.00 per sample per month. Samples determined to be hazardous can either be returned to you or disposed of at a cost of $25.00 per sample.

Sincerely,

Angie Smith

for Wanda L. Hall
Data Package Supervisor

Enclosures

cc: Mr. Larry Dalen

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# ANALYTICAL METHODS

## Organic Analysis

Priority Pollutants: Water, soil and waste sample are analyzed in accordance with procedures described in Methods 608, 624, and 625, EPA-600/4-82-057 (1982); Methods 8080, 8240, and 8270, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition; and methods outlined in the USEPA Contract Laboratory Program Statement of Work for Organics Analysis, February, 1988.

Volatile Analysis (Safe Drinking Water Act): Water samples are analyzed in accordance with procedures described in Method 524.2, Federal Register (50 FR 46902), November 13, 1985.

Chlorinated Phenoxyacid Herbicides: Samples are analyzed in accordance with procedures described in Method 8150, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition.

Organophosphorous Pesticides: Samples are analyzed in accordance with procedures described in Methods 614 and 622, EPA-600/4-79-019 (1979) and in Method 8140, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition.

Phenolic Acid Analysis by GC: Samples are analyzed in accordance with procedures described in Method 604, Federal Register, 40 CFR, Part 136 (July 1, 1987) and in Method 8040, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition.

Polynuclear Aromatic Hydrocarbons (GC analysis): Samples are analyzed in accordance with procedures described in Method 610, Federal Register, 40 CFR, Part 136 (July 1, 1987) and in Method 8100, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition.

Ethylene Dibromide: Water samples are analyzed in accordance with procedures described in Method 504, Federal Register, (50 FR 46902), November 13, 1985.

Trihalomethanes: Water samples are analyzed in accordance with procedures described in Method 501.2, Federal Register, Vol. 44, No. 231, Part II, November 29, 1979.



CH2M HILL Quality Analytical Laboratories 2567 Fairlane Drive, P.O. Box 230548, Montgomery, Alabama 36116 205 271 1444

# EPA - DEFINED QUALIFIERS

## ORGANICS

Definitions for the EPA-defined qualifiers:

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the quantitation limit for that compound. The detection limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J -- Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound below the stated quantitation limit. The "J" qualifier is not used with pesticide results.

C -- This flag applies to pesticide results only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B -- This flag is used when the analyte is found in the associated blank as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E -- This flag applies to GC/MS only. The "E" qualifier indicates a compound may be above or below the linear range of the instrument. If the particular compound level is deemed above the linear calibration range, then the sample should be reanalyzed at an appropriate dilution. Therefore, the "E" qualified amount is an estimated concentration. The results for the dilution will be reported on a separate Form I and will be flagged with a "D" if the dilution brings the concentration within proper calibration.

D -- This flag identifies compounds which have been run at a dilution to bring the concentration of that compound within the linear range of the instrument. "D" qualifiers are only used for samples that have been run initially with results above acceptable ranges. For secondary dilutions the "DL" suffix is appended to the sample number on the Form I.

A -- Indicates the Tentatively Identified Compound (TIC) is a suspected aldol-condensation product.

X -- Indicates the compound concentration has been manually modified or the EPA qualifier has been manually modified or added.

JX -- The compound was detected and quantitated below the Contract Required Quantitation Limit.



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## CLIENT SAMPLE ID QUALIFIERS

### LEVEL 1

The qualifiers that GC/MS and GC use with the client sample ID are defined below:

**DL** -- Dilution Run

**R** -- Rerun (may be followed by a digit to indicate multiple reruns)

**RD** -- Diluted Rerun

**RX** -- Re-extraction Analysis

**MS** -- Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

**MSD** -- Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

**QC_BLANK** -- Method Blank (may be followed by a "W" for waters, "S" for soils run at a low level, or "SM" for soils run at a medium level -- these letters may be followed by a digit to indicate multiple blanks of that type; if there are no letters, the digit indicates multiple blanks).

These qualifiers allow GC/MS and GC to have unique client sample ID's so that the client can get more accurate information from the data reported.



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**TABLE 1**

**SAMPLE CROSS-REFERENCE SUMMARY**

**CH2M HILL Laboratory No. 20457**

| CH2M HILL Sample No. | Sample Description | | | |
|---|---|---|---|---|
| 20457001 | #1,2,3,4,5 | 12/12-13/91 | 13/49-004JSL01 | PO#00388 |
| 20457002 | FIELD BLANK | 12/13/91 | 13/49-004JSL01 | PO#00388 |
| 20457003 | #2 EFFLUENT | 12/13/91 | 13/49-004JSL01 | PO#00388 |



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# CASE NARRATIVE FOR VOLATILE MASS SPECTROMETRY SAMPLES

LABORATORY: CH2M HILL LABORATORIES CLIENT: BARR ENGINEERING

CASE NO. : N/A CONTRACT NO.: N/A

LAB NO. : 20457 SDG NO.: N/A

---

I. RECEIPT

A. DATE: May 14, 1991

B. SAMPLE INFORMATION

| LAB ID | CLIENT ID | SAMPLE MATRIX | DATE SAMPLED | EXTRACTION DATE | ANALYSIS DATE |
|---|---|---|---|---|---|
| 20457001 | _1_2_3_4_5 | WATER | 12/13/91 | NA | 12/23/91 |
| 20457001DL | _1_2_3_4_5DL | WATER | 12/13/91 | NA | 12/23/91 |
| 20457002 | FIELD BLANK | WATER | 12/13/91 | NA | 12/23/91 |
| X12231B1 | QC_BLANK_W | WATER | NA | NA | 12/23/91 |

C. Documentation
Exceptions : Tentatively Identified Compounds were not requested as part of this analysis. Therefore, these forms will not be included.

No exceptions were encountered.

000001

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, extraction time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding times: All holding times were met.

B. Analytical Exceptions : The original analysis of sample 20457001 showed the quantitation ion for benzene saturated. The sample was diluted and reanalyzed. The results of both analyses have been reported.

Unless otherwise indicated, all water volatile samples were analyzed using the HCl-preserved vial.

No other exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : All associated method blanks met acceptable QC criteria.

B. Surrogate Recoveries : All samples met acceptable QC limits.

C. Matrix Spike Results : Matrix spike results have not been reported with this contract.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Herb Kelly 12/31/91

Herb Kelly Date
Manager, Organic Division



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# ORGANICS ANALYSIS DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | |
| Lab Sample ID: | 20457001 | Sample Matrix: | WATER | Date Analyzed: | 12/23/91 |
| Client Sample ID: | 1 2 3 4 5 | Percent Moisture: | | Dilution Factor: | 1.0 |

## VOLATILE (8240) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U | 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U | 591-78-6 | 2-Hexanone | 10 | U |
| 75-01-4 | Vinyl chloride | 10 | U | 108-10-1 | 4-Methyl-2-pentanone | 10 | U |
| 75-00-3 | Chloroethane | 10 | U | 127-18-4 | Tetrachloroethene | 5 | U |
| 75-09-2 | Methylene chloride | 12 | B | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 67-64-1 | Acetone | 11 | B | 108-88-3 | Toluene | 60 | |
| 75-15-0 | Carbon disulfide | 5 | U | 108-90-7 | Chlorobenzene | 5 | U |
| 75-69-4 | Trichlorofluoromethane | 5 | U | 100-41-4 | Ethylbenzene | 14 | |
| 75-35-4 | 1,1-Dichloroethene | 5 | U | 100-42-5 | Styrene | 8 | |
| 75-34-3 | 1,1-Dichloroethane | 5 | U | 1330-20-7 | Xylenes (total) | 29 | |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U | 541-73-1 | 1,3-Dichlorobenzene | 5 | U |
| 67-66-3 | Chloroform | 5 | U | 106-46-7 | 1,4-Dichlorobenzene | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U | 95-50-1 | 1,2-Dichlorobenzene | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U | 107-02-8 | Acrolein | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U | 74-88-4 | Iodomethane | 10 | U |
| 56-23-5 | Carbon tetrachloride | 5 | U | 107-13-1 | Acrylonitrile | 100 | U |
| 108-05-4 | Vinyl acetate | 10 | U | 74-95-3 | Dibromomethane | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U | 97-63-2 | Ethyl Methacrylate | 5 | U |
| 37-5 | 1,2-Dichloropropane | 5 | U | 96-18-4 | 1,2,3-Trichloropropane | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U | 110-57-6 | Trans-1,4-Dichloro-2-Butene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U | | --- | | |
| 124-48-1 | Dibromochloromethane | 5 | U | | Toluene-d8 - SS | 111 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U | | 1,4-Bromofluorobenzene - SS | 100 | |
| 71-43-2 | Benzene | 200 | | | 1,2-Dichloroethane-d4 - SS | 96 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U | | | | |
| 110-75-8 | 2-Chloroethylvinylether | 10 | U | | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000003

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# ORGANICS ANALYSIS DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | |
| Lab Sample ID: | 20457001DL | Sample Matrix: | WATER | Date Analyzed: | 12/23/91 |
| Client Sample ID: | 1 2 3 4 5 DL | Percent Moisture: | | Dilution Factor: | 2.0 |

## VOLATILE (8240) COMPOUNDS

| CAS Number | | ug/L | |
|---|---|---|---|
| 74-87-3 | Chloromethane | 20 | U |
| 74-83-9 | Bromomethane | 20 | U |
| 75-01-4 | Vinyl chloride | 20 | U |
| 75-00-3 | Chloroethane | 20 | U |
| 75-09-2 | Methylene chloride | 17 | B |
| 67-64-1 | Acetone | 18 | BJ |
| 75-15-0 | Carbon disulfide | 10 | U |
| 75-69-4 | Trichlorofluoromethane | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon tetrachloride | 10 | U |
| 108-05-4 | Vinyl acetate | 20 | U |
| 27-4 | Bromodichloromethane | 10 | U |
| 87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 210 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 110-75-8 | 2-Chloroethylvinylether | 20 | U |

| CAS Number | | ug/L | |
|---|---|---|---|
| 75-25-2 | Bromoform | 10 | U |
| 591-78-6 | 2-Hexanone | 20 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 63 | |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 13 | |
| 100-42-5 | Styrene | 8 | J |
| 1330-20-7 | Xylenes (total) | 27 | |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 107-02-8 | Acrolein | 200 | U |
| 74-88-4 | Iodomethane | 20 | U |
| 107-13-1 | Acrylonitrile | 200 | U |
| 74-95-3 | Dibromomethane | 2 | J |
| 97-63-2 | Ethyl Methacrylate | 10 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 10 | U |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | 10 | U |
| | Toluene-d8 - SS | 104 | |
| | 1,4-Bromofluorobenzene - S | 98 | |
| | 1,2-Dichloroethane-d4 - SS | 105 | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I



MJP

CH2M HILL Quality Analytical Laboratories 2567 Fairlane Drive, P.O. Box 230548, Montgomery, Alabama 36116 205 271 1444

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# ORGANICS ANALYSIS DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | |
| Lab Sample ID: | 20457002 | Sample Matrix: | WATER | Date Analyzed: | 12/23/91 |
| Client Sample ID: | FIELD BLANK | Percent Moisture: | | Dilution Factor: | 1.0 |

## VOLATILE (8240) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U | 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U | 591-78-6 | 2-Hexanone | 10 | U |
| 75-01-4 | Vinyl chloride | 10 | U | 108-10-1 | 4-Methyl-2-pentanone | 10 | U |
| 75-00-3 | Chloroethane | 10 | U | 127-18-4 | Tetrachloroethene | 5 | U |
| 75-09-2 | Methylene chloride | 6 | B | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 67-64-1 | Acetone | 6 | BJ | 108-88-3 | Toluene | 5 | U |
| 75-15-0 | Carbon disulfide | 5 | U | 108-90-7 | Chlorobenzene | 5 | U |
| 75-69-4 | Trichlorofluoromethane | 5 | U | 100-41-4 | Ethylbenzene | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U | 100-42-5 | Styrene | 5 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U | 1330-20-7 | Xylenes (total) | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U | 541-73-1 | 1,3-Dichlorobenzene | 5 | U |
| 67-66-3 | Chloroform | 1 | J | 106-46-7 | 1,4-Dichlorobenzene | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U | 95-50-1 | 1,2-Dichlorobenzene | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U | 107-02-8 | Acrolein | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U | 74-88-4 | Iodomethane | 10 | U |
| 56-23-5 | Carbon tetrachloride | 5 | U | 107-13-1 | Acrylonitrile | 100 | U |
| 108-05-4 | Vinyl acetate | 10 | U | 74-95-3 | Dibromomethane | 5 | U |
| 7[illegible]27-4 | Bromodichloromethane | 5 | U | 97-63-2 | Ethyl Methacrylate | 5 | U |
| [illegible]37-5 | 1,2-Dichloropropane | 5 | U | 96-18-4 | 1,2,3-Trichloropropane | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U | 110-57-6 | Trans-1,4-Dichloro-2-Butene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U | | --- | | |
| 124-48-1 | Dibromochloromethane | 5 | U | | Toluene-d8 - SS | 117 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U | | 1,4-Bromofluorobenzene - SS | 113 | |
| 71-43-2 | Benzene | 5 | U | | 1,2-Dichloroethane-d4 - SS | 101 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U | | | | |
| 110-75-8 | 2-Chloroethylvinylether | 10 | U | | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I



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# ORGANICS ANALYSIS DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | |
| Lab Sample ID: | X12231B1 | Sample Matrix: | WATER | Date Analyzed: | 12/23/91 |
| Client Sample ID: | QC BLANK W | Percent Moisture: | | Dilution Factor: | 1.0 |

## VOLATILE (8240) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 74-87-3 | Chloromethane . . . . . | 10 | U | 75-25-2 | Bromoform . . . . . | 5 | U |
| 74-83-9 | Bromomethane . . . . . | 10 | U | 591-78-6 | 2-Hexanone . . . . . | 10 | U |
| 75-01-4 | Vinyl chloride . . . . . | 10 | U | 108-10-1 | 4-Methyl-2-pentanone . . . | 10 | U |
| 75-00-3 | Chloroethane . . . . . | 10 | U | 127-18-4 | Tetrachloroethene . . . . | 5 | U |
| 75-09-2 | Methylene chloride . . . . | 2 | BJ | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 67-64-1 | Acetone . . . . . | 4 | BJ | 108-88-3 | Toluene . . . . . | 5 | U |
| 75-15-0 | Carbon disulfide . . . . . | 5 | U | 108-90-7 | Chlorobenzene . . . . . | 5 | U |
| 75-69-4 | Trichlorofluoromethane . . | 5 | U | 100-41-4 | Ethylbenzene . . . . . | 5 | U |
| 75-35-4 | 1,1-Dichloroethene . . . . | 5 | U | 100-42-5 | Styrene . . . . . | 5 | U |
| 75-34-3 | 1,1-Dichloroethane . . . . | 5 | U | 1330-20-7 | Xylenes (total) . . . . . | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U | 541-73-1 | 1,3-Dichlorobenzene . . . | 5 | U |
| 67-66-3 | Chloroform . . . . . | 5 | U | 106-46-7 | 1,4-Dichlorobenzene . . . | 5 | U |
| 107-06-2 | 1,2-Dichloroethane . . . . | 5 | U | 95-50-1 | 1,2-Dichlorobenzene . . . | 5 | U |
| 78-93-3 | 2-Butanone . . . . . | 10 | U | 107-02-8 | Acrolein . . . . . | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane . . | 5 | U | 74-88-4 | Iodomethane . . . . . | 10 | U |
| 56-23-5 | Carbon tetrachloride . . . | 5 | U | 107-13-1 | Acrylonitrile . . . . . | 100 | U |
| 108-05-4 | Vinyl acetate . . . . . | 10 | U | 74-95-3 | Dibromomethane . . . . . | 5 | U |
| [illegible]27-4 | Bromodichloromethane . . . | 5 | U | 97-63-2 | Ethyl Methacrylate . . . . | 5 | U |
| [illegible]37-5 | 1,2-Dichloropropane . . . | 5 | U | 96-18-4 | 1,2,3-Trichloropropane . . | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene . | 5 | U | 110-57-6 | Trans-1,4-Dichloro-2-Butene | 5 | U |
| 79-01-6 | Trichloroethene . . . . . | 5 | U | | --- | | |
| 124-48-1 | Dibromochloromethane . . . | 5 | U | | Toluene-d8 - SS . . . . . | 107 | |
| 79-00-5 | 1,1,2-Trichloroethane . . | 5 | U | | 1,4-Bromofluorobenzene - SS | 100 | |
| 71-43-2 | Benzene . . . . . | 5 | U | | 1,2-Dichloroethane-d4 - SS | 100 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U | | | | |
| 110-75-8 | 2-Chloroethylvinylether . | 10 | U | | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I



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# CASE NARRATIVE FOR SEMIVOLATILE MASS SPECTROMETRY SAMPLES

LABORATORY: CH2M HILL LABORATORIES CLIENT: BARR ENGINEERING

CASE NO. : N/A CONTRACT NO.: N/A

LAB NO. : 20457 SDG NO.: N/A

---

## I. RECEIPT

A. DATE: May 14, 1991

B. SAMPLE INFORMATION

| LAB ID | CLIENT ID | SAMPLE MATRIX | DATE SAMPLED | EXTRACTION DATE | ANALYSIS DATE |
|---|---|---|---|---|---|
| 20457003 | _2_EFFLUENT | WATER | 12/13/91 | 12/16/91 | 12/20/91 |
| 20457003RX | _2_EFFLUENTRX | WATER | 12/13/91 | 12/23/91 | 12/27/91 |
| C12161B1 | QC_BLANK_W | WATER | NA | 12/16/91 | 12/20/91 |
| W12231B1 | QC_BLANK_W_2 | WATER | NA | 12/23/91 | 12/27/91 |

C. Documentation Exceptions : Tentatively Identified Compounds were not requested as part of this analysis. Therefore, these forms will not be included.

No exceptions were encountered.

000007

II. EXTRACTION

A. Holding Times: All original extraction were performed within holding times. Sample 20457003 was reextracted outside of holding time.

B. Extraction Exceptions : The original analysis of sample 20457003 showed phenol at 43 mg/L. The laboratory has recently discovered phenol contamination in the glassware; therefore, the sample was reextracted and reanalyzed. The reanalysis showed no phenol detected in the sample. Since the reextraction was performed outside of holding times the results of both analyses have been reported. No other exceptions were encountered.

III. ANALYSIS

A. Holding times: All holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : All associated method blanks met acceptable QC criteria.

B. Surrogate Recoveries : All samples met acceptable QC limits.

C. Matrix Spike Results : Matrix spike results have not been reported with this contract.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Herb Kelly 12/3/91

Herb Kelly Date
Manager, Organic Division

000008

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# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/16/91 |
| Lab Sample ID: | 20457003 | Sample Matrix: | WATER | Date Analyzed: | 12/20/91 |
| Client Sample ID: | 2 EFFLUENT | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 62-75-9 | N-Nitrosodimethylamine | 10 | U | 132-64-9 | Dibenzofuran | 10 | U |
| 108-95-2 | Phenol | 43 | | 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 62-53-3 | Aniline | 10 | U | 84-66-2 | Diethylphthalate | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U | 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U | 86-73-7 | Fluorene | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U | 100-01-6 | 4-Nitroaniline | 50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U | 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U | 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U | 122-66-7 | 1,2-Diphenylhydrazine | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U | 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U | 118-74-1 | Hexachlorobenzene | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U | 87-86-5 | Pentachlorophenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U | 85-01-8 | Phenanthrene | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U | 120-12-7 | Anthracene | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U | 84-74-2 | Di-n-butylphthalate | 2 | J |
| 78-59-1 | Isophorone | 10 | U | 206-44-0 | Fluoranthene | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U | 129-00-0 | Pyrene | 10 | U |
| 1[illegible]-67-9 | 2,4-Dimethylphenol | 7 | J | 85-68-7 | Butylbenzylphthalate | 10 | [illegible] |
| [illegible]5-0 | Benzoic acid | 50 | U | 91-94-1 | 3,3'-Dichlorobenzidine | 20 | [illegible] |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U | 56-55-3 | Benzo(a)anthracene | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U | 218-01-9 | Chrysene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U | 117-84-0 | Di-n-octylphthalate | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U | 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U | 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U | 50-32-8 | Benzo(a)pyrene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U | 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U | 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10 | U | 191-24-2 | Benzo(g,h,i)perylene | 10 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U | 109-06-8 | 2-Picoline | 50 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U | 66-27-3 | Methyl methanesulfonate | 10 | U |
| 131-11-3 | Dimethylphthalate | 10 | U | 62-50-0 | Ethyl methanesulfonate | 10 | U |
| 208-96-8 | Acenaphthylene | 5 | J | 98-86-2 | Acetophenone | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U | 100-75-4 | N-Nitrosopiperidine | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U | 122-09-8 | Phenyl-tert-butylamine | 50 | U |
| 83-32-9 | Acenaphthene | 3 | J | 87-65-0 | 2,6-Dichlorophenol | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U | 924-16-3 | N-Nitroso-di-n-butylamine | 10 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U | | | | |

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
' - Reported value less than quantitation limit.

Form I



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# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/16/91 |
| Lab Sample ID: | 20457003 | Sample Matrix: | WATER | Date Analyzed: | 12/20/91 |
| Client Sample ID: | 2 EFFLUENT | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | ug/L |
|---|---|---|---|---|---|
| 120-83-2 | 2,4-Dichlorophenol . . . . | 10 | U | | |
| 92-87-5 | Benzidine . . . . . | 50 | U | | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 50 | U | | |
| 608-93-5 | Pentachlorobenzene . . . . | 50 | U | | |
| 134-32-7 | 1-Naphthylamine . . . . . | 50 | U | | |
| 91-59-8 | 2-Naphthylamine . . . . . | 50 | U | | |
| 90-13-1 | 1-Chloronaphthalene . . . | 10 | U | | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 10 | U | | |
| 122-39-4 | Diphenylamine . . . . . | 10 | U | | |
| 62-44-2 | Phenacetin . . . . . | 10 | U | | |
| 92-67-1 | 4-Aminobiphenyl . . . . . | 50 | U | | |
| 82-68-8 | Pentachloronitrobenzene . | 50 | U | | |
| 23950-58-5 | Pronamide . . . . . | 10 | U | | |
| 60-11-7 | p-Dimethylaminoazobenzene | 10 | U | | |
| 57-97-6 | 7,12-Dimethylbenz(a)Anthrac | 10 | U | | |
| 56-49-5 | 3-Methylcholanthrene . . . | 10 | U | | |
| | --- | | | | |
| | --- | | | | |
| | Nitrobenzene-d5 - SS . . . | 76 | | | |
| | 2-Fluorobiphenyl - SS . . | 64 | | | |
| | Terphenyl-d14 - SS . . . . | 58 | | | |
| | Phenol-d5 - SS . . . . . | 66 | | | |
| | 2-Fluorophenol - SS . . . | 63 | | | |
| | 2,4,6-Tribromophenol - SS | 78 | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000010

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# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/23/9[illegible] |
| Lab Sample ID: | 20457003RX | Sample Matrix: | WATER | Date Analyzed: | 12/27/91 |
| Client Sample ID: | 2 EFFLUENT RX | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 62-75-9 | N-Nitrosodimethylamine | 10 | U | 132-64-9 | Dibenzofuran | 10 | U |
| 108-95-2 | Phenol | 20 | | 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 62-53-3 | Aniline | 10 | U | 84-66-2 | Diethylphthalate | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U | 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U | 86-73-7 | Fluorene | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U | 100-01-6 | 4-Nitroaniline | 50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U | 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U | 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U | 122-66-7 | 1,2-Diphenylhydrazine | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U | 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U | 118-74-1 | Hexachlorobenzene | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U | 87-86-5 | Pentachlorophenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U | 85-01-8 | Phenanthrene | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U | 120-12-7 | Anthracene | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U | 84-74-2 | Di-n-butylphthalate | 10 | U |
| 78-59-1 | Isophorone | 10 | U | 206-44-0 | Fluoranthene | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U | 129-00-0 | Pyrene | 10 | U |
| 1[illegible]-67-9 | 2,4-Dimethylphenol | 10 | U | 85-68-7 | Butylbenzylphthalate | 10 | U |
| [illegible]35-0 | Benzoic acid | 50 | U | 91-94-1 | 3,3'-Dichlorobenzidine | 20 | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U | 56-55-3 | Benzo(a)anthracene | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U | 218-01-9 | Chrysene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U | 117-84-0 | Di-n-octylphthalate | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U | 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U | 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U | 50-32-8 | Benzo(a)pyrene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U | 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U | 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10 | U | 191-24-2 | Benzo(g,h,i)perylene | 10 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U | 109-06-8 | 2-Picoline | 50 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U | 66-27-3 | Methyl methanesulfonate | 10 | U |
| 131-11-3 | Dimethylphthalate | 10 | U | 62-50-0 | Ethyl methanesulfonate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U | 98-86-2 | Acetophenone | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U | 100-75-4 | N-Nitrosopiperidine | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U | 122-09-8 | Phenyl-tert-butylamine | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U | 87-65-0 | 2,6-Dichlorophenol | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U | 924-16-3 | N-Nitroso-di-n-butylamine | 10 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U | | | | |

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
T - Reported value less than quantitation limit.

000011

Form I

MTF

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Scientists

# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/23/91 |
| Lab Sample ID: | 20457003RX | Sample Matrix: | WATER | Date Analyzed: | 12/27/91 |
| Client Sample ID: | 2 EFFLUENT RX | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | ug/L |
|---|---|---|---|---|---|
| 120-83-2 | 2,4-Dichlorophenol . . . . | 10 | U | | |
| 92-87-5 | Benzidine . . . . . | 50 | U | | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 50 | U | | |
| 608-93-5 | Pentachlorobenzene . . . . | 50 | U | | |
| 134-32-7 | 1-Naphthylamine . . . . . | 50 | U | | |
| 91-59-8 | 2-Naphthylamine . . . . . | 50 | U | | |
| 90-13-1 | 1-Chloronaphthalene . . . | 10 | U | | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 10 | U | | |
| 122-39-4 | Diphenylamine . . . . . | 10 | U | | |
| 62-44-2 | Phenacetin . . . . . | 10 | U | | |
| 92-67-1 | 4-Aminobiphenyl . . . . . | 50 | U | | |
| 82-68-8 | Pentachloronitrobenzene . | 50 | U | | |
| 23950-58-5 | Pronamide . . . . . | 10 | U | | |
| 60-11-7 | p-Dimethylaminoazobenzene | 10 | U | | |
| 57-97-6 | 7,12-Dimethylbenz(a)Anthrac | 10 | U | | |
| 56-49-5 | 3-Methylcholanthrene . . . | 10 | U | | |
| | --- | | | | |
| | --- | | | | |
| | Nitrobenzene-d5 - SS . . . | 54 | | | |
| | 2-Fluorobiphenyl - SS . . | 48 | | | |
| | Terphenyl-d14 - SS . . . . | 76 | | | |
| | Phenol-d5 - SS . . . . . | 19 | | | |
| | 2-Fluorophenol - SS . . . | 32 | | | |
| | 2,4,6-Tribromophenol - SS | 73 | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I



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# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/16/91 |
| Lab Sample ID: | C12161B1 | Sample Matrix: | WATER | Date Analyzed: | 12/20/91 |
| Client Sample ID: | QC BLANK W | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 62-75-9 | N-Nitrosodimethylamine | 10 | U | 132-64-9 | Dibenzofuran | 10 | U |
| 108-95-2 | Phenol | 10 | U | 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 62-53-3 | Aniline | 10 | U | 84-66-2 | Diethylphthalate | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U | 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U | 86-73-7 | Fluorene | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U | 100-01-6 | 4-Nitroaniline | 50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U | 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U | 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U | 122-66-7 | 1,2-Diphenylhydrazine | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U | 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U | 118-74-1 | Hexachlorobenzene | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U | 87-86-5 | Pentachlorophenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U | 85-01-8 | Phenanthrene | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U | 120-12-7 | Anthracene | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U | 84-74-2 | Di-n-butylphthalate | 10 | U |
| 78-59-1 | Isophorone | 10 | U | 206-44-0 | Fluoranthene | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U | 129-00-0 | Pyrene | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U | 85-68-7 | Butylbenzylphthalate | 10 | U |
| [illegible]5-0 | Benzoic acid | 50 | U | 91-94-1 | 3,3'-Dichlorobenzidine | 20 | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U | 56-55-3 | Benzo(a)anthracene | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U | 218-01-9 | Chrysene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U | 117-84-0 | Di-n-octylphthalate | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U | 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U | 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U | 50-32-8 | Benzo(a)pyrene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U | 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U | 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10 | U | 191-24-2 | Benzo(g,h,i)perylene | 10 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U | 109-06-8 | 2-Picoline | 50 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U | 66-27-3 | Methyl methanesulfonate | 10 | U |
| 131-11-3 | Dimethylphthalate | 10 | U | 62-50-0 | Ethyl methanesulfonate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U | 98-86-2 | Acetophenone | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U | 100-75-4 | N-Nitrosopiperidine | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U | 122-09-8 | Phenyl-tert-butylamine | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U | 87-65-0 | 2,6-Dichlorophenol | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U | 924-16-3 | N-Nitroso-di-n-butylamine | 10 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U | | | | |

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
T - Reported value less than quantitation limit.

Form I



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ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/16/91 |
| Lab Sample ID: | C12161B1 | Sample Matrix: | WATER | Date Analyzed: | 12/20/91 |
| Client Sample ID: | QC BLANK W | Percent Moisture: | | Dilution Factor: | 1.0 |

SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | ug/L |
|---|---|---|---|---|---|
| 120-83-2 | 2,4-Dichlorophenol . . . . | 10 | U | | |
| 92-87-5 | Benzidine . . . . . | 50 | U | | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 50 | U | | |
| 608-93-5 | Pentachlorobenzene . . . . | 50 | U | | |
| 134-32-7 | 1-Naphthylamine . . . . . | 50 | U | | |
| 91-59-8 | 2-Naphthylamine . . . . . | 50 | U | | |
| 90-13-1 | 1-Chloronaphthalene . . . | 10 | U | | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 10 | U | | |
| 122-39-4 | Diphenylamine . . . . . | 10 | U | | |
| 62-44-2 | Phenacetin . . . . . | 10 | U | | |
| 92-67-1 | 4-Aminobiphenyl . . . . . | 50 | U | | |
| 82-68-8 | Pentachloronitrobenzene . | 50 | U | | |
| 23950-58-5 | Pronamide . . . . . | 10 | U | | |
| 60-11-7 | p-Dimethylaminoazobenzene | 10 | U | | |
| 57-97-6 | 7,12-Dimethylbenz(a)Anthrac | 10 | U | | |
| 56-49-5 | 3-Methylcholanthrene . . . | 10 | U | | |
| | --- | | | | |
| | --- | | | | |
| | Nitrobenzene-d5 - SS . . . | 76 | | | |
| | 2-Fluorobiphenyl - SS . . | 67 | | | |
| | Terphenyl-d14 - SS . . . . | 62 | | | |
| | Phenol-d5 - SS . . . . . | 68 | | | |
| | 2-Fluorophenol - SS . . . | 70 | | | |
| | 2,4,6-Tribromophenol - SS | 76 | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

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# ORGANICS ANALYSIS DATA SHEET



Laboratory Name: CH2M HILL/MGM
Lab Sample ID: W12231B1
Client Sample ID: QC BLANK W 2

Concentration: LOW
Sample Matrix: WATER
Percent Moisture: _____

Date Extracted: 12/23/9
Date Analyzed: 12/27/91
Dilution Factor: 1.0

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 62-75-9 | N-Nitrosodimethylamine | 10 | U | 132-64-9 | Dibenzofuran | 10 | U |
| 108-95-2 | Phenol | 10 | U | 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 62-53-3 | Aniline | 10 | U | 84-66-2 | Diethylphthalate | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U | 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U | 86-73-7 | Fluorene | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U | 100-01-6 | 4-Nitroaniline | 50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U | 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U | 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U | 122-66-7 | 1,2-Diphenylhydrazine | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U | 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U | 118-74-1 | Hexachlorobenzene | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U | 87-86-5 | Pentachlorophenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U | 85-01-8 | Phenanthrene | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U | 120-12-7 | Anthracene | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U | 84-74-2 | Di-n-butylphthalate | 10 | U |
| 78-59-1 | Isophorone | 10 | U | 206-44-0 | Fluoranthene | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U | 129-00-0 | Pyrene | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U | 85-68-7 | Butylbenzylphthalate | 10 | U |
| 65-0 | Benzoic acid | 50 | U | 91-94-1 | 3,3'-Dichlorobenzidine | 20 | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U | 56-55-3 | Benzo(a)anthracene | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U | 218-01-9 | Chrysene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U | 117-84-0 | Di-n-octylphthalate | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U | 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U | 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U | 50-32-8 | Benzo(a)pyrene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U | 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U | 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10 | U | 191-24-2 | Benzo(g,h,i)perylene | 10 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U | 109-06-8 | 2-Picoline | 50 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U | 66-27-3 | Methyl methanesulfonate | 10 | U |
| 131-11-3 | Dimethylphthalate | 10 | U | 62-50-0 | Ethyl methanesulfonate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U | 98-86-2 | Acetophenone | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U | 100-75-4 | N-Nitrosopiperidine | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U | 122-09-8 | Phenyl-tert-butylamine | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U | 87-65-0 | 2,6-Dichlorophenol | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U | 924-16-3 | N-Nitroso-di-n-butylamine | 10 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U | | | | |

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.

Form I



MTP

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# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/23/91 |
| Lab Sample ID: | W12231B1 | Sample Matrix: | WATER | Date Analyzed: | 12/27/91 |
| Client Sample ID: | QC BLANK W 2 | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | ug/L |
|---|---|---|---|---|---|
| 120-83-2 | 2,4-Dichlorophenol . . . . | 10 | U | | |
| 92-87-5 | Benzidine . . . . . | 50 | U | | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 50 | U | | |
| 608-93-5 | Pentachlorobenzene . . . . | 50 | U | | |
| 134-32-7 | 1-Naphthylamine . . . . . | 50 | U | | |
| 91-59-8 | 2-Naphthylamine . . . . . | 50 | U | | |
| 90-13-1 | 1-Chloronaphthalene . . . | 10 | U | | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 10 | U | | |
| 122-39-4 | Diphenylamine . . . . . | 10 | U | | |
| 62-44-2 | Phenacetin . . . . . | 10 | U | | |
| 92-67-1 | 4-Aminobiphenyl . . . . . | 50 | U | | |
| 82-68-8 | Pentachloronitrobenzene . | 50 | U | | |
| 23950-58-5 | Pronamide . . . . . | 10 | U | | |
| 60-11-7 | p-Dimethylaminoazobenzene | 10 | U | | |
| 57-97-6 | 7,12-Dimethylbenz(a)Anthrac | 10 | U | | |
| 56-49-5 | 3-Methylcholanthrene . . . | 10 | U | | |
| | --- | | | | |
| | --- | | | | |
| | Nitrobenzene-d5 - SS . . . | 81 | | | |
| | 2-Fluorobiphenyl - SS . . | 70 | | | |
| | Terphenyl-d14 - SS . . . . | 94 | | | |
| | Phenol-d5 - SS . . . . . | 21 | | | |
| | 2-Fluorophenol - SS . . . | 46 | | | |
| | 2,4,6-Tribromophenol - SS | 77 | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I



CH2M HILL Quality Analytical Laboratories 2567 Fairlane Drive, P.O. Box 230548, Montgomery, Alabama 36116 205 271 1444

BARR ENGINEERING CO.
7803 ENROY ROAD
MINNEAPOLIS, MN 55439

Edata

PROJECT NUMBER No 00388
13/4/91-004551011

NO:

PROJECT MANAGER: Larry Dale

PROJECT CONTACT: Mary Mackey

LABORATORY: CH2M Hill Montgomery AL.

REMARKS/ ANALYSIS REQUIRED:

CONTAINER TYPE AND NUMBER

| SAMPLE IDENTIFICATION | COLLECTION DATE | COLLECTION TIME | GRAB | COMP. | BLANK | VOLATILE ORGANIC MWWS | SEMIVOLATILE ORGANIC | FILTERED METALS | UNFILTERED METALS | GENERAL | CYANIDE | NUTRIENTS | OIL AND GREASE | TOC | SULFIDE | DIOXIN | TOTAL NO. OF CONTAINERS | REMARKS/ ANALYSIS REQUIRED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #1 | 12/12/91 | 6:00pm | X | | | X | | | | | | | | | | | | Call Mary Mackey |
| #2 | 12/12/91 | 11:00pm | X | | | X | | | | | | | | | | | | for analytical |
| #3 | 12/13/91 | 4:00am | X | | | X | | For Composite Sample | | | | | | | | 001 | | parameters. |
| #4 | 12/13/91 | 9:00am | X | | | X | | | | | | | | | | | | |
| #5 | 12/13/91 | 1:30pm | X | | | X | | | | | | | | | | | | *24 Hr turnaround. |
| Field Blank | 12/13/91 | | | | | ✓ | | | | | | | | | | 002 | | |
| #2 Effluent | 12/13/91 | | | X | | | X | | | | | | | | | 003 | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | *Make best effort. |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

FOR LAB USE ONLY
LAB # 20457
PROJ # 13/4/91-004551011
ACK 12/13/91
HAZ WASTE/RESA Y
LEVEL 2
COC yes
ICE yes
CONTRED yes
TEMP 4C
CUST SEAL no
PH <2
SAMPLE COND water

| SAMPLED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY LAB: | DATE | TIME |
|---|---|---|---|---|---|---|
| Thomas D Mattson | Thomas D Mattson | 12/13/91 | | | | |
| RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY LAB: | DATE | TIME |
| RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY LAB: | DATE 12-13-91 | TIME 0930 |

REMARKS:

SAMPLES SHIPPED VIA
☐ AIR FREIGHT ☒ FED. EXP. ☐ SAMPLER
☐ OTHER

AIR BILL NUMBER:

DISTRIBUTION: WHITE-ORIGINAL ACCOMPANIES SHIPMENT TO LAB, RETURNS TO BARR WITH RESULTS; YELLOW-LAB COPY; PINK-LAB COORDINATOR; GOLD-FIELD COPY

LIMS NWS 12/14/91

000017

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0 7 92

January 6, 1992

LMG27317.XY

Ms. Mary Mackey
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, Minnesota 55437-1026

RE: Analytical Data for LMG Laboratory No. 20410

Dear Ms. Mackey:

On December 11, 1991, the CH2M HILL Montgomery Laboratory received three samples with a request for analysis of selected organic parameters.

The analytical results and associated quality control data are enclosed. Any unusual difficulties encountered during the analyses of these samples are discussed in the case narratives.

If you should have any questions concerning the data, please inquire.

The CH2M HILL policy is to store samples for up to 30 days after reporting. If you desire, our laboratory will maintain your samples for a longer period at a cost of $5.00 per sample per month. Samples determined to be hazardous can either be returned to you or disposed of at a cost of $25.00 per sample.

Sincerely,

Wanda L. Hall

Wanda L. Hall
Data Package Supervisor

Enclosures

cc: Mr. Larry Dalen

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# ANALYTICAL METHODS

## Organic Analysis

Priority Pollutants: Water, soil and waste sample are analyzed in accordance with procedures described in Methods 608, 624, and 625, EPA-600/4-82-057 (1982); Methods 8080, 8240, and 8270, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition; and methods outlined in the USEPA Contract Laboratory Program Statement of Work for Organics Analysis, February, 1988.

Volatile Analysis (Safe Drinking Water Act): Water samples are analyzed in accordance with procedures described in Method 524.2, Federal Register (50 FR 46902), November 13, 1985.

Chlorinated Phenoxyacid Herbicides: Samples are analyzed in accordance with procedures described in Method 8150, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition.

Organophosphorous Pesticides: Samples are analyzed in accordance with procedures described in Methods 614 and 622, EPA-600/4-79-019 (1979) and in Method 8140, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition.

Phenolic Acid Analysis by GC: Samples are analyzed in accordance with procedures described in Method 604, Federal Register, 40 CFR, Part 136 (July 1, 1987) and in Method 8040, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition.

Polynuclear Aromatic Hydrocarbons (GC analysis): Samples are analyzed in accordance with procedures described in Method 610, Federal Register, 40 CFR, Part 136 (July 1, 1987) and in Method 8100, Test Methods for Evaluating Solid Waste, 1986, SW-846, Third Edition.

Ethylene Dibromide: Water samples are analyzed in accordance with procedures described in Method 504, Federal Register, (50 FR 46902), November 13, 1985.

Trihalomethanes: Water samples are analyzed in accordance with procedures described in Method 501.2, Federal Register, Vol. 44, No. 231, Part II, November 29, 1979.



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# EPA - DEFINED QUALIFIERS

## ORGANICS

Definitions for the EPA-defined qualifiers:

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the quantitation limit for that compound. The detection limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J -- Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound below the stated quantitation limit. The "J" qualifier is not used with pesticide results.

C -- This flag applies to pesticide results only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B -- This flag is used when the analyte is found in the associated blank as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E -- This flag applies to GC/MS only. The "E" qualifier indicates a compound may be above or below the linear range of the instrument. If the particular compound level is deemed above the linear calibration range, then the sample should be reanalyzed at an appropriate dilution. Therefore, the "E" qualified amount is an estimated concentration. The results for the dilution will be reported on a separate Form I and will be flagged with a "D" if the dilution brings the concentration within proper calibration.

D -- This flag identifies compounds which have been run at a dilution to bring the concentration of that compound within the linear range of the instrument. "D" qualifiers are only used for samples that have been run initially with results above acceptable ranges. For secondary dilutions the "DL" suffix is appended to the sample number on the Form I.

A -- Indicates the Tentatively Identified Compound (TIC) is a suspected aldol-condensation product.

X -- Indicates the compound concentration has been manually modified or the EPA qualifier has been manually modified or added.

JX -- The compound was detected and quantitated below the Contract Required Quantitation Limit.



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## CLIENT SAMPLE ID QUALIFIERS

### LEVEL 1

The qualifiers that GC/MS and GC use with the client sample ID are defined below:

**DL** -- Dilution Run

**R** -- Rerun (may be followed by a digit to indicate multiple reruns)

**RD** -- Diluted Rerun

**RX** -- Re-extraction Analysis

**MS** -- Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

**MSD** -- Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

**QC_BLANK** -- Method Blank (may be followed by a "W" for waters, "S" for soils run at a low level, or "SM" for soils run at a medium level -- these letters may be followed by a digit to indicate multiple blanks of that type; if there are no letters, the digit indicates multiple blanks).

These qualifiers allow GC/MS and GC to have unique client sample ID's so that the client can get more accurate information from the data reported.



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**TABLE 1**

**SAMPLE CROSS-REFERENCE SUMMARY**

**CH2M HILL Laboratory No. 20410**

| CH2M HILL Sample No. | Sample Description | | | | |
|---|---|---|---|---|---|
| 20410001 | #1,2,3,4,5 | 12/10/91 | GRAB | 13/49-004JSL01 | PO#00244 |
| 20410002 | FIELD BLANK | 12/10/91 | | 13/49-004JSL01 | PO#00244 |
| 20410003 | #1A | 12/10/91 | COMP | 13/49-004JSL01 | PO#00244 |



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# CASE NARRATIVE FOR VOLATILE MASS SPECTROMETRY SAMPLES

LABORATORY: CH2M HILL LABORATORIES CLIENT: BARR ENGINEERING

CASE NO. : N/A CONTRACT NO.: N/A

LAB NO. : 20410 SDG NO.: N/A

---

I. RECEIPT

A. DATE: December 11, 1991

B. SAMPLE INFORMATION

| LAB ID | CLIENT ID | SAMPLE MATRIX | DATE SAMPLED | EXTRACTION DATE | ANALYSIS DATE |
|---|---|---|---|---|---|
| 20410001 | _1_2_3_4_5 | WATER | 12/10/91 | NA | 12/16/91 |
| 20410001DL | _1_2_3_4_5DL | WATER | 12/10/91 | NA | 12/17/91 |
| 20410002 | FIELD_BLANK | WATER | 12/10/91 | NA | 12/16/91 |
| X12161B2 | QC_BLANK_W | WATER | NA | NA | 12/16/91 |

C. Documentation
Exceptions : Tentatively Identified Compounds were not requested as part of this analysis. Therefore, these forms will not be included.



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II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, extraction time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding times: All holding times were met.

B. Analytical Exceptions : Unless otherwise indicated, all water volatile samples were analyzed using the HCl-preserved vial.

The original analysis of sample 20410001 (_1_2_3_4_5) showed target compounds above the calibration range. The sample was diluted and reanalyzed. The results of both analyses have been reported. No other exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : All associated method blanks met acceptable QC criteria.

B. Surrogate Recoveries : All samples met acceptable QC limits.

C. Matrix Spike Results : The MS/MSD results reported with this contract are results of in-house QC. The native sample used for the matrix spike and matrix spike duplicate was not a client specific sample.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed*p965XaboRelease of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Herb Kelly 1/6/92

Herb Kelly Date
Manager, Organic Division



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# ORGANICS ANALYSIS DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | |
| Lab Sample ID: | 20410001 | Sample Matrix: | WATER | Date Analyzed: | 12/16/91 |
| Client Sample ID: | 1 2 3 4 5 | Percent Moisture: | | Dilution Factor: | 1.0 |

## VOLATILE (8240) COMPOUNDS

| CAS Number | | ug/L | |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene chloride | 8 | B |
| 67-64-1 | Acetone | 22 | B |
| 75-15-0 | Carbon disulfide | 5 | U |
| 75-69-4 | Trichlorofluoromethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U |
| 67-66-3 | Chloroform | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 56-23-5 | Carbon tetrachloride | 5 | U |
| 108-05-4 | Vinyl acetate | 10 | U |
| 7 27-4 | Bromodichloromethane | 5 | U |
| . 7-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 71-43-2 | Benzene | 270 | E |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U |
| 110-75-8 | 2-Chloroethylvinylether | 10 | U |

| CAS Number | | ug/L | |
|---|---|---|---|
| 75-25-2 | Bromoform | 5 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 108-88-3 | Toluene | 99 | |
| 108-90-7 | Chlorobenzene | 5 | U |
| 100-41-4 | Ethylbenzene | 42 | |
| 100-42-5 | Styrene | 11 | |
| 1330-20-7 | Xylenes (total) | 60 | |
| 541-73-1 | 1,3-Dichlorobenzene | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5 | U |
| 107-02-8 | Acrolein | 100 | U |
| 74-88-4 | Iodomethane | 10 | U |
| 107-13-1 | Acrylonitrile | 100 | BU |
| 74-95-3 | Dibromomethane | 5 | U |
| 97-63-2 | Ethyl Methacrylate | 5 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 5 | U |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | 5 | U |
| | --- | | |
| | Toluene-d8 - SS | 110 | |
| | 1,4-Bromofluorobenzene - SS | 115 | |
| | 1,2-Dichloroethane-d4 - SS | 107 | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.
E - Compound concentration exceeded calibration range.

Form I



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# ORGANICS ANALYSIS DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | |
| Lab Sample ID: | 20410001DL | Sample Matrix: | WATER | Date Analyzed: | 12/17/91 |
| Client Sample ID: | 1 2 3 4 5DL | Percent Moisture: | | Dilution Factor: | 2.0 |

## VOLATILE (8240) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 20 | U | 75-25-2 | Bromoform | 10 | U |
| 74-83-9 | Bromomethane | 20 | U | 591-78-6 | 2-Hexanone | 20 | U |
| 75-01-4 | Vinyl chloride | 20 | U | 108-10-1 | 4-Methyl-2-pentanone | 20 | U |
| 75-00-3 | Chloroethane | 20 | U | 127-18-4 | Tetrachloroethene | 10 | U |
| 75-09-2 | Methylene chloride | 10 | B | 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 67-64-1 | Acetone | 26 | B | 108-88-3 | Toluene | 100 | |
| 75-15-0 | Carbon disulfide | 10 | U | 108-90-7 | Chlorobenzene | 10 | U |
| 75-69-4 | Trichlorofluoromethane | 10 | U | 100-41-4 | Ethylbenzene | 43 | |
| 75-35-4 | 1,1-Dichloroethene | 10 | U | 100-42-5 | Styrene | 11 | |
| 75-34-3 | 1,1-Dichloroethane | 10 | U | 1330-20-7 | Xylenes (total) | 60 | |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U | 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 67-66-3 | Chloroform | 10 | U | 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U | 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 78-93-3 | 2-Butanone | 20 | U | 107-02-8 | Acrolein | 200 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U | 74-88-4 | Iodomethane | 20 | U |
| 56-23-5 | Carbon tetrachloride | 10 | U | 107-13-1 | Acrylonitrile | 200 | BU |
| 108-05-4 | Vinyl acetate | 20 | U | 74-95-3 | Dibromomethane | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U | 97-63-2 | Ethyl Methacrylate | 10 | U |
| 7 7-5 | 1,2-Dichloropropane | 10 | U | 96-18-4 | 1,2,3-Trichloropropane | 10 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U | 110-57-6 | Trans-1,4-Dichloro-2-Butene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U | | --- | | |
| 124-48-1 | Dibromochloromethane | 10 | U | | Toluene-d8 - SS | 104 | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U | | 1,4-Bromofluorobenzene - SS | 115 | |
| 71-43-2 | Benzene | 270 | | | 1,2-Dichloroethane-d4 - SS | 111 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U | | | | |
| 110-75-8 | 2-Chloroethylvinylether | 20 | U | | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000004

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# ORGANICS ANALYSIS DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | |
| Lab Sample ID: | 20410002 | Sample Matrix: | WATER | Date Analyzed: | 12/16/91 |
| Client Sample ID: | FIELD BLANK | Percent Moisture: | | Dilution Factor: | 1.0 |

## VOLATILE (8240) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U | 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U | 591-78-6 | 2-Hexanone | 10 | U |
| 75-01-4 | Vinyl chloride | 10 | U | 108-10-1 | 4-Methyl-2-pentanone | 10 | U |
| 75-00-3 | Chloroethane | 10 | U | 127-18-4 | Tetrachloroethene | 5 | U |
| 75-09-2 | Methylene chloride | 10 | B | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 67-64-1 | Acetone | 8 | BJ | 108-88-3 | Toluene | 5 | U |
| 75-15-0 | Carbon disulfide | 5 | U | 108-90-7 | Chlorobenzene | 5 | U |
| 75-69-4 | Trichlorofluoromethane | 5 | U | 100-41-4 | Ethylbenzene | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U | 100-42-5 | Styrene | 5 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U | 1330-20-7 | Xylenes (total) | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U | 541-73-1 | 1,3-Dichlorobenzene | 5 | U |
| 67-66-3 | Chloroform | 5 | U | 106-46-7 | 1,4-Dichlorobenzene | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U | 95-50-1 | 1,2-Dichlorobenzene | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U | 107-02-8 | Acrolein | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U | 74-88-4 | Iodomethane | 10 | U |
| 56-23-5 | Carbon tetrachloride | 5 | U | 107-13-1 | Acrylonitrile | 100 | BU |
| 108-05-4 | Vinyl acetate | 10 | U | 74-95-3 | Dibromomethane | 5 | U |
| 7[illegible]27-4 | Bromodichloromethane | 5 | U | 97-63-2 | Ethyl Methacrylate | 5 | U |
| [illegible]7-5 | 1,2-Dichloropropane | 5 | U | 96-18-4 | 1,2,3-Trichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U | 110-57-6 | Trans-1,4-Dichloro-2-Butene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U | | --- | | |
| 124-48-1 | Dibromochloromethane | 5 | U | | Toluene-d8 - SS | 110 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U | | 1,4-Bromofluorobenzene - SS | 113 | |
| 71-43-2 | Benzene | 5 | U | | 1,2-Dichloroethane-d4 - SS | 110 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U | | | | |
| 110-75-8 | 2-Chloroethylvinylether | 10 | U | | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I



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# ORGANICS ANALYSIS DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | |
| Lab Sample ID: | X12161B2 | Sample Matrix: | WATER | Date Analyzed: | 12/16/91 |
| Client Sample ID: | QC BLANK W | Percent Moisture: | | Dilution Factor: | 1.0 |

## VOLATILE (8240) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U | 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 10 | U | 591-78-6 | 2-Hexanone | 10 | U |
| 75-01-4 | Vinyl chloride | 10 | U | 108-10-1 | 4-Methyl-2-pentanone | 10 | U |
| 75-00-3 | Chloroethane | 10 | U | 127-18-4 | Tetrachloroethene | 5 | U |
| 75-09-2 | Methylene chloride | 4 | BJ | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 67-64-1 | Acetone | 5 | BJ | 108-88-3 | Toluene | 5 | U |
| 75-15-0 | Carbon disulfide | 5 | U | 108-90-7 | Chlorobenzene | 5 | U |
| 75-69-4 | Trichlorofluoromethane | 5 | U | 100-41-4 | Ethylbenzene | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U | 100-42-5 | Styrene | 5 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U | 1330-20-7 | Xylenes (total) | 5 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | U | 541-73-1 | 1,3-Dichlorobenzene | 5 | U |
| 67-66-3 | Chloroform | 5 | U | 106-46-7 | 1,4-Dichlorobenzene | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U | 95-50-1 | 1,2-Dichlorobenzene | 5 | U |
| 78-93-3 | 2-Butanone | 10 | U | 107-02-8 | Acrolein | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U | 74-88-4 | Iodomethane | 10 | U |
| 56-23-5 | Carbon tetrachloride | 5 | U | 107-13-1 | Acrylonitrile | 11 | BJ |
| 108-05-4 | Vinyl acetate | 10 | U | 74-95-3 | Dibromomethane | 5 | U |
| 7[illegible]7-4 | Bromodichloromethane | 5 | U | 97-63-2 | Ethyl Methacrylate | 5 | U |
| 7[illegible]7-5 | 1,2-Dichloropropane | 5 | U | 96-18-4 | 1,2,3-Trichloropropane | 5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U | 110-57-6 | Trans-1,4-Dichloro-2-Butene | 5 | U |
| 79-01-6 | Trichloroethene | 5 | U | | --- | | |
| 124-48-1 | Dibromochloromethane | 5 | U | | Toluene-d8 - SS | 102 | |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U | | 1,4-Bromofluorobenzene - SS | 100 | |
| 71-43-2 | Benzene | 5 | U | | 1,2-Dichloroethane-d4 - SS | 102 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U | | | | |
| 110-75-8 | 2-Chloroethylvinylether | 10 | U | | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I

000006

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# WATER MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CASE NO _____ LABORATORY CH2M HILL/MGM CONTRACT _____
SAS NO _____ REPORTED 12/20/91 14:00 CUSTOMER _____

FILE NAME C1VO019519 SAMPLE ID _____ LEVEL LOW
SPIKE CMVO019522 LAB SAMP ID MS/MSD MATRIX WATER
DUP SPIKE CMVO019523 ANALYZED 12/15/91 20:03 UNITS ug/L

| COMPOUND | TYPES | CONC SAMPLE | CONC SPIKED | CONC MS | % REC | CONC MSD | % REC | RPD |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | V | | 50.00 | 46.80 | 94 | 40.50 | 81 | 14 |
| Trichloroethene | V | | 50.00 | 49.50 | 99 | 48.20 | 96 | 3 |
| Benzene | V | | 50.00 | 47.10 | 94 | 48.40 | 97 | -3 |
| Toluene | V | | 50.00 | 46.60 | 93 | 39.80 | 80 | 16 |
| Chlorobenzene | V | | 50.00 | 45.40 | 91 | 46.70 | 93 | -3 |

Notes and summary data for this report.
% REC = ( MS - SAMPLE ) / SPIKE * 100
RPD = ( MS - MSD ) / ( ( MS + MSD ) / 2 - SAMPLE ) * 100
Underlined values are outside of QC limits.



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# CASE NARRATIVE FOR SEMIVOLATILE MASS SPECTROMETRY SAMPLES

LABORATORY: CH2M HILL LABORATORIES CLIENT: BARR ENGINEERING

CASE NO. : N/A CONTRACT NO.: N/A

LAB NO. : 20410 SDG NO.: N/A

---

I. RECEIPT

A. DATE: December 11, 1991

B. SAMPLE INFORMATION

| LAB ID | CLIENT ID | SAMPLE MATRIX | DATE SAMPLED | EXTRACTION DATE | ANALYSIS DATE |
|---|---|---|---|---|---|
| 20410003 | _1A | WATER | 12/10/91 | 12/11/91 | 12/18/91 |
| C12111B1 | QC_BLANK_W | WATER | NA | 12/11/91 | 12/14/91 |

C. Documentation
Exceptions : Tentatively Identified Compounds were not requested as part of this analysis. Therefore, these forms will not be included.



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II. EXTRACTION

A. Holding Times: All holding times were met.

B. Extraction Exceptions : No exceptions were encountered.

III. ANALYSIS

A. Holding times: All holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : All associated method blanks met acceptable QC criteria.

B. Surrogate Recoveries : All samples met acceptable QC limits.

C. Matrix Spike Results : The MS/MSD results reported with this contract are results of in-house QC. The native sample used for the matrix spike and matrix spike duplicate was not a client specific sample.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Herb Kelly 1/6/92
Herb Kelly Date
Manager, Organic Division



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# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/11/9. |
| Lab Sample ID: | 20410003 | Sample Matrix: | WATER | Date Analyzed: | 12/18/91 |
| Client Sample ID: | 1A | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 62-75-9 | N-Nitrosodimethylamine . . | 10 | U | 132-64-9 | Dibenzofuran . . . . . | 10 | U |
| 108-95-2 | Phenol . . . . . | 18 | | 121-14-2 | 2,4-Dinitrotoluene . . . . | 10 | U |
| 62-53-3 | Aniline . . . . . | 10 | U | 84-66-2 | Diethylphthalate . . . . . | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether . | 10 | U | 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 95-57-8 | 2-Chlorophenol . . . . . | 10 | U | 86-73-7 | Fluorene . . . . . | 4 | J |
| 541-73-1 | 1,3-Dichlorobenzene . . . | 10 | U | 100-01-6 | 4-Nitroaniline . . . . . | 50 | U |
| 106-46-7 | 1,4-Dichlorobenzene . . . | 10 | U | 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 100-51-6 | Benzyl Alcohol . . . . . | 10 | U | 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene . . . | 10 | U | 122-66-7 | 1,2-Diphenylhydrazine . . | 10 | U |
| 95-48-7 | 2-Methylphenol . . . . . | 9 | J | 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U | 118-74-1 | Hexachlorobenzene . . . . | 10 | U |
| 106-44-5 | 4-Methylphenol . . . . . | 17 | | 87-86-5 | Pentachlorophenol . . . . | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U | 85-01-8 | Phenanthrene . . . . . | 4 | J |
| 67-72-1 | Hexachloroethane . . . . . | 10 | U | 120-12-7 | Anthracene . . . . . | 10 | U |
| 98-95-3 | Nitrobenzene . . . . . | 10 | U | 84-74-2 | Di-n-butylphthalate . . . | 10 | BU |
| 78-59-1 | Isophorone . . . . . | 10 | U | 206-44-0 | Fluoranthene . . . . . | 10 | U |
| 88-75-5 | 2-Nitrophenol . . . . . | 10 | U | 129-00-0 | Pyrene . . . . . | 10 | U |
| 1[illegible] 67-9 | 2,4-Dimethylphenol . . . . | 15 | | 85-68-7 | Butylbenzylphthalate . . . | 10 | [illegible] |
| 6[illegible]5-0 | Benzoic acid . . . . . | 50 | U | 91-94-1 | 3,3'-Dichlorobenzidine . . | 20 | |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U | 56-55-3 | Benzo(a)anthracene . . . . | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene . . | 10 | U | 218-01-9 | Chrysene . . . . . | 10 | U |
| 91-20-3 | Naphthalene . . . . . | 190 | | 117-81-7 | bis(2-Ethylhexyl)phthalate | 10 | U |
| 106-47-8 | 4-Chloroaniline . . . . . | 10 | U | 117-84-0 | Di-n-octylphthalate . . . | 10 | U |
| 87-68-3 | Hexachlorobutadiene . . . | 10 | U | 205-99-2 | Benzo(b)fluoranthene . . . | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol . | 10 | U | 207-08-9 | Benzo(k)fluoranthene . . . | 10 | U |
| 91-57-6 | 2-Methylnaphthalene . . . | 29 | | 50-32-8 | Benzo(a)pyrene . . . . . | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U | 193-39-5 | Indeno(1,2,3-cd)pyrene . . | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol . . | 10 | U | 53-70-3 | Dibenz(a,h)anthracene . . | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol . . | 10 | U | 191-24-2 | Benzo(g,h,i)perylene . . . | 10 | U |
| 91-58-7 | 2-Chloronaphthalene . . . | 10 | U | 109-06-8 | 2-Picoline . . . . . | 50 | U |
| 88-74-4 | 2-Nitroaniline . . . . . | 50 | U | 66-27-3 | Methyl methanesulfonate . | 10 | U |
| 131-11-3 | Dimethylphthalate . . . . | 10 | U | 62-50-0 | Ethyl methanesulfonate . . | 10 | U |
| 208-96-8 | Acenaphthylene . . . . . | 9 | J | 98-86-2 | Acetophenone . . . . . | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene . . . . | 10 | U | 100-75-4 | N-Nitrosopiperidine . . . | 10 | U |
| 99-09-2 | 3-Nitroaniline . . . . . | 50 | U | 122-09-8 | Phenyl-tert-butylamine . . | 50 | U |
| 83-32-9 | Acenaphthene . . . . . | 7 | J | 87-65-0 | 2,6-Dichlorophenol . . . . | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol . . . . | 50 | U | 924-16-3 | N-Nitroso-di-n-butylamine | 10 | U |
| 100-02-7 | 4-Nitrophenol . . . . . | 50 | U | | | | |

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
- Reported value less than quantitation limit.

Form I

000010

Engineers
Planners
CH2M HILL Economists
Scientists

# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/11/91 |
| Lab Sample ID: | 20410003 | Sample Matrix: | WATER | Date Analyzed: | 12/18/91 |
| Client Sample ID: | 1A | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | ug/L |
|---|---|---|---|---|---|
| 120-83-2 | 2,4-Dichlorophenol . . . . | 10 | U | | |
| 92-87-5 | Benzidine . . . . . | 50 | U | | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 50 | U | | |
| 608-93-5 | Pentachlorobenzene . . . . | 50 | U | | |
| 134-32-7 | 1-Naphthylamine . . . . . | 50 | U | | |
| 91-59-8 | 2-Naphthylamine . . . . . | 50 | U | | |
| 90-13-1 | 1-Chloronaphthalene . . . | 10 | U | | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 10 | U | | |
| 122-39-4 | Diphenylamine . . . . . | 10 | U | | |
| 62-44-2 | Phenacetin . . . . . | 10 | U | | |
| 92-67-1 | 4-Aminobiphenyl . . . . . | 50 | U | | |
| 82-68-8 | Pentachloronitrobenzene . | 50 | U | | |
| 23950-58-5 | Pronamide . . . . . | 10 | U | | |
| 60-11-7 | p-Dimethylaminoazobenzene | 10 | U | | |
| 57-97-6 | 7,12-Dimethylbenz(a)Anthrac | 10 | U | | |
| 56-49-5 | 3-Methylcholanthrene . . . | 10 | U | | |
| | --- | | | | |
| | --- | | | | |
| | Nitrobenzene-d5 - SS . . . | 92 | | | |
| | 2-Fluorobiphenyl - SS . . | 85 | | | |
| | Terphenyl-d14 - SS . . . . | 94 | | | |
| | Phenol-d5 - SS . . . . . | 70 | | | |
| | 2-Fluorophenol - SS . . . | 68 | | | |
| | 2,4,6-Tribromophenol - SS | 78 | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I



CH2M HILL
Quality Analytical Laboratories
2567 Fairlane Drive, P.O. Box 230548, Montgomery, Alabama 36116
205 271 1444

CH2M HILL Engineers Planners Economists Scientists

# ORGANICS ANALYSIS DATA SHEET



| | | | | | |
|---|---|---|---|---|---|
| Laboratory Name: | CH2M HILL/MGM | Concentration: | LOW | Date Extracted: | 12/11/91 |
| Lab Sample ID: | C12111B1 | Sample Matrix: | WATER | Date Analyzed: | 12/14/91 |
| Client Sample ID: | QC BLANK W | Percent Moisture: | | Dilution Factor: | 1.0 |

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | | ug/L | |
|---|---|---|---|---|---|---|---|
| 62-75-9 | N-Nitrosodimethylamine | 10 | U | 132-64-9 | Dibenzofuran | 10 | U |
| 108-95-2 | Phenol | 10 | U | 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 62-53-3 | Aniline | 10 | U | 84-66-2 | Diethylphthalate | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U | 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U | 86-73-7 | Fluorene | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U | 100-01-6 | 4-Nitroaniline | 50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U | 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 100-51-6 | Benzyl Alcohol | 10 | U | 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U | 122-66-7 | 1,2-Diphenylhydrazine | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U | 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U | 118-74-1 | Hexachlorobenzene | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U | 87-86-5 | Pentachlorophenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U | 85-01-8 | Phenanthrene | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U | 120-12-7 | Anthracene | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U | 84-74-2 | Di-n-butylphthalate | 3 | BJ |
| 78-59-1 | Isophorone | 10 | U | 206-44-0 | Fluoranthene | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U | 129-00-0 | Pyrene | 10 | U |
| 1[illegible] 67-9 | 2,4-Dimethylphenol | 10 | U | 85-68-7 | Butylbenzylphthalate | 10 | [illegible] |
| 6[illegible]5-0 | Benzoic acid | 50 | U | 91-94-1 | 3,3'-Dichlorobenzidine | 20 | [illegible] |
| 111-91-1 | bis(2-Chloroethoxy)Methane | 10 | U | 56-55-3 | Benzo(a)anthracene | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U | 218-01-9 | Chrysene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U | 117-84-0 | Di-n-octylphthalate | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U | 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U | 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U | 50-32-8 | Benzo(a)pyrene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U | 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U | 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10 | U | 191-24-2 | Benzo(g,h,i)perylene | 10 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U | 109-06-8 | 2-Picoline | 50 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U | 66-27-3 | Methyl methanesulfonate | 10 | U |
| 131-11-3 | Dimethylphthalate | 10 | U | 62-50-0 | Ethyl methanesulfonate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U | 98-86-2 | Acetophenone | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U | 100-75-4 | N-Nitrosopiperidine | 10 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U | 122-09-8 | Phenyl-tert-butylamine | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U | 87-65-0 | 2,6-Dichlorophenol | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U | 924-16-3 | N-Nitroso-di-n-butylamine | 10 | U |
| [illegible]00-02-7 | 4-Nitrophenol | 50 | U | | | | |

(1) - Cannot be separated from diphenylamine.
U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
- Reported value less than quantitation limit.

Form I



CH2M HILL Quality Analytical Laboratories 2567 Fairlane Drive, P.O. Box 230548, Montgomery, Alabama 36116 205 271 1444

CH2M HILL Engineers Planners Economists Scientists

# ORGANICS ANALYSIS DATA SHEET



Laboratory Name: CH2M HILL/MGM
Lab Sample ID: C12111B1
Client Sample ID: QC BLANK W

Concentration: LOW
Sample Matrix: WATER
Percent Moisture:

Date Extracted: 12/11/91
Date Analyzed: 12/14/91
Dilution Factor: 1.0

## SEMIVOLATILE (8270) COMPOUNDS

| CAS Number | | ug/L | | CAS Number | ug/L |
|---|---|---|---|---|---|
| 120-83-2 | 2,4-Dichlorophenol . . . . | 10 | U | | |
| 92-87-5 | Benzidine . . . . . | 50 | U | | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 50 | U | | |
| 608-93-5 | Pentachlorobenzene . . . . | 50 | U | | |
| 134-32-7 | 1-Naphthylamine . . . . . | 50 | U | | |
| 91-59-8 | 2-Naphthylamine . . . . . | 50 | U | | |
| 90-13-1 | 1-Chloronaphthalene . . . | 10 | U | | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 10 | U | | |
| 122-39-4 | Diphenylamine . . . . . | 10 | U | | |
| 62-44-2 | Phenacetin . . . . . | 10 | U | | |
| 92-67-1 | 4-Aminobiphenyl . . . . . | 50 | U | | |
| 82-68-8 | Pentachloronitrobenzene . | 50 | U | | |
| 23950-58-5 | Pronamide . . . . . | 10 | U | | |
| 60-11-7 | p-Dimethylaminoazobenzene | 10 | U | | |
| 57-97-6 | 7,12-Dimethylbenz(a)Anthrac | 10 | U | | |
| 56-49-5 | 3-Methylcholanthrene . . . | 10 | U | | |
| | --- | | | | |
| | --- | | | | |
| | Nitrobenzene-d5 - SS . . . | 110 | | | |
| | 2-Fluorobiphenyl - SS . . | 100 | | | |
| | Terphenyl-d14 - SS . . . . | 117 | | | |
| | Phenol-d5 - SS . . . . . | 93 | | | |
| | 2-Fluorophenol - SS . . . | 89 | | | |
| | 2,4,6-Tribromophenol - SS | 103 | | | |

U - Compound analyzed for but not detected.
B - Compound was detected in QC blank.
J - Reported value less than quantitation limit.
SS - Surrogate Standard reported as percent recovery.

Form I



CH2M HILL
Quality Analytical Laboratories
2567 Fairlane Drive, P.O. Box 230548, Montgomery, Alabama 36116
205 271 1444

CH2M HILL Engineers Planners Economists Scientists



# WATER MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

CASE NO _____ LABORATORY CH2M HILL/MGM CONTRACT _____
SAS NO _____ REPORTED 01/06/92 08:47 CUSTOMER _____

FILE NAME A1BA012262 SAMPLE ID _____ LEVEL LOW
SPIKE DMBA009359 LAB SAMP ID _____ MATRIX WATER
DUP SPIKE DMBA009360 ANALYZED 12/29/91 00:48 UNITS ug/L

| COMPOUND | TYPES | CONC SAMPLE | CONC SPIKED | CONC MS | % REC | CONC MSD | % REC | RPD |
|---|---|---|---|---|---|---|---|---|
| Phenol | A | | 100.00 | 94.80 | 95 | 58.00 | 58 | 48 |
| 2-Chlorophenol | A | | 100.00 | 36.40 | 36 | 54.40 | 54 | -40 |
| 1,4-Dichlorobenzene | B | | 50.00 | 29.30 | 59 | 27.70 | 55 | 6 |
| N-Nitroso-di-n-propylamine | B | | 50.00 | 32.20 | 64 | 36.30 | 73 | -12 |
| 1,2,4-Trichlorobenzene | B | | 50.00 | 29.80 | 60 | 30.80 | 62 | -3 |
| 4-Chloro-3-methylphenol | A | | 100.00 | 52.30 | 52 | 55.80 | 56 | -6 |
| Acenaphthene | B | | 50.00 | 38.30 | 77 | 42.40 | 85 | -10 |
| 4-Nitrophenol | A | | 100.00 | 53.80 | 54 | 55.80 | 56 | -4 |
| 2,4-Dinitrotoluene | B | | 50.00 | 33.80 | 68 | 38.10 | 76 | -12 |
| Pentachlorophenol | A | | 100.00 | 56.00 | 56 | 52.30 | 52 | 7 |
| Pyrene | B | | 50.00 | 38.40 | 77 | 39.00 | 78 | -2 |

Notes and summary data for this report.
% REC = ( MS - SAMPLE ) / SPIKE * 100
RPD = ( MS - MSD ) / ( ( MS + MSD ) / 2 - SAMPLE ) * 100
Underlined values are outside of QC limits.

Recovery: Base/Neutrals outside QC limits: 0 of 6
Acids outside QC limits - - - -: 1 of 5

RPD: Base/Neutrals outside QC limits: 0 of 6
Acids outside QC limits - - - -: 1 of 5



CH2M HILL Quality Analytical Laboratories 2567 Fairlane Drive, P.O. Box 230548 Montgomery, Alabama 36116 205 271 1444

BARR ENGINEERING CO.
780 LENROY ROAD
MINNEAPOLIS, MN 55439

Elate 5246 u

PROJECT NUMBER No 00244
13/49-004 JSL01

NO:

| SAMPLE IDENTIFICATION | COLLECTION DATE | COLLECTION TIME | GRAB | COMP. | BLANK | VOLATILE ORGANIC MVWS | SEMIVOLATILE ORGANIC SVWS | FILTERED METALS | UNFILTERED METALS | GENERAL | CYANIDE | NUTRIENTS | OIL AND GREASE | TOC | SULFIDE | DIOXIN | TOTAL NO. OF CONTAINERS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #1 | 12/10/91 | 2:45am | X | | | X | | | | | | | | | | | |
| #2 | 12/10/91 | 3:25am | X | | | X | | | | For Composite Sample | | | | | | | 001 |
| #3 | 12/10/91 | 4:00am | X | | | X | | | | | | | | | | | |
| #4 | 12/10/91 | 4:45am | X | | | X | | | | | | | | | | | |
| #5 | 12/10/91 | 5:30am | X | | | X | | | | | | | | | | | |
| Field Blank | | | | | | X | | | | | | | | | | | 002 |
| #1A | 12/10/91 | | | X | | | X | | | | | | | | | | 003 |

Do Run Field blank for Volatiles per M. Mackey AWS 12/11/91

Larry Dalen

PROJECT CONTACT: Larry Dalen

LABORATORY: CH2M Hill Montgomery Lab

REMARKS/ ANALYSIS REQUIRED: Make best effort on TAT - Client request 24 hr

Call Mary Mackey (612) 832-2600 for analytical Parameters (24 hr turnaround)

FOR LAB USE ONLY
LAB # 20410
PROJ # LMG27317.XY
ACK SH 12/12 VERIFIED MM
HAZWRAP/NEESA Y (N) MM
QC LEVEL 1 2 3
COC Yes ICE Yes
ANA REQ Yes TEMP 4°C
CUST SEAL No PH NA, native
SAMPLE COND Water

| SAMPLED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY LAB: | DATE | TIME |
|---|---|---|---|---|---|---|
| Thomas D Matthew | Thomas D Matthew | 12/11/91 | | | | |
| RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY LAB: | DATE | TIME |
| RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY LAB: AWS Silco | DATE 12/11/91 | TIME 1130 |

REMARKS:

SAMPLES SHIPPED VIA
☐ AIR FREIGHT ☒ FED. EXP. ☐ SAMPLER
☐ OTHER

AIR BILL NUMBER: 56 12/11/91

DISTRIBUTION: WHITE-ORIGINAL ACCOMPANIES SHIPMENT TO LAB, RETURNS TO BARR WITH RESULTS; YELLOW-LAB COPY; PINK-LAB COORDINATOR; GOLD-FIELD COPY

000015

# *Appendix J*

## *Invoices*

| | | | |
|---|---|---|---|
| Che al Waste Management, Inc. | | Customer # | 1-9 09-828 |
| ENRA Division – Midwest | | Invoice # | E92 20 |
| 7250 College Drive | | Page # | 1 of 2 |
| Palos Heights, Il 60463 | | Terms | Net 30 Days |
| Phone (708) 361-7508 | | Date | 26-Feb-92 |

**Payment Due By:** 27-Mar-92

## NORTH SHORE GAS COMPANY

Waukegan Tar Pit
122 South Michigan Avenue
Room 1003
Chicago, Il. 60603

| | |
|---|---|
| Attn: | Mr. Jerry Picha |
| Title: | North Shore Gas Engineer |
| Site Location: | Waukegan, Il. |
| Service Period: | February 1 through February 21, 1992. |

Progress Billing Number 4

| SUMMARY OF SCHEDULES | TOTAL OF THIS INVOICE | TOTAL PROJECT TO DATE |
|---|---|---|
| Schedule A | $78,833.34 | 911,436.53 |
| Plus: 10% Retention Release | $83,260.32 | $0.00 |
| TOTAL AMOUNT | $162,093.66 | $911,436.53 |
| LESS PREVIOUSLY INVOICED | N/A | 749,342.87 |
| NET AMOUNT DUE THIS INVOICE | $162,093.66 | 162,093.66 |

Please return a copy of the summary page with your remittance.

| Activity Description | Current Quantity | Quanitity To Date | Unit | Unit Rate | Current Value | Value To Date |
|---|---|---|---|---|---|---|
| Mobilization / Demobilization | 50% | 100% | Lump Sum | $26,194.00 | $13,097.00 | 26,194.00 |
| On-Site Water Management up to 100,000 gallons | 0 | 100,000 | Per Gallon | $0.25 | $0.00 | 25,000.00 |
| On-Site water Management in excess of 100,000 gallons | 2,566 | 1,187,687 | Per Gallon | $0.21 | $538.86 | 249,414.27 |
| Off Site Water Management | 0 | 0 | Per Gallon | $0.60 | $0.00 | 0.00 |
| Excavation, Solidification, Transportation & Disposal | 259.27 | 2,525.08 | Per Ton | $214.50 | $55,613.42 | 541,629.66 |
| Handling Special Process Waste Materials | 0 | 0 | Per Ton | $80.00 | $0.00 | 0.00 |
| Liner Installation (including liner) | 0 | 28,650 | Per Sq. Ft. | $1.27 | $0.00 | 36,385.50 |
| Berm Design and Installation (2' high by 4' wide) | 610 | 610 | Per Lineal Ft. | $17.71 | $10,803.10 | 10,803.10 |
| Additional activated carbon loading occured on 12/21/91. | 1 | 1 | Per event | $2,640.00 | $2,640.00 | 2,640.00 |
| *** NOTE *** As per the contract ENRAC will reduce its billing to the extent that the proportion of absorbent material exceeds 30%, on a direct cost basis, for transportation and disposal of Tar Materials. | | | | | | |
| Excavation & Solidification of Tar Materials where absorbent material exceeds 30%. | (59.83) | 300.31 | Per Ton | $64.50 | ($3,859.04) | 19,370.00 |
| **As of 1/31/91:** | | | | | | |
| Total tons sent to Adams Center Landfill (See attached log) | 2,825.39 | | | | | |
| Less: Total re-agent added to the tar (See attached log) | (883.02) | | | | | |
| Actual amount of tar sent to the landfill | 1,942.37 | | | | | |
| Multiply the actual tar by 30% | 30% | | | | | |
| Billable volume of re-agent | 582.71 | | | | | |
| Actual amount of tar sent to the landfill | 1,942.37 | | | | | |
| Billable volume of tar and re-agent | 2,525.08 | | | | | |
| Less: previously volumes billed | (2,265.81) | | | | | |
| Current billable volume at $214.50. | 259.27 | | | | | |
| Total tons sent to Adams Center Landfill | 2,825.39 | | | | | |
| Less: Total billable volume at $214.50. | (2,525.08) | | | | | |
| Less: Previously billed volume at $64.50 | (360.14) | | | | | |
| Current billable volume at $64.50. | (59.83) | | | | | |
| $214.50 less direct cost Trans & Disp of $150 = $64.50. | | | | | | |
| | | | | SUB-TOTAL: | $78,833.34 | $911,436.53 |

Chemical Waste Management, Inc.
ENRAC Division – Midwest
7250 College Drive
Palos Heights, Il 60463
Phone (708) 361-7508

| | |
|---|---|
| Customer # | 1-9 09-828 |
| Invoice # | E920203 |
| Page # | 1 of 2 |
| Terms | Net 30 Days |
| Date | 06-Feb-92 |

Payment Due By: 07-Mar-92

## NORTH SHORE GAS COMPANY

Waukegan Tar Pit
122 South Michigan Avenue
Room 1003
Chicago, Il. 60603

Attn: Mr. Jerry Picha
Title: North Shore Gas Engineer
Site Location: Waukegan, Il.
Service Period: January 1 through January 31, 1992.

Progress Billing Number 3

| SUMMARY OF SCHEDULES | TOTAL OF THIS INVOICE | TOTAL PROJECT TO DATE |
|---|---|---|
| Schedule A | $410,742.17 | 832,603.19 |
| Less: 10% Retention | ($41,074.22) | ($83,260.32) |
| TOTAL AMOUNT | $369,667.95 | $749,342.87 |
| LESS PREVIOUSLY INVOICED | N/A | 379,674.92 |
| NET AMOUNT DUE THIS INVOICE | $369,667.95 | 369,667.95 |

CONTRACT # 23817-64175
652-7766.06
2/19/92 JP

APPROVED: P. J. Doyle
P. J. DOYLE
VICE PRESIDENT

Please return a copy of the summary page with your remittance.

| Activity Description | Current Quantity | Quantity To Date | Unit | Unit Rate | Current Value | Value To Date |
|---|---|---|---|---|---|---|
| Mobilization / Demobilization | 0% | 50% | Lump Sum | $26,194.00 | $0.00 | 13,097.00 |
| On-Site Water Management up to 100,000 gallons | 0 | 100,000 | Per Gallon | $0.25 | $0.00 | 25,000.00 |
| On-Site water Management in excess of 100,000 gallons | 338,628 | 1,185,121 | Per Gallon | $0.21 | $71,111.88 | 248,875.41 |
| Off Site Water Management | 0 | 0 | Per Gallon | $0.60 | $0.00 | 0.00 |
| Excavation, Solidification, Transportation & Disposal | 1,381.22 | 2,265.81 | Per Ton | $214.50 | $296,271.69 | 486,016.25 |
| Handling Special Process Waste Materials | 0 | 0 | Per Ton | $80.00 | $0.00 | 0.00 |
| Liner Installation (including liner) | 28,650 | 28,650 | Per Sq. Ft. | $1.27 | $36,385.50 | 36,385.50 |
| Berm Design and Installation (2' high by 4' wide) | 0 | 0 | Per Linual Ft. | $3.80 | $0.00 | 0.00 |
| *** NOTE *** As per the contract ENRAC will reduce its billing to the extent that the proportion of absorbent material exceeds 30%, on a direct cost basis, for transportation and disposal of Tar Materials. | | | | | | |
| Excavation & Solidification of Tar Materials where absorbent material exceeds 30%. | 108.11 | 360.14 | Per Ton | $64.50 | $6,973.10 | 23,229.03 |

As of 1/31/91:

| | |
|---|---|
| Total tons sent to Adams Center Landfill (See attached log) | 2,625.95 |
| Less: Total re-agent added to the tar (See attached log) | (883.02) |
| Actual amount of tar sent to the landfill | 1,742.93 |
| Multiply the actual tar by 30% | 30% |
| Billable volume of re-agent | 522.88 |
| Actual amount of tar sent to the landfill | 1,742.93 |
| Billable volume of tar and re-agent | 2,265.81 |
| Less: previously volumes billed | (884.59) |
| Current billable volume at $214.50. | 1,381.22 |

| | |
|---|---|
| Total tons sent to Adams Center Landfill | 2,625.95 |
| Less: Total billable volume at $214.50. | (2,265.81) |
| Less: Previously billed volume at $64.50 | (252.03) |
| Current billable volume at $64.50. | 108.11 |

$214.50 less direct cost Trans & Disp of $150 = $64.50.

SUB-TOTAL: $410,742.17 $832,603.19

Chemical Waste Management, Inc.
ENRAC Division – Midwest
7250 College Drive
Palos Heights, Il 60463
Phone (708) 361-7508

| | |
|---|---|
| Customer # | 1-91 0-828 |
| Invoice # | E920113 |
| Page # | 1 of 2 |
| Terms | Net 30 Days |
| Date | 29-Jan-92 |

Payment Due By: 28-Feb-92

## NORTH SHORE GAS COMPANY

Waukegan Tar Pit
122 South Michigan Avenue
Room 1003
Chicago, Il. 60603

Attn: Mr. Jerry Picha
Title: North Shore Gas Engineer
Site Location: Waukegan, Il.
Service Period: December 1 through December 31, 1991.

Progress Billing Number 2

| SUMMARY OF SCHEDULES | TOTAL OF THIS INVOICE | TOTAL PROJECT TO DATE |
|---|---|---|
| Schedule A | $382,914.69 | 421,861.02 |
| Less: 10% Retention | ($38,291.47) | ($42,186.10) |
| TOTAL AMOUNT | $344,623.22 | $379,674.92 |
| LESS PREVIOUSLY INVOICED | N/A | 35,051.70 |
| NET AMOUNT DUE THIS INVOICE | $344,623.22 | 344,623.22 |

CONTRACT # 23817-64175

652-7766.06
2/19/92 JP

APPROVED: P. J. Doyle
P. J. DOYLE
VICE PRESIDENT

Please return a copy of the summary page with your remittance.

| Activity Description | Current Quantity | Quanitity To Date | Unit | Unit Rate | Current Value | Value To Date |
|---|---|---|---|---|---|---|
| Mobilization / Demobilization | 0% | 50% | Lump Sum | $26,194.00 | $0.00 | 13,097.00 |
| On-Site Water Management up to 100,000 gallons | 39,700 | 100,000 | Per Gallon | $0.25 | $9,925.00 | 25,000.00 |
| On-Site water Management in excess of 100,000 gallons | 846,493 | 846,493 | Per Gallon | $0.21 | $177,763.53 | 177,763.53 |
| Off Site Water Management | 0 | 0 | Per Gallon | $0.60 | $0.00 | 0.00 |
| Excavation, Solidification, Transportation & Disposal | 834.36 | 884.59 | Per Ton | $214.50 | $178,970.22 | 189,744.56 |
| Handling Special Process Waste Materials | 0 | 0 | Per Ton | $80.00 | $0.00 | 0.00 |
| Liner Installation (Including liner) | 0 | 0 | Per Sq. Ft. | $1.27 | $0.00 | 0.00 |
| B rm Design and Installation (2' high by 4' wide) | 0 | 0 | Per Lineal Ft. | $3.60 | $0.00 | 0.00 |
| *** NOTE *** As per the contract ENRAC will reduce its billing to the extent that the proportion of absorbent material exceeds 30%, on a di. ect cost basis, for transportation and disposal of Tar Materials. | | | | | | |
| Excavation & Solidification of Tar Materials where absorbent material exceeds 30%. | 252.03 | 252.03 | Per Ton | $64.50 | $16,255.94 | 16,255.94 |

As of 12/31/91:

| | |
|---|---|
| Total tons sent to Adams Center Landfill (See attached log) | 1,086.39 |
| Less: Total re-agent added to the tar (See attached log) | (405.94) |
| Actual amount of tar sent to the landfill | 680.45 |
| Multiply the actual tar by 30% | 30% |
| Billable volume of re-agent | 204.14 |
| Actual amount of tar sent to the landfill | 680.45 |
| Billable volume of tar and re-agent | 884.59 |
| Less: previously volumes billed | (50.23) |
| Current billable volume at $214.50. | 834.36 |
| Less: Total tons sent to Adams Center Landfill | (1,086.39) |
| Current billable volume at $64.50. | (252.03) |

$214.50 less direct cost Trans & Disp of $150 = $64.50.

SUB-TOTAL: $382,914.69 $421,961.02

| | |
|---|---|
| Chemical Waste Management, Inc. | Customer # 1-91-0[illegible]328 |
| ENRAC Division - Midwest | Invoice # E911203 |
| 7250 College Drive | Page # 1 of 2 |
| Palos Heights, Il 60463 | Terms Net 30 Days |
| Phone (708) 361-7508 | Date 12-Dec-91 |

Payment Due By: 11-Jan-92

## NORTH SHORE GAS COMPANY

Waukegan Tar Pit
122 South Michigan Avenue
Room 1003
Chicago, Il. 60603

| | |
|---|---|
| Attn: | Mr. Jerry Picha |
| Title | North Shore Gas Engineer |
| Site Location | Waukegan, Il |
| Service Period | November 1 through November 30, 1991. |

Progress Billing Number 1

| SUMMARY OF SCHEDULES | TOTAL OF THIS INVOICE | TOTAL PROJECT TO DATE |
|---|---|---|
| Schedule A | $38,946.34 | 38,946.34 |
| Less: 10% Retention | ($3,894.63) | ($3,894.63) |
| TOTAL AMOUNT | $35,051.70 | $35,051.70 |
| LESS PREVIOUSLY INVOICED | N/A | 0.00 |
| NET AMOUNT DUE THIS INVOICE | $35,051.70 | 35,051.70 |

652-7766.06
12/13/91 JP
#23811 64175

Approved for Payment 12/13/91

Please return a copy of the summary page with your remittance.

Schedule "A"

| Activity Description | Current Quantity | Quanitity To Date | Unit | Unit Rate | Current Value | Value To Date |
|---|---|---|---|---|---|---|
| Mobilization / Demobilization | 50% | 50% | Lump Sum | $26,194.00 | $13,097.00 | 13,097.00 |
| On-Site Water Management up to 100,000 gallons | 60,300 | 60,300 | Per Gallon | $0.25 | $15,075.00 | 15,075.00 |
| On-Site water Management in excess of 100,000 gallons | 0 | 0 | Per Gallon | $0.21 | $0.00 | 0.00 |
| Off Site Water Management | 0 | 0 | Per Gallon | $0.60 | $0.00 | 0.00 |
| Excavation, Solidification, Transportation & Disposal | 50.23 | 50.23 | Per Ton | $214.50 | $10,774.34 | 10,774.34 |
| Handling Special Process Waste Materials | 0 | 0 | Per Ton | $80.00 | $0.00 | 0.00 |
| Liner Installation (including liner) | 0 | 0 | Per Sq. Ft. | $1.27 | $0.00 | 0.00 |
| Berm Design and Installation (2' high by 4' wide) | 0 | 0 | Per Lineal Ft | $3.80 | $0.00 | 0.00 |

SUB-TOTAL: $38,946.34 $38,946.34

# *Appendix K*

## *Chemical Waste Management Daily Work Sheets*

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25018

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: 11-11-91 Monday

CUSTOMER LOCATION: Corner of Pershing and Bethringer Road Waukegan, IL

PROJECT ACTIVITY: Mobilization of Excavator and other equipment

### LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 15:30 | 10 | | |
| | Jerry Cross | 7A 15:30 | 10 | | |
| | Ed Solsberry | 7A 15:30 | 10 | | |
| | Mark Hill | 7A 15:30 | 10 | | |
| | | / | | | |
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| | | / | | | |
| OP | | / | | | |

TOTAL LABOR

### EQUIPMENT

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excavator | 24 hr | | |
| 50 KW Generator | | | |
| ~~Deco~~ Misc. tools | | | |
| Level C PPE | | | |
| Safety equip | | | |
| 3" diaphram pump | | | |
| mobile phone | | | |
| service vehicles | | | |
| 1-pickup | | | |

TOTAL EQUIPMENT

### MATERIAL & PRODUCTS

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| mobilization | 50% lump sum | | |

TOTAL MAT. & PROD

### TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|

TOTAL FREIGHT —

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|

TOTAL DISPOSAL —

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pirle

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25083

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: 11-12-91, Tuesday

CUSTOMER LOCATION: Corner of Pershing and BAHRINGER ROAD Waukegan, IL

PROJECT ACTIVITY: Mobilization of additional equipment; movement of concrete culverts from center of lagoon A corner

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excavator | 1 DAY | | |
| IT18 Loader | ↓ | | |
| Decon trailer | | | |
| OFFICE trailer | | | |
| CARbon UNIT | | | |
| 50KW Generator | | | |
| safety equip | | | |
| " trash pump | | | |
| mobile phone | | | |
| 2-service veh. | | | |
| 1-pickup | | | |
| misc. tools | | | |
| Delivery of Fuel tank | ↓ | | |
| FRAC TANK | | | |
| Level C PPE | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Diesel Fuel delivered | | | |
| | | TOTAL MAT. & PROD | |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 8:30 / 16:30 | 9.5 | | |
| | Jerry Cross | 7A / 15:30 | 10 | | |
| | Joe Dacek | 8:30 / 16:30 | 9.5 | | |
| | Ed Salsberry | 7A / 15:30 | 10 | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

Chemical Waste Management, Inc.
Environmental Remedial Action Division

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25084

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: 11-13-91, Wednesday

CUSTOMER LOCATION: Corner of Pershing AND Dahringer Road Waukegan, IL

PROJECT ACTIVITY: Connecting of wiring and grounding trailers and Fuel tanks; placing treatment system in order.

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excav. | 24 hr | | |
| IT18 loader | ↓ | | |
| Decon trailer | | | |
| office trailer | | | |
| 50KW Generator | | | |
| Safety equip. | | | |
| Carbon unit | | | |
| Frac tank | | | |
| trash pump | | | |
| mobile phone | | | |
| 2-serv. veh. | | | |
| 1-pickup | | | |
| Misc. tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | |

CWM SUPERVISOR: John L. Courtney

APPROVED (CUSTOMER): [signature]

## LABOR

| CODE | NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7:30 / 7P | 11 | | |
| | Jerry Cross | 7A / 6:30 | 11 | | |
| | Ed Solsberry | 7A / 5:30 | 10 | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25085

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Thursday, 11-14-91

CUSTOMER LOCATION: Corner of Pershing AND DAHRINGER Road Waukegan IL

PROJECT ACTIVITY: Wiring of trailers AND working on treatment system

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 8:30 5P | 8 | | |
| | Jerry Cross | 7A 6:30 | 11 | | |
| | Ed Sels Ferry | 7A 5:00P | 9.5 | | |
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| | | / | | | |
| | | | | TOTAL LABOR | |

| JIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT215 excavator | 24 hrs | | |
| IT 18 loader | | | |
| 50kw Generator | | | |
| Decon trailer | | | |
| office trailer | | | |
| 2-serv. veh | | | |
| 1-pickup | | | |
| Ozone unit | | | |
| mobile phone | | | |
| misc. tools | | | |
| Safety equip | | | |
| Level C PPE | | | |
| FRAC TANK | | | |
| 3" Dia. pump | | | |
| | | TOTAL EQUIPMENT | |

| TRANSPORTATION CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

| DISPOSAL MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

| ERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | | |
| | | TOTAL MAT. & PROD. | |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

CWM ERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

Chemical Waste Management, Inc.
Environmental Remedial Action Division
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25087

# DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Friday, Nov. 15 1991

CUSTOMER LOCATION: Corner of Pershing and Dahringer Road Waukegan, IL

PROJECT ACTIVITY: Complete wiring of office & Decon trailer. ~~Runn~~ Installing phone lines

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excavator | 24 hrs | | |
| IT 18 Loader | ↓ | | |
| Decon trailer | | | |
| Office trailer | | | |
| 50 KW Generator | | | |
| 2-serv. veh | | | |
| 1-pickup | | | |
| 1-carbon unit | | | |
| mobile phone | | | |
| FRAC tank | | | |
| misc. tools | | | |
| safety equip | | | |
| Level C/D | | | |
| 3" DAB pump | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | TOTAL MAT. & PROD | |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 8A / 17P | 10.5 | | |
| | Jerry Cross | 7A / 6:00P | 10.5 | | |
| | Ed Salisberry | 7A / 5:30 | 10 | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25088

## DAILY WORK SHEET

Project Name: WAUKEGAN TAR PIT
Project Number: 91C9-828
Day and Date: Monday, Nov. 18, 1991

CUSTOMER LOCATION: CORNER OF Pershing AND DAHRINGER Road WAUKEGAN, IL

PROJECT ACTIVITY: [redacted] Connecting hoses to carbon System and placing carbon in unit.

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 15P | 10 | | |
| | Jerry Cross | 7A 15P | 10 | | |
| | Ed Selsberry | 7A 5P | 10 | | |
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| | | / | | | |
| | | | | TOTAL LABOR | |

| JIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 Excavator | 24 hrs | | |
| IT 18 Loader | | | |
| 50 KW Generator | | | |
| Decon trailer | | | |
| office trailer | | | |
| 2 - serv. veh. | | | |
| 1 - pickup | | | |
| - carbon unit | | | |
| frac tank | | | |
| misc. Tools | | | |
| Safety equip | | | |
| Level C PPE | | | |
| 3" pump & hose | | | |
| | | TOTAL EQUIPMENT | |

| TRANSPORTATION CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

| DISPOSAL MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

| ERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

CWM ERVISOR: John L. Courtney

APPROVED (CUSTOMER): [signature]

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25089

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91 09-868
Day and Date: Tuesday Nov. 19 1991
CUSTOMER LOCATION: Corner of Pershing And Dahringer Road
PROJECT ACTIVITY: welding of hard pipe from frac tank to discharge point; completing of water treatment system / setup

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excavator | 24 hrs | | |
| IT 18 Loader | | | |
| 50KW Generator | | | |
| Decon trailer | | | |
| office trailer | | | |
| 2 serv. veh. | | | |
| 1 - pickup | | | |
| - Carbon unit | | | |
| - Frac Tank | | | |
| misc. Tools | | | |
| safety equip | | | |
| Level C PPE | | | |
| 2" pump hose | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | TOTAL MAT. & PROD | |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

| CODE | NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A / 5P | 10 | | |
| | Jerry Crass | 7A / 5P | 10 | | |
| | Ed Salsberry | 7A / 5P | 10 | | |
| | | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N. 28183

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Wednesday, Nov. 20, 1991

CUSTOMER LOCATION: Corner of Pershing and Dahringer Road Waukegan, IL

PROJECT ACTIVITY: Completion of welding of hard piping to power from Frac Tank; Troubleshooting treatment system

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excavator | 24 hrs | | |
| IT 18 Loader | | | |
| 50KW Generator | | | |
| Decon trailer | | | |
| office trailer | | | |
| 2 serv. veh. | | | |
| 1-pickup | | | |
| -carbon unit | | | |
| Frac Tank | | | |
| misc. tools | | | |
| safety equip | | | |
| Level C PPE | | | |
| 3" pump hose | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| mobilization | 1 | 13,097.00 | 13,097.00 |
| | | TOTAL MAT. & PROD | 13,097.00 |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 15P | 10 | | |
| | Jerry Cross | 7A 10:30A | 3.5 | | |
| | Ed. Solsberry | 7A 15P | 10 | | |
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| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

28184

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Thursday, Nov 21, 1991

CUSTOMER LOCATION: Corner of Pershing and Dahringer Road

PROJECT ACTIVITY: Treating water for Disposal

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excavator | 24 hrs | | |
| TT18 Loader | | | |
| 50 KW Generator | | | |
| Decon Trailer | | | |
| off trailer | | | |
| 2-serv. veh. | | | |
| 1-pickup | | | |
| carbon unit | | | |
| FRAC tank | | | |
| misc. tools | | | |
| 3" pump w/hose | | | |
| safety equip | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 30,000 | 0.25 | $7,500 |
| | | TOTAL MAT. & PROD | $7,500 |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Coudney | 7A 1/12:30A | 17 | | |
| | Ed Solsberry | 7A 1/12:30A | 17 | | |
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| | | | | TOTAL LABOR | — |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | $7,500.00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | $7,500.00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

28186

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Friday November 22, 1991

CUSTOMER LOCATION: Corner of Pershing and Bohringer Road Waukegan, IL

PROJECT ACTIVITY: Treating water from TAR PIT

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 Excav. | 24 hrs | | |
| IT 18 loader | | | |
| 50 KW Generator | | | |
| Carbon Unit | | | |
| FRAC TANKS | | | |
| Decon trailer | | | |
| Tyle TRAILER | | | |
| Serv. Veh | | | |
| 1 pickup | | | |
| 3" pump whose | | | |
| safety equip | | | |
| misc tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to USSD | 21,000 | 0.25 | 5,250.00 |
| | | TOTAL MAT. & PROD | 5,250.00 |

CWM SUPERVISOR: John L. Courtney

APPROVED (CUSTOMER): Jerry Pisko

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 15P | 10 | | |
| | Jerry Cross | 7A 15P | 10 | | |
| | Ed Salsberry | 7A 15P | 10 | | |
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| | | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 5,250.00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 5,250.00 |

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CWM ENRAD 102

# Chemical Waste Management, Inc.

*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

28185

## DAILY WORK SHEET

Project Name: Waukegan Tank Pit
Project Number: 91-09-826
Day and Date: Saturday, November 23 1991

CUSTOMER LOCATION: Cerrity & Fleming
[illegible] Blvd
[illegible] IL

PROJECT ACTIVITY: Treating water
from the Pit

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | [illegible] Lentary | 7A 11P | 5 | | |
| | [illegible] Cross | 7A 6P | 11 | | |
| | Ed Salisbury | 7A 6P | 11 | | |
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| | | | | TOTAL LABOR | |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| [illegible] 315 Excav | 9 hr | | |
| [illegible] 3400 Excav | | | |
| IT 18 Loader | | | |
| 50KW Generator | | | |
| Carbon unit | | | |
| Frac Tank | | | |
| Decon Trailer | | | |
| Fr. Trailer | | | |
| Serv. Truck | | | |
| Lakeup | | | |
| 3" pump w/hose | | | |
| Safety equip | | | |
| Misc. tools | | | |
| Misc. supp. | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to Treat | 9,300 | [illegible] | 2,325.00 |
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| | | TOTAL MAT. & PROD | 2,325 |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

## TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
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| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
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| | | | | TOTAL DISPOSAL | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 2,325 |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | 2,325 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N. 28187

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Monday, November 25, 1991

CUSTOMER LOCATION: corner of Pershing and Dahringer Road Waukegan, IL

PROJECT ACTIVITY: moving in rolloff boxes and weight scales for solidification of COAL TAR; trenched TAR PIT to get excess water to drain

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excav. | 24 hrs | | |
| LS3400 excav | | | |
| IT 18 Loader | | | |
| 50 Kw generator | | | |
| carbon unit | | | |
| FRAC Tank | | | |
| Decon trailer | | | |
| Fc. trailer | | | |
| 2-serv. veh | | | |
| 2 pickups | | | |
| 3" pump | | | |
| Safety equip | | | |
| misc. Tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 6A 15P | 11 | | |
| | Jerry Cross | 7A 15:30P | 10.5 | | |
| | Sherman Blanden | 6A 15P | 11 | | |
| | Ed Solsberry | 7A 15:30 | 10.5 | | |
| | Mike Mathis | 7A 15P | 10 | | |
| | Jim Blake | 7A 15P | 8 | | |
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| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

28188

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Tuesday, November 26, 1991

CUSTOMER LOCATION: Corner of Pershing And Dahringer Road Waukegan, ILL

PROJECT ACTIVITY: Bringing in Fly Ash for Solidification; graveling of haul roads

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excav. | 24 hrs | | |
| LS3400 excav | ↓ | | |
| IT18 Loader | ↓ | | |
| 50 Kw Generator | ↓ | | |
| Carbon Unit | ↓ | | |
| Fractank | ↓ | | |
| Decon trailer | ↓ | | |
| Ft. trailer | ↓ | | |
| -Serv. veh | ↓ | | |
| 2-pickups | ↓ | | |
| 3" pump | ↓ | | |
| safety equip | ↓ | | |
| misc. Tools | ↓ | | |
| Level C PPE | ↓ | | |
| | TOTAL EQUIPMENT | | — |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| CA6 STONE | 6 loads (132 Tons) | | |
| FlyAsh | 4 loads 41.90 tons | | |
| | TOTAL MAT. & PROD | | |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 6:30A / 6P | 11 | | |
| | Jerry Cross | 6:30A / 6P | 11.5 | | |
| | Sherman Bowden | 6:30A / 6P | 11 | | |
| | Mike Mathis | 6:30A / 6P | 11 | | |
| | Mike Mathis | 6:30A / 6P | 11 | | |
| | | | | TOTAL LABOR | — |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | — |
| TOTAL AMOUNT | |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 28190

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09 028
Day and Date: Wednesday November 27, 1991

CUSTOMER LOCATION: Corner of Pershing and Dahringer Road

PROJECT ACTIVITY: Transportation and Disposal of Solidified Coal Tar to Fort Wayne IND

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A / | 6.0 | | |
| | Jerry Cross | 6:30A / 10A | 3.5 | | |
| | Mike Mathis | 6:30 / 1P | 6.5 | | |
| | Sherman Blanden | 6:30 | 6.5 | | |
| | Ed Solsberry | 6:30 / 1P | 6.5 | | |
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| | | | | TOTAL LABOR | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 excav. | 24hrs | | |
| LS 3400 excav | ↓ | | |
| IT 18 loader | | | |
| 50KW GEN | | | |
| Carbon unit | | | |
| FRAC tank | | | |
| Decon trailer | | | |
| fc. trailer | | | |
| Serv. veh. | | | |
| 2 pickups | | | |
| 3" pump | | | |
| Safety equip | | | |
| Misc. tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills Trucking | 1 | 0596203 | 85.80/T | 1438 05 |
| " | " | 0596204 | " | 1423 43 |
| " | " | 0596205 | " | 1448 30 |
| | | | TOTAL FREIGHT | 4,309 77 |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596203 | 23577 | | 16.76T | 128.70 | 2,157 |
| 0596204 | 23578 | | 16.49T | ↓ | 2,135 |
| 0596205 | 23579 | | 16.88T | ↓ | 2,172 |
| | | | | TOTAL DISPOSAL | 6,464 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | 4,309 77 |
| DISPOSAL | 6,465 |
| TAXES | |
| TOTAL AMOUNT | 10,774 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Cross

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

28191

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: MONDAY ~~November~~ December 2, 1991

CUSTOMER LOCATION: Pershing AND Dahringer Rd.
WAUKEGAN IL 60085

PROJECT ACTIVITY: Smashing up ~~[illegible]~~ culverts for disposal. Thawing out water treatment system & treating water.

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 6A / 6P | 12 | | |
| | Perry Cross | 6:30A / 6P | 11.5 | | |
| | Mike Mathis | 6:30 / 6P | 11.5 | | |
| | Sherman Rhinden III | 6A / 6P | 12 | | |
| | Ed Silsberry | 6:30A / 6P | 11.5 | | |
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| | | | | TOTAL LABOR | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav. | 1 DAY | | |
| CAT 215 Excav. | | | |
| IT 18 loader | | | |
| FRAC TANK | | | |
| CARBON UNIT | | | |
| Deion trailer | | | |
| office trailer | | | |
| - serv. veh | | | |
| - pickups | | | |
| misc. equip | | | |
| 50KW Generator | | | |
| 3" pump | | | |
| safety equip | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Marble head Lime | | | |
| Lime Kiln Dust | 16.68T | 20/Ton | 333.60 |
| | | TOTAL MAT. & PROD | $333.60 |

TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | TOTAL DISPOSAL | | — |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | — |

CWM SUPERVISOR: John L. Courtney

APPROVED: (CUSTOMER) [illegible]

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 28192

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Tuesday, December 3, 1991
CUSTOMER LOCATION: Pershing and Dahringer Rd. Waukegan, IL 60085
PROJECT ACTIVITY: Mixing Lime Kiln dust with cold TAR for solidification; discharging treated water to sewer; transportation and disposal of sludge.

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 6:30A 7P | 12.5 | | |
| | Jerry Cross | 6:30 7P | 12.5 | | |
| | Mike Mathis | 6:30 7P | 12.5 | | |
| | Sherman Blanden | 5:30 9:30P | 16 | | |
| | Ed Salsberry | 6:30A 7P | 12.5 | | |
| | | TOTAL LABOR | | | |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 EXCAV. | 1 DAY | | |
| CAT 215 EXCAV. | | | |
| IT 18 loader | | | |
| FRAC TANK | | | |
| Carbon Unit | | | |
| Decon trailer | | | |
| off. trailer | | | |
| 1 - serv. veh. | | | |
| 1 - pickups | | | |
| misc. equip | | | |
| 50 KW Generator | | | |
| 3" pump | | | |
| safety equip | | | |
| level C PPE | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water treatment | 11,000 gal | $0.25 | 2,750.00 |
| | TOTAL MAT. & PROD | | 2,750.00 |

TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills Trucking | 1 | 0596202 | — | — |
| | | TOTAL FREIGHT | | |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596202 | 23745 | solidified Coal TAR | 24.2T | 214.50 | 5,190.00 |
| | | TOTAL DISPOSAL | | | |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 2,750.00 |
| TRANSPORTATION | |
| DISPOSAL | 5,190 |
| TAXES | |
| TOTAL AMOUNT | 7,940.00 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Paul

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25908

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Wednesday, December 4, 1991

CUSTOMER LOCATION: Pershing and Dahringer Road
Waukegan, IL 60085

PROJECT ACTIVITY: Solidifing Quick Lime with Sludge. Also, water treatment

| UIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav. | | | |
| IT 18 loader | | | |
| FRAC TANK | | | |
| Carbon Unit | | | |
| Decon trailer | | | |
| offc. Trailer | | | |
| 1-serv. veh | | | |
| 2 pickups | | | |
| misc. equip | | | |
| 50 KW Generator | | | |
| 3" pump | | | |
| Safety equip | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| TERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Marblehead Lime (Quick Lime) | 22.14T | 70/T | 1549.80 |
| | | TOTAL MAT. & PROD | 1549.80 |

CWM PERVISOR: John L Courtney

APPROVED (CUSTOMER): Jerry Pirsh

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 6A 14P | 9 | | |
| | Jerry Cross | 6:30A 7:30P | 12.5 | | |
| | Mike Mathis | 6:30A 7:30 | 12.5 | | |
| | Sherman Blanden | 6A 7:30A | 12.5 | | |
| | Ed Solsberry | 6:30A 7:30P | 12.5 | | |
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| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25895

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-028
Day and Date: Thursday, December 5, 1991
CUSTOMER LOCATION: Pershing AND Dahringer Road Waukegan, IL 60085
PROJECT ACTIVITY: mixing cold TAR in Roll off w/ Reagent for Transportation to LandFILL

### LABOR

| CODE | NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 6A / 8P | 14 | | |
| | Jerry Cross | 6:30A / 6P | 11 | | |
| | Mike Mathie | 6:30A / 6P | 11 | | |
| | Sherman Blandin | 6:30A / 8P | 13 | | |
| | Ed Salsberry | 6:30A / 6P | 11 | | |
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| | | / | | | |
| | | | | TOTAL LABOR | |

### EQUIPMENT

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | ↓ | | |
| IT 18 Loader | | | |
| FRAC TANK | | | |
| Carbon Unit | | | |
| Decon trailer | | | |
| Office Trailer | | | |
| 1 - serv. veh | | | |
| 2 - pickups | | | |
| misc. equip | | | |
| 50KW Generator | | | |
| 3" pump | | | |
| safety equip | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

### MATERIAL & PRODUCTS

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | — |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596206 | ~~[illegible]~~ | |
| " | 1 | 0596207 | " | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596206 | 23795 | Solidified | 23 T | 214.50 | 4933.5 |
| 0596207 | 23796 | Coal TAR D018 | 25 T | 214.50 | 5362.5 |
| | | | | TOTAL DISPOSAL | 10,296 |

### SUMMARY

| | |
|---|---|
| LABOR | — |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | 00 |
| DISPOSAL | 10,2[illegible] |
| TAXES | |
| TOTAL AMOUNT | 10,296 00 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER): Jerry Ponto

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25896

## DAILY WORK SHEET

Project Name: WAUKEGAN TAR PIT
Project Number: 91-09-828
Day and Date: Friday, December 6, 1991

CUSTOMER LOCATION: Pershing AND Dahringer Road Waukegan, IL 60085

PROJECT ACTIVITY: Treating water to sewer. Installing pool heater to keep water system from freezing

| JIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 24 hrs | | |
| CAT 215 excav | | | |
| IT18 Loader | | | |
| 50 KW Generator | | | |
| Carbon Unit | | | |
| FRAC TANK | | | |
| Offc. Trailer | | | |
| Decon Trailer | | | |
| 1- serv. veh | | | |
| 2- pickups | | | |
| 3" pump | | | |
| safety equip | | | |
| misc. tools | | | |
| Level C PPE | | | |
| | TOTAL EQUIPMENT | | |

| TERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 16,000 | 0.25/gal | 4,000 |
| FLYASH Wills Trucking | 16.56T | — | — |
| | | TOTAL MAT. & PROD | 4,000.00 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pirch

## LABOR

| CODE | NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| | John Courtney | 6:30 | 7:30 | 12.5 | | |
| | Jerry Cross | 6:30 | 6:30 | 11.5 | | |
| | Mike Mathis | 6:30 | 6:30 | 11.5 | | |
| | Ed Salsberry | 6:30 | 6:30 | 11.5 | | |
| | Phil CIARO | 9A | 6:30P | 10.5 | | |
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| | | | / | | | |
| | | | | TOTAL LABOR | | — |

## TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | TOTAL DISPOSAL | | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 4,000.00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 4,000.00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25897

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-69-828
Day and Date: ~~[illegible]~~ Saturday December 7, 1991

CUSTOMER LOCATION: Pershing and Dahringer Road Waukegan, IL 60085

PROJECT ACTIVITY: Treating water to NSSD sewer; Building protecting for treatment

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 Excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Generator | | | |
| Carbon Unit | | | |
| FRAC Tank | | | |
| Office Trailer | | | |
| Decon trailer | | | |
| 1-serv-veh | | | |
| 2-pickups | | | |
| 3" pump | | | |
| Safety Equip | | | |
| misc Tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | (30,000 gal) | | |
| | 72,700 | 0.25 | 3175 |
| | 17,300 | 0.21 | 3633 |
| | | | 6808 00 |
| | | TOTAL MAT. & PROD | — |

CWM SUPERVISOR: John L Courtney

APPROVED (CUSTOMER): Jerry Pirch

## LABOR

| CODE | NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| | John Courtney | 6A | 11A | 5 | | |
| | Jerry Cross | 7A | 14:30 | 9 | | |
| | Mike Mathis | 7A | 14:30 | 9 | | |
| | Sherman Bladen | 6A | 14:30 | 10 | | |
| | Ed Solsberry | 7A | 14:30 | 9 | | |
| | Phil Claro | 7A | 14:30 | 9 | | |
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| | | | / | | | |
| | | | / | | | |
| | | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 6808 00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 6808 00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25898

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: SUNDAY December 8, 1991

CUSTOMER LOCATION: Treating water to sewer; Solidifing TAR and transportation and disposal

PROJECT ACTIVITY: Pershing and Dahringer Rd Waukegan IL 60085

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 6P | 10.5 | | |
| | Jerry Cross | 7A 6P | 10.5 | | |
| | Mike Mathis | 7A 6P | 10.5 | | |
| | Sherman Blanden | 7A 6P | 10.5 | | |
| | Ed Salsberry | 7A 5:30P | 10 | | |
| | Phil Claro | 7A 5:30P | 10 | | |
| | | TOTAL LABOR | | | — |

| JIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 EXCAV | 10AV | | |
| 215 EXCAV | | | |
| IT 18 loader | | | |
| 50 KW Gen. | | | |
| Carbon Unit | | | |
| F-RAC TANK | | | |
| office Trailer | | | |
| econ trailer | | | |
| serv. veh | | | |
| 2 pickups | | | |
| 3" pump | | | |
| Safety equip | | | |
| misc-tools | | | |
| Level C PPE | | | |
| | TOTAL EQUIPMENT | | |

| TERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| WATER TO MSD | 30,000 | 0.21 | |
| | TOTAL MAT. & PROD | | 6,300 |

TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596230 | — | — |
| | | TOTAL FREIGHT | | |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596230 | 23937 | D018 solidified cold TAR | 24 Test | 214.50 | 5148 |
| | | TOTAL DISPOSAL | | | 5148 |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 6,300 |
| TRANSPORTATION | |
| DISPOSAL | 5148 |
| TAXES | |
| TOTAL AMOUNT | 11,448 |

CWM SUPERVISOR: John F. Courtney

APPROVED (CUSTOMER): Jerry Pinka

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25899

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Monday December 9, 1991

CUSTOMER LOCATION: Pershing Ave Dahringer Road
Waukegan, IL 60085

PROJECT ACTIVITY: Treating water to NSSD; ~~building~~ winterizing treatment system, Transportation and disposal of solidified coal tar

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A / 5:30P | 10 | | |
| | Larry Cross | 7A / 5:30 | 10 | | |
| | Mike Mathis | 7A / 5:30P | 10 | | |
| | Sherman Blanden | 7A / 5:30P | 10 | | |
| | Ed Solsberry | 2A / 12P | 9.5 | | |
| | Phil Clark | 2A / 12P | 9.5 | | |
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| | | | | TOTAL LABOR | |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| 215 excav. | ↓ | | |
| I 18 loader | | | |
| 50 KW GEN | | | |
| Carbon unit | | | |
| FRAC TANK | | | |
| ~~office trailer~~ | | | |
| Decon trailer | | | |
| 1 - serv. pickup | | | |
| 2 - pickups | | | |
| 3" pump | | | |
| Safety equip | | | |
| misc. tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 30,000 | 0.21 | 6,300 |
| | | TOTAL MAT. & PROD | 6,300 |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596231 | — | |
| " | " | 0461452 | — | |
| " | " | 0461453 | — | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596231 | 23988 | solidified | 23 cyd | 214.50 | 4933.5 |
| 0461452 | 23989 | Coal Tar | 23 cyd | " | 4933.5 |
| 0461453 | 23997 | D018 | 25 cyd | " | 5362.5 |
| | | | | TOTAL DISPOSAL | 15,229 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 6,300.00 |
| TRANSPORTATION | |
| DISPOSAL | 15,229.50 |
| TAXES | |
| TOTAL AMOUNT | 21,529.50 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25900

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT Site
Project Number: 91-09-828
Day and Date: Tuesday December 10 1991

CUSTOMER LOCATION: Pershing and Dahringer Road
Waukegan IL 60085

PROJECT ACTIVITY: treating water to NSSD
Water quanity is limiting
Coal TAR solidification

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Generator | | | |
| Carbon Unit | | | |
| FRAC Tank | | | |
| Office trailer | | | |
| Decon trailer | | | |
| 1 serv. veh | | | |
| 2 pickups | | | |
| 3" pump | | | |
| safety equip. | | | |
| misc. tools | | | |
| Level CPPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water To NSSD | 30,000 | 0.21 | 6,300.00 |
| | | TOTAL MAT. & PROD | 6,300.00 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pasta

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 5:30 | 10.5 | | |
| | Jerry Craft | 7A 5:30 | 10.5 | | |
| | Mike Mathis | 7A 5:30 | 10.5 | | |
| | Sherman Blanden | 7A 5:30 | 10.5 | | |
| | Ed Solberry | 2A 10:30P | 8 | | |
| | Phil Claro | 2A 12:30P | 10 | | |
| | Joe Lacek | 2P 5P | 3 | | |
| | John Bailey | 2P 5P | 3 | | |
| | | / | | | |
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| | | / | | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 6,300.00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 6,300.00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25901

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-69-828
Day and Date: Wednesday December 11, 1991

CUSTOMER LOCATION: Pershing and Dahringer Road
Waukegan, IL 60085

PROJECT ACTIVITY: Treating water to NSSD; Shipping trucks out for disposal; Solidifying cold TAR w/ new recipe from R&D

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 exo V | 1 DAY | | |
| 215 EXCAV | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| Carbon Unit | | | |
| FRAC TANK | | | |
| Office Trailer | | | |
| Gen Trailer | | | |
| 1 - serv. pickup | | | |
| 2 - pickup | | | |
| 3" pump | | | |
| Safety equip | | | |
| Misc. Tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| WATER TO NSSD | 30,000 gal | 0.21 | 6,300.00 |
| | 47,100 | 0.21 | 9,891.00 |
| 3" Limestone Rock | 85.55T | $13/T | |
| | | TOTAL MAT. & PROD | 16,191 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pinto

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 8A 18P | 12 | | |
| | Jerry Cross | 7A 7P | 11.5 | | |
| | Mike Mathis | 7A 7P | 11.5 | | |
| | Sherman Blanden | 7A 8P | 12.5 | | |
| | Ed Solsberry | 2A 7P | 5.0 | | |
| | Jack Jaskek | 2A 12P | 9.5 | | |
| | John Bailey | 2A 12P | 9.5 | | |
| | | TOTAL LABOR | | | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills trucking | 1 | 0596232 | — | — |
| Wills trucking | 1 | 0596233 | — | — |
| | | TOTAL FREIGHT | | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596232 | 24034 | solidified | 21 Tent | 214.50 | 4504.50 |
| 0596233 | 24035 | cool TAR | 21 Tent | " | 4504.50 |
| | | D018 | | | |
| | | | | TOTAL DISPOSAL | 9,009 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 16,191 |
| TRANSPORTATION | |
| DISPOSAL | 9,009 |
| TAXES | |
| TOTAL AMOUNT | |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25902

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Thursday December 12, 1991

CUSTOMER LOCATION: Pershing And Dahringer Road
Waukegan, IL

PROJECT ACTIVITY: treating water to NSSD; Remixed Solidified coal TAR with quicklime

| JIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| Carbon unit | | | |
| FRAC TANK | | | |
| offc. Trailer | | | |
| Decon Trailer | | | |
| 1 serv. pickup | | | |
| 2 pickups | | | |
| 3" pump | | | |
| safety equip | | | |
| misc. tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| TERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 144,000 | 0.21 | 30,240.00 |
| | | TOTAL MAT. & PROD | 30,240.00 |

CWM ERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pinto

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A / 5P | 10 | | |
| | Jerry Cross | 7A / 7P | 12 | | |
| | Mike Mathis | 7A / 7P | 12 | | |
| | Sherman Blanden | 7A / 7P | 12 | | |
| | Joe Jacek | 7P / 7A | 11.5 | | |
| | John Bailey | 7P / 7A | 11.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
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| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 30,240.00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 30,290.00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25903

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Friday December 13, 1991

CUSTOMER LOCATION: Pershing and Dahringer Road Waukegan IL

PROJECT ACTIVITY: treating water to NSSD; solidifying coal tar

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A16P | 11 | | |
| | Jerry Cross | 7A15:30 | 10 | | |
| | Mike Mathis | 7A16P | 11 | | |
| | Sherman Blanden | 7A15:30 | 10 | | |
| | Joe Jacek | 9B30P 11A | 18 | | |
| | John Bailey | — / — | | | |
| | | / | | | |
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| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| 215 excav | | | |
| IT 18 loader | | | |
| 50 KW GEN | | | |
| carbon unit | | | |
| FRAC Tank | | | |
| offc. Trailer | | | |
| Decon Trailer | | | |
| 2 serv. pickup | | | |
| 2 pickups | | | |
| 3" pump | | | |
| Safety equip | | | |
| misc. Tools | | | |
| Level C PPE | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 144,000 | 0.21 | 30,240.00 |
| | | TOTAL MAT. & PROD | 30,240.00 |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | TOTAL DISPOSAL | | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 30,240.00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 30,240.00 |

CWM SUPERVISOR: John J. Courtney

APPROVED: (CUSTOMER) Jerry Pinka

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25905

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Saturday December 14, 1991

CUSTOMER LOCATION: Pershing and Dahringer Road
Waukegan, IL 60085

PROJECT ACTIVITY: treating water to NSSD: Building portion for carbon unit, recirculation water with system

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | DAY | | |
| 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Generator | | | |
| carbon unit | | | |
| FRACTANK | | | |
| office trailer | | | |
| Decon trailer | | | |
| 1 serv. veh | | | |
| 2 pickups | | | |
| 3" pump | | | |
| misc. tools | | | |
| Level C PPE | | | |
| safety equip | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 37,800 | 0.21 | 7,938.00 |
| | | TOTAL MAT. & PROD | 7,938.00 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pinda

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 18P | 12.5 | | |
| | Joe Jacek | 5:30P 12A | 7 | | |
| | | / | | | |
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| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 7,938.00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 7,938.00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

..? 25904

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Sunday December 15, 1991

CUSTOMER LOCATION: Pershing and Dohringer Rd. Waukegan, IL 60085

PROJECT ACTIVITY: Loading trucks for disposal recirculating water system

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| office trailer | | | |
| Decon trailer | | | |
| FRAC TANK | | | |
| Carbon unit | | | |
| 2 serv. veh | | | |
| 2 pickups | | | |
| 3" pump | | | |
| misc. tools | | | |
| level ~~[illegible]~~ | | | |
| Safety Equit | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pinkus

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 6:30P | 11 | | |
| | Joe Jacek | 12A 11:30P | 13.5 | | |
| | Sherman Blanden | 7A 7P | 11.5 | | |
| | John Baily | 7A 12P | 5 | | |
| | Joe Jacek | 7P 12A | 5 | | |
| | | / | | | |
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| | | / | | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills trucking | 1 | 0596235 | — | — |
| " | 1 | 0596236 | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596235 | 24097 | Solidified | 29 Test | 214.50 | 6220 |
| 0596236 | 24098 | Cool TAR | 21 Test | " | 4504 |
| | | D018 | | | |
| | | | | TOTAL DISPOSAL | ~~6220~~ 10,725 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | 10,725 |
| DISPOSAL | ~~6,22~~ |
| TAXES | |
| TOTAL AMOUNT | 10,725 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25906

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Monday December 16, 1991

CUSTOMER LOCATION: Pershing and Dahringer Road
Waukegan IL 60085

PROJECT ACTIVITY: Treating water to NSSD. Solidification and transportation of material

| UIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| Frac Tank | | | |
| carbon unit | | | |
| 2 pickups | | | |
| 1 suburban | | | |
| off. Trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| misc. tools | | | |
| Level C PPE | | | |
| safety equip | | | |
| | | TOTAL EQUIPMENT | |

| TERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 40,575 gal | 0.21 | 8520.75 |
| CWM-Welder | | | |
| | | TOTAL MAT. & PROD | 8520.75 |

CWM PERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A / 8P | 12.5 | | |
| | Jerry Cross | 7A / 8:30P | 13 | | |
| | Mike Mathis | 7A / 8:30P | 13 | | |
| | Spearman Albertson | 7A / 8P | 12.5 | | |
| | Joe Jacek | 7P / 7A | 11.5 | | |
| | John Bailey | 7P / 7A | 12 | | |
| | | TOTAL LABOR | | | |

TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills trucking | 1 | 0596237 | — | — |
| " | 1 | 0596238 | — | — |
| | | TOTAL FREIGHT | | |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596237 | 24167 | solidified | 11.79T | 214.50 | 2528.55 |
| 0596238 | 24168 | coal TAR D018 | 13.42T | " | 2878.5 |
| | | TOTAL DISPOSAL | | | 5,407.5 |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 8,520.75 |
| TRANSPORTATION | |
| DISPOSAL | 5,467.55 |
| TAXES | |
| TOTAL AMOUNT | 13,928.30 |

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CWM ENRAD 102

Chemical Waste Management, Inc.
Environmental Remedial Action Division
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25907

# DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Tuesday, December 17, 1991
CUSTOMER LOCATION: Pershing and Dahringer Rd. Waukegan IL 60085
PROJECT ACTIVITY: Treating water to NSSD: Solidification, Transport and Disposal of coal TAR

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 loader | | | |
| IT 18 loader | | | |
| 50 KW Generator | | | |
| FRAC TANK | | | |
| Carbon Unit | | | |
| 2 - pickups | | | |
| 1 service veh | | | |
| Office Trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| MISC. Tools | | | |
| Level C PPE | | | |
| Safety equip | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 78,320 | 0.21 | 16,447.20 |
| | | TOTAL MAT. & PROD | 16,447.20 |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER): [signature]

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A / 7P | 12 | | |
| | Jerry Cross | 7A / 7:30P | 12 | | |
| | Mike Mathis | 7A / 7:30 | 12 | | |
| | Sherman Blanden | 7A / 7:30 | 12 | | |
| | Joe Pacek | 4A / 12P | 9.5 | | |
| | John Bailey | 4A / 12P | 9.5 | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596239 | | |
| " | " | 0596240 | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596239 | 24169 | Solidified | 22 est | 214.50 | 4719.00 |
| 0596240 | 24295 | Coal TAR D018 | 21 est | " | 4504.50 |
| | | | | TOTAL DISPOSAL | 9,223.50 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 16,447.20 |
| TRANSPORTATION | |
| DISPOSAL | 9,223.50 |
| TAXES | |
| TOTAL AMOUNT | 25,670.70 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

21097

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Wednesday, December 18, 1991
CUSTOMER/LOCATION: Pershing and Dahlmann Road Waukegan, IL 60085
PROJECT ACTIVITY: Treating water to NSSD, excavation, solidification, transportation and disposal of TAR

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 5:30P | 9.50 | | |
| | Percy Cross | 7A 5:30P | 10 | | |
| | Mike Mathis | 7A 5:30P | 10 | | |
| | Sherman Blunker | 7A 5:30P | 10 | | |
| | Joe Garcia | 9A 12P | 10 | | |
| | John Bailey | 9A 12P | 10 | | |
| | | TOTAL LABOR | | | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav. | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50KW Generator | | | |
| FRAC TANK | | | |
| Carbon Unit | | | |
| 2 - pickups | | | |
| Serv. veh | | | |
| Office trailer | | | |
| Decon trailer | | | |
| 2 - 3" pumps | | | |
| Misc. Tools | | | |
| Level C PPE | | | |
| Safety equip | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 20,970 | 0.21 | 4,403.70 |
| FLYASH | 51.28T | | |
| | TOTAL MAT. & PROD | | 4,403.70 |

| TRANSPORTATION CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596241 | 20.0 wt | — |
| " | " | 0596242 | 21 wt | — |
| " | " | 0596243 | 21 wt | — |
| " | " | 0596244 | 21 wt | — |
| | | | TOTAL FREIGHT | |

| DISPOSAL MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596241 | 24296 | Solidified | 20 wt | 214.50 | 4290.- |
| 0596242 | 24297 | TAR | 21 wt | | 4504.50 |
| 0596243 | 24338 | D018 | 21 wt | | 4504.50 |
| 0596244 | 24339 | | 21 wt | | 4504.50 |
| | | | TOTAL DISPOSAL | | 17,803 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 4,403.70 |
| TRANSPORTATION | |
| DISPOSAL | 17,803.50 |
| TAXES | |
| TOTAL AMOUNT | 22,207.20 |

CWM SUPERVISOR: John L. Courtney

APPROVED: (CUSTOMER) [illegible]

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 21096

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Thursday, December 19, 1991

CUSTOMER LOCATION: Pershing and Dahringer Road
Waukegan, IL 60085

PROJECT ACTIVITY: Treating water to NSSD; Excavation, Solidification, transportation and Disposal of TAR.

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Generator | | | |
| FRAC TANK | | | |
| carbon unit | | | |
| 2 pickups | | | |
| 1 serv. veh | | | |
| Offc. Trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| Misc. Tools | | | |
| Level C PPE | | | |
| Safety equip | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| NSSD | 23,558 | 0.21 | 4947.18 |
| Flyash Oilivered | 51.66T | — | — |
| | | TOTAL MAT. & PROD | 4947.18 |

SUPERVISOR: John L. Courtney

APPROVED: (CUSTOMER) Jerry Pinto

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 12P | 7 | | |
| | Jerry Cross | 7A 17:30P | 12 | | |
| | Mike Mathis | 7A 17:30P | 12 | | |
| | Sherman Bowden | 7A 9:30 | 14 | | |
| | Joe Jacek | 7A 6:30 | 11 | | |
| | John Bailey | 7A 6:30 | 11 | | |
| | | / | | | |
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| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596245 | | |
| " | " | 0596246 | | |
| " | " | 0596247 | | |
| " | " | 0596248 | | |
| " | " | 0596249 | | |
| " | " | 0596208 | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596245 | 24352 | Solidified | 20 est | 214.50 | 4290.00 |
| 0596246 | 24353 | Coal TAR | 21 est | " | 4504.50 |
| 0596247 | 24354 | DO18 | 22 est | " | 4719.00 |
| 0596248 | 24355 | | 22 est | | 4719.00 |
| 0596249 | 24356 | | 20 est | | 4290.00 |
| 0596208 | 24357 | | 21 est | | 4504.50 |
| | | | | TOTAL DISPOSAL | 27,027 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 4,947.18 |
| TRANSPORTATION | |
| DISPOSAL | 27,02 |
| TAXES | |
| TOTAL AMOUNT | 31,974.18 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

21098

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: FRIDAY, December 20, 1991

CUSTOMER LOCATION: Pershing and Dahomey Rd Waukegan, IL

PROJECT ACTIVITY: Solidified TAR material treated water to NSSD; Mobilized additional carbon unit onto site

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | — / — | | | |
| | Jerry Cross | 7A / 6P | 10.5 | | |
| | Mike Mathis | 7A / 5P | 9.5 | | |
| | Sherman Blanden | 7A / 5P | 9.5 | | |
| | Joe Jacek | 7A / 5P | 9.5 | | |
| | John Bailey | / | 2 | | |
| | | / | | | |
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| | | / | | | |
| | | / | | | |
| | | | TOTAL LABOR | | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 Kw Generator | | | |
| FRAC TANK | | | |
| Carbon unit | | | |
| 2 pickups | | | |
| 1 serv. veh | | | |
| office Trailer | | | |
| Decon Trailer | | | |
| 3" pump | | | |
| 2-light plants | | | |
| misc. tools | | | |
| Safety equip | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Treated water to NSSD | 15,775 | 0.21 | 3312.75 |
| | | TOTAL MAT. & PROD | 3312.75 |

TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | — |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | TOTAL DISPOSAL | | — |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 3312.75 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 3312.75 |

SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Cross

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 21099

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-89-828
Day and Date: Saturday, December 21, 1991

CUSTOMER LOCATION: Pershing and Dehringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Treating water to NSSD; Solidifying material for disposal

### LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 9 / 12 | 3 | | |
| | Jerry Cross | 8A / 3P | 6.5 | | |
| | Mike Mathis | 8A / 3P | 7 | | |
| | Sherman Blanton | 8 / 1P | 5 | | |
| | Joe Jacek | 8A / 1P | 5 | | |
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| | | | | TOTAL LABOR | — |

### TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
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| | | | TOTAL FREIGHT | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
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| | | | | | |
| | | | | TOTAL DISPOSAL | — |

### EQUIPMENT

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| FRAC TANK | | | |
| Carbon unit | | | |
| 2 pickups | | | |
| 1 serv-vch | | | |
| office Trailer | | | |
| Dump trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| safety equip. | | | |
| | | TOTAL EQUIPMENT | |

### MATERIAL & PRODUCTS

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 13,580 | 0.21 | 2,851.80 |
| Additional Carbon | 1 | 2,640.00 | 2,640.00 |
| | | | 5,491.80 |
| | | TOTAL MAT. & PROD | ~~2,851.80~~ |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | ~~2,851.80~~ 5,491.80 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 5,491.80 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Paul

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

21099

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-89-828
Day and Date: Saturday, December 21, 1991

CUSTOMER LOCATION: Pershing and Dahringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Treating water to NSSD; Solidifying material for disposal

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 9 1/2 | 3 | | |
| | Jerry Cross | 8 A 1 3P | 6.5 | | |
| | Mike Mathis | 8 A 1 3 P | 7 | | |
| | Sherman Blanton | 8 1 1P | 5 | | |
| | Joe Jacek | 8A 1 1P | 5 | | |
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| | | | | TOTAL LABOR | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| Frac Tank | | | |
| Carbon unit | | | |
| 2 pickups | | | |
| 1 serv. veh | | | |
| office Trailer | | | |
| Beer trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. Tools | | | |
| safety equip. | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 13580 | 0.21 | 2,851.80 |
| ~~Additional Carbon~~ | ~~1~~ | ~~2,640.00~~ | ~~2,640.00~~ |
| NOT INVOICED ON DECEMBER OR JANUARY BILLINGS | | | |
| | | | 5,491.80 |
| | | TOTAL MAT. & PROD | ~~2,851.80~~ |

| TRANSPORTATION CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

| DISPOSAL MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | TOTAL DISPOSAL | | — |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | ~~2,851.80~~ 5,491.80 |
| TRANSPORTATION | — |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | ~~2,851.80~~ 5,491.80 |

SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) [illegible]

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 21100

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Sunday, December 22, 1991

CUSTOMER LOCATION: Pershing and Dahringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Treated water to NSSD, Transportation and Disposal of TAR To Land Fill

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50KW Gen | | | |
| FRAC TANK | | | |
| Carbon Unit | | | |
| 2 pickups | | | |
| serv. veh | | | |
| office trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. Tools | | | |
| safety equip | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water To NSSD | 27,210 | 0.21 | 5,714.10 |
| | | TOTAL MAT. & PROD | 5,714.10 |

CWM SUPERVISOR: John L. Courtney

APPROVED: (CUSTOMER) Jerry Pick

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 8A / 4:30P | 8.5 | | |
| | Jerry Cross | 7A / | | | |
| | Mike Mathis | 7A / | | | |
| | Sherman Blanden | 7A / | | | |
| | Joe Jack K | 7A / | | | |
| | | / | | | |
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| | | / | | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596209 | — | |
| " | 1 | 0596210 | — | |
| " | 1 | 0596211 | — | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596209 | 24376 | Solidified | 23 est | 214.50 | 4933.5 |
| 0596210 | 24377 | Coal TAR | 22 est | | 4719.05 |
| 0596211 | 24392 | D018 | 24 est | | 5148.5 |
| | | | | TOTAL DISPOSAL | 14,800.6 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 5714.10 |
| TRANSPORTATION | ~~57~~ |
| DISPOSAL | 14,800.6 |
| TAXES | |
| | 20,514.66 |
| TOTAL AMOUNT | ~~5,714~~ |

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CWM ENRAD 102

# Chemical Waste Management, Inc.

*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

21105

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Monday December 23, 1991
CUSTOMER LOCATION: Pershing AND Dahringer Rd. Waukegan, IL
PROJECT ACTIVITY: Hooking up water system for shutdown over Christmas

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 12 | 5 | | |
| | Jerry Cross | 7A 12 | 5 | | |
| | Mike Mathis | 7A 12 | 5 | | |
| | Sherman Blanchard | 7A 12 | 5 | | |
| | Joe Jacob | 7A 12 | 5 | | |
| | | TOTAL LABOR | | | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| FRAC TANK | | | |
| Carbon unit (2) | | | |
| off-trailer | | | |
| Drum trailer | | | |
| pickups | | | |
| serv. vehs. | | | |
| 50 KW Gen | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | |

| TRANSPORTATION CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

| DISPOSAL MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

CWM SUPERVISOR: John L. Courtney

APPROVED (CUSTOMER): [illegible]

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 21101

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit (NSG)
Project Number: 91-89-828
Day and Date: Thurs 12/26/91

CUSTOMER LOCATION: Waukegan

PROJECT ACTIVITY: Tar Removal / load Trks
Setup Water Trmt. System

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 | | | |
| CAT 215 | | | |
| IT 18 | | | |
| 50 KW Gen | | | |
| Frac Tank | | | |
| Carbon Unit | | | |
| Pickups (2) | 1 | | |
| Office Trlr | | | |
| Decon | | | |
| 3" Pump | | | |
| 2 Light Plants | | | |
| Mist Tools | | | |
| Radios | | | |
| Fuel Tanks (2) | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Rolloffs (7) | | | |
| Portolets (2) | | | |
| Fax Machine | | | |
| Propane | | | |
| Stone | | | |
| Dust (Fly ash) | 18.6 T | | |
| | | TOTAL MAT. & PROD | |

SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| SPN | J. Hlavacek | 0830 10600 | 9.5 | | |
| PF | J. Jacek | 0730 10600 | 10 | | |
| O | M. Luketich | 0900 10600 | 8.5 | | |
| | Travel | / | 7 | | |
| T | Jim York | 1000 10600 | 7.5 | | |
| T | Scott Highlander | 1000 10600 | 7.5 | | |
| | Travel (York) | / | 2 | | |
| | Travel (High) | / | 2 | | |
| | | / | | | |
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| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills 15143 | 1 | INA 0624121 | | |
| 15141 | 1 | 0624120 | | |
| 15142 | 1 | 0624119 | | |
| 15144 | 1 | 0624118 | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624121 | 24454 | AN0864 | 24.5 | 214.50 | 5255 |
| 0624120 | 24455 | " | 22.6 | | 4847 |
| 0624119 | 24456 | " | 22.7 | | 4719 |
| 0624118 | 24457 | " | 24 T | | 5148 |
| | | | | TOTAL DISPOSAL | 19,969 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| x 4 PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 19,969.95 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

21102

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT (NSG)
Project Number: 91-09-828
Day and Date: 12-27-91

CUSTOMER LOCATION: Pershing AND Dahringer Road
Waukegan, IL 60085

PROJECT ACTIVITY: Water treatment (pumping water off lagoon)

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 EXCAV | 1 DAY | | |
| CAT 215 EXCAV | | | |
| IT 18 | | | |
| 50 KW GEN | | | |
| FRAC TANK | | | |
| Carbon Unit (2) | | | |
| pickups & rv. veh | | | |
| Office Trailer | | | |
| Decon Trailer | | | |
| 3" pump | | | |
| 2 light Plants | | | |
| misc. Tools | | | |
| Radios | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 41,700 | 0.21 | 8,757.00 |
| | | TOTAL MAT. & PROD | 8757.00 |

CWM SUPERVISOR: John J Courtney

APPROVED: (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 3:30 | 8.5 | | |
| | Jerry Cross | 7A 7P | 11.5 | | |
| | Mike Mathis | 7A 7P | 11.5 | | |
| | Joe Jacek | 7A 7P | 11 | | |
| | Mike Lukotich | 7A 1P | 6 | | |
| | Jim York | 7A 1:30 | 6 | | |
| | Scott Highlander | 7A 10:30 | 3.5 | | |
| | | TOTAL LABOR | | | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 8757.00 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 8757.00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

№ 21103

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: 12-28-91 Saturday

CUSTOMER LOCATION: Pershing and Dahringer Road
Waukegan, IL 60085

PROJECT ACTIVITY: treating water solidifying material for Sunday TAR

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| FRALTANK | | | |
| Carbon Unit (2) | | | |
| Pickups (2) | | | |
| Serv. veh (2) | | | |
| Office trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| Radios | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 18,150 | 0.21 | 3811.50 |
| | | TOTAL MAT. & PROD | 3811.50 |

SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | — / — | — | | |
| | Jerry Cross | 7A / 4P | 85 | | |
| | Mike Mathis | 7A / 3:30 | 8 | | |
| | Joe Jacek | / | | | |
| | Mike Luketich | 12A / 9A | 9 | | |
| | Jim York | 12A / 9A | 9 | | |
| | Scott Highlander | 7A / 1:30 | 4.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 3811.50 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 3811.50 |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

21104

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Sunday, December 29, 1991

CUSTOMER LOCATION: Pershing and Dahringer Rd. Waukegan IL 60085

PROJECT ACTIVITY: treating water, loading trucks to Fort Wayne

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| FRAC TANK | | | |
| Carbon Unit (2) | | | |
| pickups (2) | | | |
| Serv. veh (2) | | | |
| office trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| Radios | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 21,330 | 0.21 | 4479.30 |
| | | TOTAL MAT. & PROD | |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 6A 13:30 | 9 | | |
| | Jerry Cross | 7A 13:30 | 8 | | |
| | Mike Mathis | 7A 13:30 | 8 | | |
| | Sherman Blanden | 6A 13:30 | 9 | | |
| | Joe Jacek | 7A 13:30 | 8 | | |
| | M. Luketich | 4A 12:30 | 8 | | |
| | J. York | 4A 12:30 P | 8 | | |
| | S. Highlander | 4A 12:30 P | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0624117 | — | — |
| " | 1 | 0624116 | | |
| " | 1 | 0624115 | | |
| " | 1 | 0624114 | | |
| " | 1 | 0624113 | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624117 | 24529 | Solidified | 25 ent | 214.50 | 5362.5 |
| 0624116 | 24530 | Coal TAR | 24 ent | | 5148.5 |
| 0624115 | 24531 | (D018) | 23 | | 4933.5 |
| 0624114 | 24532 | | 23 | | 4933.5 |
| 0624113 | 24533 | | 25 | | 5362.5 |
| | | | | TOTAL DISPOSAL | 25,740 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 4479.30 |
| TRANSPORTATION | |
| DISPOSAL | 25,740 |
| TAXES | |
| TOTAL AMOUNT | 30,219.3 |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N= 21106

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-838
Day and Date: Monday, December 30, 1991

CUSTOMER LOCATION: Pershing and Dahringer
Waukegan, IL 60085

PROJECT ACTIVITY: solidifying material for loading of trucks to Fort Wayne, treating water

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT18 loader | | | |
| 50 KW Generator | | | |
| FRAC TANK | | | |
| Carbon Unit (2) | | | |
| pickups (2) | | | |
| serv. veh (2) | | | |
| office trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| Radios | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water To NSSD | 15600 | 0.21 | 3,276.00 |
| FLYASH | 17.6 TONS (2 LDS) | | |
| | | TOTAL MAT. & PROD | 3276.00 |

SUPERVISOR: John L Courtney

APPROVED (CUSTOMER): Jerry Pirch

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 6A 10:30P | 16 | | |
| | Jerry Cross | 7A 5P | 9.5 | | |
| | Mike Mathis | 7A 9P | 13.5 | | |
| | Sherman Blanden | 6A 9P | 14.5 | | |
| | Joe Jacek | 3A 3P | 10.5 | | |
| | Scott Highlander | 3A 7P | 8 | | |
| | Mike Kuketich | 2P 11P | 9.0 | | |
| | Jim York | 2P 11P | 9.0 | | |
| | John Bailey | 11P 7A | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills trucking | 1 | 0624113 | Rejected load | 121 |
| " " | 1 | 0596193 | | |
| " " | 1 | 0596192 | | |
| " " | 1 | 0596191 | | |
| " " | 1 | 0596190 | | |
| " " | 1 | 0596189 | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624113 | 24533 | Rejected | 25 est | (214.50) | (5362 |
| ~~0624113~~ | 0 | | | | |
| 0596193 | 24559 | Solidified | 21 est | 214.50 | 4504.50 |
| 0596192 | 24560 | TAR | 20 est | " | 4290.00 |
| 0596191 | 24561 | D018 | 20 est | " | 4290.00 |
| 0596190 | 24562 | | 21 est | " | 4504.50 |
| 0596189 | 24563 | | 21 est | " | 4504.50 |
| | | | | TOTAL DISPOSAL | 16,731 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 3,276.00 |
| TRANSPORTATION | |
| DISPOSAL | 16,7[illegible] |
| TAXES | |
| TOTAL AMOUNT | 20,007.00 |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

21107

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Tuesday December 31, 1991

CUSTOMER LOCATION: Pershing and Dahringer Waukegan, IL 60085

PROJECT ACTIVITY: Treating water; mixing TAR with Flyash; Transportation and Disposal of material at Fort Wayne

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Generator | | | |
| FRAC TANK | | | |
| Carbon unit (2) | | | |
| Pickups (2) | | | |
| Serv. veh (2) | | | |
| Ice trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| Misc. Tools | | | |
| Radios | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 19,525 | 0.21 | 4100 25 |
| FLYASH | 44.3T | (3 LDS) | |
| | | TOTAL MAT. & PROD | 4100 25 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pirch

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 10:30 | 3.5 | | |
| | Jerry Cross | 7A 11P | 4 | | |
| | Mike Mathis | 7A 8:30 | 13 | | |
| | Sherman Blanden | 7A 3:30 | 8 | | |
| | Joe Racek | 7A 3:30 | 8 | | |
| | Mike Luketich | 1:30P 11P | 9.5 | | |
| | Jim York | 3P 11P | 8 | | |
| | Scott Highlander | 11P 7A | 8 | | |
| | John Bailey | 11P 7A | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | TOTAL LABOR | | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596192 | Rejected | loads |
| " | " | 0596191 | | |
| " | " | 0596190 | | |
| " | " | 0596188 | | |
| " | " | 0596187 | | |
| " | " | 0596186 | | |
| " | " | 0596185 | | |
| " | " | 0596194 | | |
| " | " | 0596195 | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596192 | 24560 | D018 | 20 est | (214 50) | (4290 |
| 0596191 | 24561 | Solidified | 20 est | | (4290 |
| 0596190 | 24562 | coal Tar | 21 est | | (4504 5 |
| 0596188 | 24564 | " | 21 est | 214 50 | 4504 5 |
| 0596187 | 24565 | " | 21 est | " | 4504 50 |
| 0596186 | 24566 | " | 22 est | " | 4719 50 |
| 0596185 | 24567 | " | 21 est | " | 4504 5 |
| 0596194 | 24568 | " | 22 est | " | 4719 5 |
| 0596195 | 24569 | " | 21 est | " | 4504 5 |
| | | | | TOTAL DISPOSAL | 14,371 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 4,100 25 |
| TRANSPORTATION | |
| DISPOSAL | 14,371 50 |
| TAXES | |
| TOTAL AMOUNT | 18,471 75 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 21108

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91L03-828
Day and Date: Wednesday January 1, 1992

CUSTOMER LOCATION: Pershing and Dahringer
Waukegan IL 60085

PROJECT ACTIVITY: treating water; mixing TAR with flyash

### LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 8:30A 1P | 4.5 | | |
| | Jerry Cross | 11:30A 4P | 4.5 | | |
| | Mike Mathas | 7A 4P | 8.5 | | |
| | Sherman Blandin | 7A 4P | 8.5 | | |
| | Joe Jalek | 7A 4P | 8.5 | | |
| | Mike Lukotich | 3P 11P | 8 | | |
| | Jim York | 3P 11P | 8 | | |
| | John Bailey | 3P 7A | 8 | | |
| | Scott Highlander | 11P 7A | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |

TOTAL LABOR —

### TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |

TOTAL FREIGHT —

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |

TOTAL DISPOSAL

### EQUIPMENT

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| FRAC TANK | | | |
| Carbon unit (2) | | | |
| pickups (2) | | | |
| serv veh (2) | | | |
| office trailer | | | |
| Decon trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| Radios | | | |

TOTAL EQUIPMENT

### MATERIAL & PRODUCTS

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 5872 | 0.21 | 1233.12 |

TOTAL MAT. & PROD 1233.12

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 1233.12 |
| TRANSPORTATION | — |
| DISPOSAL | — |
| TAXES | |
| TOTAL AMOUNT | 1233.12 |

CWM SUPERVISOR: John L. Courtney

APPROVED: (CUSTOMER): [illegible]

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N 21109

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-628
Day and Date: Thursday January 2, 1992

CUSTOMER LOCATION: Pershing and Dahringer Rd Waukegan, IL 60085

PROJECT ACTIVITY: treating water mixing TAR w/ Flyash and Transportation and Disposal of material at Fort Wayne

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 Day | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| 50 KW Gen | | | |
| Decon trailer | | | |
| office trailer | | | |
| Carbon unit (2) | | | |
| RAC TANK | | | |
| 2 pickups | | | |
| 2 serv veh | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| radios | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 25,352 | 0.21 | 5,323.92 |
| Flyash | 23.4 T | (2 LDS) | |
| Lime Kiln Dust | 91.33 T | (3 LDS) | |
| | | TOTAL MAT. & PROD | 5323.92 |

SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pirch

## LABOR

| CODE | NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| | John Courtney | 9A | 11:30 | 16 | | |
| | Jerry Cross | 7A | | 16 | | |
| | Mike Mathis | 7A | | 16 | | |
| | Sherman Blanden | 7A | 3P | 8 | | |
| | Joe Jacob | 7A | 4P | 8.5 | | |
| | Mike Luketich | 3P | 3A | 12 | | |
| | Jim York | 3P | 11:30 | 8.5 | | |
| | John Bailey | 11P | 7A | 8 | | |
| | Scott Highlander | 11P | 7A | 8 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596197 | — | |
| | 1 | 0596198 | — | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596197 | 24617 | Solidified | 23 est | 214.50 | 4933.5 |
| 0596198 | 24618 | TAR (D018) | 23 est | 214.50 | 4933.5 |
| | | | | TOTAL DISPOSAL | 9,867.00 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 5323.93 |
| TRANSPORTATION | |
| DISPOSAL | 9867.00 |
| TAXES | |
| TOTAL AMOUNT | 15,190.92 |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 21110

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: FRIDAY January 3, 1992

CUSTOMER LOCATION: Pershing AND Dahringer Waukegan, IL 60085

PROJECT ACTIVITY: Treating water, mixing AND ~~tar~~ disposal of TAR material

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| D4H Dozer | | | |
| 50KW Gen | | | |
| Decon trailer | | | |
| office Trailer | | | |
| Carbon Unit (2) | | | |
| FRAC TANK | | | |
| 2 pickups | | | |
| 2 service veh | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc-Tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| WATER TO NSSD | 15,240 | 0.21 | 3200.40 |
| Flyash | 29.95T | (1LD) | |
| | | TOTAL MAT. & PROD | 3200.40 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| | John Courtney | 7A | 6P | 11 | | |
| | Jerry Cross | 10A | 6P | 8 | | |
| | Mike Mathis | 10A | 1:30P | 3.5 | | |
| | Sherman Blanden | 7A | 12P | 5 | | |
| | Joe Jacek | 7A | 6P | 10.5 | | |
| | Mike Luketich | 3P | 11P | 8 | | |
| | Jim York | 3P | 12:30 | 9.5 | | |
| | Scott Highlander | 11P | 7A | 8 | | |
| | John Bailey | ~~[illegible]~~ | — | — | | |
| | | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596199 | — | |
| " " | 1 | 0596200 | — | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596199 | 24619 | ~~[illegible]~~ | 23 est | 214.50 | 4933.5 |
| 0596200 | 24620 | ~~2~~ Solidified TAR (D018) | 23 est | " | 4933.5 |
| | | | | TOTAL DISPOSAL | 9867.5 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 3200.40 |
| TRANSPORTATION | |
| DISPOSAL | 9867 |
| TAXES | |
| TOTAL AMOUNT | 13,067.40 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

21111

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-878
Day and Date: SATURDAY January 4, 1992

CUSTOMER LOCATION: Pershing AVE Dahringer Waukegan IL 60085

PROJECT ACTIVITY: Treating water; mixing and Disposal of TAR material

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 9A 8:30P | 12.5 | | |
| | Jerry Cross | 7A 1:4P | 8.5 | | |
| | Mike Mathis | 7A 1:10A | 3.0 | | |
| | Sherman Blandin | 7A 7:30P | 11.5 | | |
| | Joe Daigle | 7A 1:4P | 4.5 | | |
| | Mike Lukitsch | 3P 1:11P | 8 | | |
| | Jim York | 3P 1:11P | 8 | | |
| | Scott Highlands | 11P 7A | 8 | | |
| | John Bailey | 11P 7A | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3900 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| D4H loader | | | |
| 50 KW Gen | | | |
| Decon trailer | | | |
| office trailer | | | |
| Tbox unit (2) | | | |
| FRAC TANK | | | |
| 2 pickups | | | |
| 2 serv vehs | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 24,175 | 0.21 | 5076.75 |
| Fly Ash Romeoville | 20.362T | (8LDS) | |
| Fly Ash Romeoville | 27.18T | (11LD) | |
| | | TOTAL MAT. & PROD | 5076.75 |

SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) [signature]

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596213 | — | |
| " | 1 | 0596214 | — | |
| " | 1 | 0596215 | — | |
| " | 1 | 0596216 | — | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596213 | 24621 | Soil Difficult | 24 cut | 214.50 | 5148.00 |
| 0596214 | 24638 | TAR | 23 cut | | 4933.50 |
| 0596215 | 24639 | (D018) | 24 cut | | 5148.00 |
| 0596216 | 24640 | | 23 cut | | 4933.50 |
| | | | | TOTAL DISPOSAL | 20,163.00 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 5076.75 |
| TRANSPORTATION | |
| DISPOSAL | 20,163.00 |
| TAXES | |
| TOTAL AMOUNT | 25,239.75 |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 21112

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Sunday January 5 1992
CUSTOMER LOCATION: Pershing and Dahringer Waukegan, IL 60085

PROJECT ACTIVITY: Treating water, mixing and Disposal of TAR material

### EQUIPMENT

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 EXCAV | 1 DAY | | |
| CAT 215 EXCAV | | | |
| IT 18 loader | | | |
| D4H Dozer | | | |
| 50 KW Gen | | | |
| Decon trailer | | | |
| offc trailer | | | |
| Arbin unit (2) | | | |
| FRAC TANK | | | |
| 2 pickups | | | |
| 2 serv veh | | | |
| 3" pump | | | |
| 2 light plts | | | |
| misc. Tools | | | |
| TOTAL EQUIPMENT | | | |

### MATERIAL & PRODUCTS

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | ~~18,794~~ 20995 | 0.21 | ~~3946.74~~ 4408.95 |
| TOTAL MAT. & PROD | | | ~~4408.95~~ ~~3946.74~~ |

### LABOR

| CODE | NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 9A / 4:30 | 9 | | |
| | Percy Cross | 7A / 4:30 | 9 | | |
| | Mike Mathis | 7A / 4:30 | 9 | | |
| | Sherman Blanden | 7A / 4:30 | 9 | | |
| | Joe Jacek | 7A / 4:30 | 9 | | |
| | Mike Luketich | 3P / 11P | 8 | | |
| | James York | 3P / 11P | 8 | | |
| | Scott Highlander | 11P / 8A | 9 | | |
| | John Bailey | 11P / 8A | 9 | | |
| | | TOTAL LABOR | | | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596217 | — | |
| " " | 1 | 0596218 | — | |
| USA | | | | |
| Wills TRK | 1 | 0596213 | | |
| TOTAL FREIGHT | | | | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596217 | 24641 | Solidified | 22 wt | 214.50 | 4719 |
| 0596218 | " | TAR | 22 wt | 214.50 | 4719 |
| (0596213) | 24621 | " | (24 wt) | (214.50) | (5148 |
| | | | | TOTAL DISPOSAL | 4290 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | 4408.9 |
| MATERIAL/PRODUCTS | ~~3946.74~~ |
| TRANSPORTATION | |
| DISPOSAL | 4296 |
| TAXES | |
| | 8698.95 / 8698.34 |
| TOTAL AMOUNT | [illegible] |

CWM SUPERVISOR: John L. Courtney (signature)

APPROVED: (CUSTOMER) (signature)

This Work Sheet when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26364

## DAILY WORK SHEET

Project Name Waukegan TAR Pit
Project Number 91-09-828
Day and Date Monday, January 6, 1992

CUSTOMER LOCATION Pershing and Dahringer Waukegan, IL 60085

PROJECT ACTIVITY treating water and Loading trucks for Disposal

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| 1S3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| D4H Dozer | | | |
| 50 KW Gen | | | |
| Decon trailer | | | |
| office Trailer | | | |
| Carbon Unit (2) | | | |
| FRAC Tank | | | |
| 2 pickups | | | |
| 2 serv. veh | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. Tools | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 29,139 | 0.21 | 6119.19 |
| | | TOTAL MAT. & PROD | 6119.19 |

CWM SUPERVISOR John L Courtney

APPROVED (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 6:30 | 11 | | |
| | Jerry Cross | 7A 6:30P | 11 | | |
| | Mike Mathis | 7A 6:30P | 11 | | |
| | Sherman Blanden | 7A 4P | 8.5 | | |
| | Joe Jacek | 7A 4P | 8.5 | | |
| | Mike Luketich | 3P 11P | 8 | | |
| | Jim York | 3P 11P | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0596219 | | |
| " | 1 | 0596196 | | |
| " | 1 | 0624151 | | |
| " | 1 | 0624152 | | |
| " | 1 | 0624153 | | |
| " | 1 | 0624154 | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0596219 | 24809 | Solidified | 25 est | 214.54 | 5362.- |
| 0596196 | 24810 | TAR | 22 est | " | 4719.- |
| 0624151 | 24811 | | 22 est | " | 4719.- |
| 0624152 | 24812 | | 25 est | " | 5362.5 |
| 0624153 | 24813 | | 24 est | " | 5148.00 |
| 0624154 | | | 24 est | " | 5148.00 |
| | | | | TOTAL DISPOSAL | 30,459 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 6119.19 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | 36,578.19 |
| TOTAL AMOUNT | 30,459.00 |

This Work Sheet when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 21113

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Tuesday January 7, 1992

CUSTOMER LOCATION: Pershing And Dahringer Waukegan IL 60085

PROJECT ACTIVITY: Treating water; Disposal of solidified material

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1DAY | | |
| IT18 Loader | | | |
| CAT215 excav | | | |
| D4H Dozer | | | |
| 50 KW Gen | | | |
| Off. Trailer | | | |
| Decon trailer | | | |
| carbon Units | | | |
| FRAC TANK | | | |
| 2 pickups | | | |
| 2 serv. vch | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water To NSSD | 22,219 | 0.21 | 4665.99 |
| | | TOTAL MAT. & PROD | 4665.99 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pirch

## LABOR

| CODE | NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 16:30 | 11 | | |
| | Jerry Cross | 7A 16:30 | 11 | | |
| | Mike Mathis | 7A 16:30 | 11 | | |
| | Shearman Blanden | 7A 5P | 10 | | |
| | Joe Jacek | 7A 5P | 10 | | |
| | Mike Luketich | 3P 1A | 10 | | |
| | Jim York | 3P 1A | 10 | | |
| | Scott Highlander | 11P 7A | 8 | | |
| | John Bailey | 11P 7A | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0624155 | | |
| " | " | 0624156 | | |
| " | " | 0624157 | | |
| " | " | 0624158 | | |
| " | " | 0624159 | | |
| " | " | 0624160 | | |
| " | " | 0624161 | | |
| " | " | 0624162 | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624155 | 24844 | Solidified | 23 est | 214.50 | 4933.50 |
| 0624156 | 24845 | TAR | 22 est | | 4719.00 |
| 0624157 | 24846 | | 24 est | | 5148.00 |
| 0624158 | 24847 | | 22 est | | 4719.00 |
| 0624159 | 24848 | | 23 est | | 4933.50 |
| 0624160 | 24849 | | 24 est | | 5148.00 |
| 0624161 | 24850 | | 24 est | | 5148.00 |
| 0624162 | 24851 | | 24 est | | 5148.00 |
| | | | | TOTAL DISPOSAL | 39,897 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 4665.99 |
| TRANSPORTATION | |
| DISPOSAL | 39,[illegible] |
| TAXES | |
| TOTAL AMOUNT | 44,562.99 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26365

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Wednesday January 8, 1992

CUSTOMER LOCATION: Pershing and Dohringer Waukegan, IL 60085

PROJECT ACTIVITY: treating water; solidifying and loading TAR material

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| IT 18 loader | | | |
| CAT 215 excav | | | |
| D4H Dozer | | | |
| 50KW Gen | | | |
| office Trailer | | | |
| Decon Trailer | | | |
| Carbon Units | | | |
| FRAC Tank | | | |
| 2 pickups | | | |
| 2 serv. veh | | | |
| 3" pump | | | |
| 2 light plts | | | |
| misc. tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| WATER TO NSSD | 6736 | 0.21 | 1414.56 |
| 1 LD FlyAsh | 22.61T | | |
| | | TOTAL MAT. & PROD | 1414.56 |

CWM SUPERVISOR: John L Courtney

APPROVED (CUSTOMER): Jerry Pisk

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 8A 6:30 | 10 | | |
| | Jerry Cross | 7A 6:30 | 11 | | |
| | Mike Mathis | 7A 6:30 | 11 | | |
| | Sherman Blondin | 7A 5P | 9 | | |
| | Joe Jucek | 7A 5P | 9 | | |
| | Mike Luketich | 10A 11P | 13 | | |
| | Jim York | 10A 11P | 13 | | |
| | Scott Highlander | 11P 7A | 8 | | |
| | John Bailey | 11P 7A | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0624163 | — | |
| " | " | 0624164 | — | |
| " | " | 0624165 | — | |
| " | " | 0624166 | — | |
| " | " | 0624167 | — | |
| " | " | 0624168 | — | |
| " | " | 0624169 | — | |
| " | " | 0624170 | — | |
| " | " | 0624171 | — | |
| " | " | 0624172 | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624163 | 24852 | solidified | 22 est | 214.56 | 4719 |
| 0624164 | 24853 | TAR | 24 est | " | 5148 |
| 0624165 | 24854 | | 24 est | " | 5148 |
| 0624166 | 24855 | | 22 est | " | 4719 |
| 0624167 | 24922 | | 23 est | " | 4933.5 |
| 0624168 | 24923 | | 23 est | " | 4933.5 |
| 0624169 | 24924 | | 24 est | " | 5148 |
| 0624170 | 24925 | | 22 est | " | 4719 |
| 0624171 | 24926 | | 24 est | " | 5148 |
| 0624172 | 24927 | | 23 est | " | 4933.5 |
| | | | | TOTAL DISPOSAL | 49,549 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 1414.56 |
| TRANSPORTATION | |
| DISPOSAL | 49,549.56 |
| TAXES | |
| TOTAL AMOUNT | 50,964.06 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26366

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Thursday, January 9, 1992

CUSTOMER LOCATION: Pershing and Dahringer Waukegan, IL 60085

PROJECT ACTIVITY: treating Water; Solidifying and Disposal of TAR Material

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| IT 18 loader | | | |
| CAT 215 excav | | | |
| D4H Dozer | | | |
| 50 KW Gen | | | |
| Office Trailer | | | |
| Decon Trailer | | | |
| FRAC Tank | | | |
| 2 Carbon Units | | | |
| 2 pickups | | | |
| 2 serv. veh | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. Tools | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| NSSD | 34,500 | 0.21 | 7245.00 |
| FLYASH | 46.89 T | 2 LDS | |
| | | TOTAL MAT. & PROD | 7245.00 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pirl

## LABOR

| CODE | NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| | John Courtney | 7A | 5P | 9.5 | | |
| | Jerry Cross | 7A | 6:30 | 11 | | |
| | Mike Muthis | 7A | 4P | 8.5 | | |
| | Sherman Blanden | 7A | 4P | 8.5 | | |
| | Joe Jacek | 7A | 4P | 8.5 | | |
| | Mike Luketich | 3P | 11P | 8 | | |
| | Jim York | 3P | 11P | 8 | | |
| | Scott Highlander | 9A | 7A | 12 | | |
| | John Bailey | 11P | 7A | 8 | | |
| | | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0624173 | — | |
| " " | " | 0624174 | — | |
| " " | " | 0624175 | — | |
| " " | " | 0596220 | — | |
| " " | " | 0596221 | — | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624173 | 24928 | Solidified | 24 | 214.50 | 5148.00 |
| 0624174 | 24929 | TAR | 23 | | 4933.50 |
| 0624175 | 24930 | (D018) | 23 | | 4933.50 |
| 0596220 | 24931 | | 24 | | 5148.00 |
| 0596221 | 24932 | | 24 | | 5148.00 |
| | | | | TOTAL DISPOSAL | 25,311 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 7245.00 |
| TRANSPORTATION | |
| DISPOSAL | 25,311.00 |
| TAXES | |
| TOTAL AMOUNT | 32,556.00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26367

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Friday, January 10, 1992

CUSTOMER LOCATION: Pershing and Dahringer Waukegan IL 60085

PROJECT ACTIVITY: treating water, solidifying and Disposal of TAR material

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| D4 Dozer | | | |
| 2 carbon units | | | |
| 2 pickups | | | |
| 2 serv. veh | | | |
| Decon trailer | | | |
| Tile trailer | | | |
| 50 KW Gen | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. Tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water To NSSD | 21,400 | 0.21 | 4494.00 |
| | | TOTAL MAT. & PROD | 4494.00 |

CWM SUPERVISOR: John L Coustins

APPROVED: (CUSTOMER) Jerry Pinch

## LABOR

| CODE | NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| | John Coustins | 9A | 6:30P | 9 | | |
| | Jerry Cross | 7A | 11P | 11 | | |
| | Sherman Blanden | 7A | 11A | 4 | | |
| | Mike Muthis | 7A | 7:30P | 12 | | |
| | Joe Jacek | 7A | 7P | 11.5 | | |
| | Mike Luketich | 8A | 5:30P | 9.5 | | |
| | Jim York | 7A | 4:30 | 9 | | |
| | Scott Highlander | — | — | | | |
| | John Bailey | — | — | | | |
| | | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0624276 | — | |
| " | 1 | 0624277 | — | |
| " | 1 | 0624278 | — | |
| " | 1 | 0624279 | | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624276 | 24933 | solidified | 23 est | 214.50 | 4933.50 |
| 0624277 | 24934 | TAR | 25 est | | 5362.50 |
| 0624278 | 24935 | (D018) | 24 est | | 5148.00 |
| 0624279 | 24936 | | 24 est | | 5148.00 |
| | | | | TOTAL DISPOSAL | 20,592 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 4494.00 |
| TRANSPORTATION | |
| DISPOSAL | 20,592.00 |
| TAXES | |
| TOTAL AMOUNT | 25,086.00 |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26370

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: SATURDAY, JANUARY 11, 1992
CUSTOMER LOCATION: #1 Dehringer Road
Waukegan, IL 60085

PROJECT ACTIVITY: Treating water to NSSD, mixing material with Flyash and putting material in Roll off

| JIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| CAT 215 excav. | | | |
| IT 18 loader | | | |
| D4 Dozer | | | |
| 2 carbon unit | | | |
| 2 serv. with | | | |
| Decon trailer | | | |
| the Trailer | | | |
| 50 KW Gen | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. Tools | | | |
| 2 pickups | | | |
| | TOTAL EQUIPMENT | | |

| ERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 31,301 | 0.21 | 6573.21 |
| | | TOTAL MAT. & PROD | 6573.21 |

CWM ERVISOR: [signature]

APPROVED (CUSTOMER): [signature]

### LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | Joe Jerek | 7A/1430 | 7 | | |
| | Scott Highlander | 0700/2000 | 11.5 | | |
| | Jim Yerk | 0700/1630 | 9 | | |
| | Mike Zuketich | 0700/1630 | 9 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | — |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 6,573 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 6573 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26369

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Monday, January 13, 1992

CUSTOMER LOCATION: #1 Dahringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Treating water, solidifying and Disposal of TAR Material

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | Jerry Cross | 0700/0600 | 10.5 | | |
| | Sherman Blanden | 0700/0600 | 10.5 | | |
| | Joe Geier | 0700/0600 | 10.5 | | |
| | Josh York | 1100/0800 | 9 | | |
| | Mike Lukytich | 1100/0800 | 9 | | |
| | Scott Hafelinger | 1100/0800 | 9 | | |
| | John Bailey | 1100/0800 | 9 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| D4 Dozer | | | |
| 50KW Gen | | | |
| 2-carbon units | | | |
| 2-pickups | | | |
| 1-serv. veh | | | |
| Decon trailer | | | |
| offi. trailer | | | |
| 3" pump | | | |
| 2 light plants | | | |
| misc. tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 38,917 | 0.21 | 8172 57 |
| FLYASH | 20.75 T | ILD | |
| | | TOTAL MAT. & PROD | 8172 57 |

TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0624280 | — | |
| " | 1 | 0624281 | — | |
| " | 1 | 0624282 | — | |
| | | | | |
| | | | TOTAL FREIGHT | |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624280 | 24937 | solidified | 22 cyd | 214.50 | 4719 00 |
| 0624281 | 24938 | cold | 24 cyd | | 5148 00 |
| 0624282 | 24939 | TAR (D018) | 24 cyd | | 5148 00 |
| | | | | TOTAL DISPOSAL | 15,015 00 |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 8172 57 |
| TRANSPORTATION | |
| DISPOSAL | 15015 00 |
| TAXES | |
| TOTAL AMOUNT | 23,187 57 |

CWM SUPERVISOR: John L. Cornbury

APPROVED (CUSTOMER): Jerry Pavlo

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26368

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Tuesday, January 14, 1992

CUSTOMER LOCATION: #1 Dahringer Rd Waukegan, IL 60085

PROJECT ACTIVITY: Treating water; Disposal of TAR material At Land Fill

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 8 | | | |
| D4H Dozer | | | |
| 50KW GEN | | | |
| 2 light Plants | | | |
| 2 pickups | | | |
| serv. vch. | | | |
| Decon trailer | | | |
| office trailer | | | |
| misc. Tools | | | |
| 3" pump | | | |
| 2 carbon units | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| water to NSSD | 32,175 | 0.21 | 6756.75 |
| | | TOTAL MAT. & PROD | 6756.75 |

CWM SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) Jerry Pinkin

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 1200 / 1700 | 5 | | |
| | Jerry Cross | 0700 / 1930 | 12 | | |
| | Sherman Blanchard | 0700 / 1930 | 12 | | |
| | Mike Luketich | 1100 / 2300 | 12 | | |
| | Joe Jacek | 0700 / 1930 | 12 | | |
| | Jim York | 1100 / 2300 | 12 | | |
| | John Bailey | 0400 / 1200 | 8 | | |
| | Scott High Kinder | 2300 / 0700 | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills Trk | 1 | 0624283 | — | |
| " | 1 | 0624284 | — | |
| " | 1 | 0624285 | — | |
| " | 1 | 0624286 | — | |
| " | 1 | 0624287 | — | |
| " | 1 | 0624288 | — | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624283 | 25337 | Solidified | 24 est | 214.50 | 5148.00 |
| 0624284 | 25338 | TAR | 22 est | | 4719.00 |
| 0624285 | 25339 | (D016) | 22 est | | 4719.00 |
| 0624286 | 25340 | | 22 est | | 4719.00 |
| 0624287 | 25341 | | 22 est | | 4719.00 |
| 0624288 | 25342 | | 21 est | | 4504.50 |
| | | | | TOTAL DISPOSAL | 28,528.50 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 6756.75 |
| TRANSPORTATION | |
| DISPOSAL | 28,5[illegible].5 |
| TAXES | |
| TOTAL AMOUNT | 35,285.25 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26371

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Wednesday, January 15, 1992

CUSTOMER LOCATION: #1 Dahringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Treating water; Transport and Disposal of Tar Material

### LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A 18:30P | 13 | | |
| | J. Cross | 7A 14:30 | 9 | | |
| | M. Mullins | 7A 19:00P | 13.5 | | |
| | S. Bowden | 7A 18:30 | 13 | | |
| | J. Jacek | 7A 18:30 | 13 | | |
| | M. Zukowski | 11A 9P | 10 | | |
| | J. York | 11A 9P | 10 | | |
| | J. Bailey | 11A 7A | 8 | | |
| | S. Highlander | 11A 7A | 8 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills Trk | 1 | 0624289 | — | |
| " | 1 | 0624290 | — | |
| " | 1 | 0624291 | — | |
| " | 1 | 0624292 | — | |
| " | 1 | 0624293 | — | |
| " | 1 | 0624294 | — | |
| | | | TOTAL FREIGHT | |

### EQUIPMENT

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excat | 1 DAY | | |
| CAT 215 excav. | | | |
| IT 18 loader | | | |
| D4 Dozer | | | |
| 50 KW GEN | | | |
| 2 light Plants | | | |
| 2 pickups | | | |
| 2 serv. trks | | | |
| Decon trailer | | | |
| office trailer | | | |
| 2 carbon units | | | |
| misc. Tools | | | |
| 3" pump | | | |
| | | TOTAL EQUIPMENT | |

### MATERIAL & PRODUCTS

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water to NSSD | 15,435 | 0.21 | 3241.35 |
| | | TOTAL MAT. & PROD | 3241.35 |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624289 | 25367 | | 24 cyd | 214.50 | 5148.00 |
| 0624290 | 25368 | | 23 cyd | | 4933.50 |
| 0624291 | 25369 | | 22 cyd | | 4719.00 |
| 0624292 | 25370 | | 23 cyd | | 4933.50 |
| 0624293 | 25371 | | 24 cyd | | 5148.00 |
| 0624294 | 25372 | | 22 cyd | | 4719.00 |
| | | | | TOTAL DISPOSAL | 29,600.50 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 3241.35 |
| TRANSPORTATION | |
| DISPOSAL | 29,600.50 |
| TAXES | |
| TOTAL AMOUNT | 32,841.85 |

CWM SUPERVISOR: John J. Courtney

APPROVED (CUSTOMER): Jerry Pirila

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

... 26372

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Thursday, January 16, 1992

CUSTOMER LOCATION: #1 Dahringer Rd. Waukegan, IL 60085

PROJECT ACTIVITY: Decoming Rolloffs, Transportation and Disposal of material

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| D4 Dozer | | | |
| 50 KW GEN. | | | |
| 2 condom units | | | |
| 2 pickups | | | |
| 2 FRAC TANKS | | | |
| 2 serv veh. | | | |
| Decon trailer | | | |
| off. trailer | | | |
| 3" pump | | | |
| misc. Tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | |

CWM SUPERVISOR: John Courtney

APPROVED: (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | John Courtney | 7A 12P | 7 | | |
| | J. Cross | 7:30A 4P | 8 | | |
| | M. Mathis | 7:30A 11:30 | 16 | | |
| | S. Blanden | 7A 4P | 8.5 | | |
| | J. Jacek | 7A 16:30 | 11 | | |
| | M. Lukatich | 11A 11P | 11 | | |
| | J. York | 11A 11:30P | 12 | | |
| | Scott Highlander | 11P 7P | 8 | | |
| | J. Bailey | 4A 12P | 8 | | |
| | Jerry Craft | 1P 15:30 | 5.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0624337 | — | |
| " | 1 | 0624336 | — | |
| " | 1 | 0624338 | — | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624337 | 25422 | solidified | 24 est | 214.52 | 5148.5 |
| 0624336 | 25423 | TAR | 23 est | " | 4933.5 |
| 0624338 | 25424 | DO18 | 23 est | " | 4933.5 |
| | | | | TOTAL DISPOSAL | 15,015 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | 15,01 00 |
| TAXES | |
| TOTAL AMOUNT | 15,015.00 |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26358

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-69-828
Day and Date: Friday, January 17, 1992
CUSTOMER LOCATION: #1 Dahringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Deconing colloffs, sloping sides of Pit and securing clay source for berms

| JIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 exCAV | 1 DAY | | |
| CAT 215 exCAV | | | |
| IT 18 loader | | | |
| D4 Dozer | | | |
| 50 KW Gener. | | | |
| 2 carbon units | | | |
| 2 pickups | | | |
| serv. veh. | | | |
| FRAC Tank | | | |
| Decon trailer | | | |
| offc. Trailer | | | |
| 3" pump | | | |
| misc. Tools | | | |
| | | TOTAL EQUIPMENT | |

| ERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | — |

CWM ERVISOR: John L Courtney

APPROVED (CUSTOMER): Jerry Pirk

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A 12P | 7 | | |
| | J. Cross | 7A 1700 | 9.5 | | |
| | M. Mathis | 7A 5P | 9.5 | | |
| | S. Blanden | 7A 6:30 | 11 | | |
| | J. Jacek | 7A 5P | 9.5 | | |
| | M. Luketich | travel | 7 | | |
| | J. York | Travel | 1.5 | | |
| | S. Highlander | 4A 1230P | 9.5 | | |
| | J. Bailey | 4A 12P | 9.5 | | |
| | J. Croft | 7A 5:30P | 10 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

... 26357

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-69-828
Day and Date: Saturday, January 11, 1992

CUSTOMER LOCATION: #1 Dahringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: decoming rolloffs, sloping sites of TAR Pit

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| CAT 215 excav | | | |
| IT 18 loader | | | |
| D4 Dozer | | | |
| 50 KW Gen | | | |
| 2 cooler units | | | |
| 2 pickups | | | |
| serv. veh | | | |
| FRAC TANK | | | |
| Decon trailer | | | |
| office trailer | | | |
| 3" pump | | | |
| misc tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | — |

CWM SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| | J. Courtney | | — | | | |
| | J. Crose | 7 | 19:30 | 2.5 | | |
| | M. Mathys | 7 | 19:30 | 2.5 | | |
| | S. Blanden | 7 | 12:30 | 5.5 | | |
| | J. Jacek | 7 | 12:30 | 5.5 | | |
| | J. Bailey | | — | | | |
| | J. Craft | 7A | 12:30 | 5.5 | | |
| | | | / | | | |
| | | | / | | | |
| | | | / | | | |
| | | | / | | | |
| | | | / | | | |
| | | | / | | | |
| | | | / | | | |
| | | | / | | | |
| | | | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 26359

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91C2-828
Day and Date: Monday, January 20, 1992

CUSTOMER LOCATION: 41 Dunbringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Covering collects, Sipping pit site, Digging Anchor trench

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A 15:30P | 10 | | |
| | J. Cross | 7A 5P | 9.5 | | |
| | M. Mathys | 7A 5P | 9.5 | | |
| | S. Blanchan | 7A 5P | 9.5 | | |
| | J. Craft | 7A 5P | 9.5 | | |
| | J. Bailey | 7A 5P | 9.5 | | |
| | J. York | 7A 5P | 9.5 | | |
| | S. Highlandi | 7A 5P | 9.5 | | |
| | J. McIntyre | 10A 5P | 7.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS 3400 excav | 1 DAY | | |
| IT 18 loader | | | |
| CAT 225 excav | | | |
| D4 Dozer | | | |
| 3500 Trencher | | | |
| 50 kw Gen | | | |
| 2 water units | | | |
| pickups | | | |
| 2 serv-tech | | | |
| FRAC TANK | | | |
| Bolan trailer | | | |
| office trailer | | | |
| 3" pump | | | |
| misc. tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | — |

| TRANSPORTATION CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

| DISPOSAL MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

SUPERVISOR: John A. Courtney

APPROVED: (CUSTOMER) Gary Pinto

| SUMMARY | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | — |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

№ 26360

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91209-828
Day and Date: Tuesday, January 27, 1992

CUSTOMER LOCATION: #1 Duhringer Rd
Waukegan IL 60085

PROJECT ACTIVITY: Decoring pallets, digging anchor trench, Asbestos lagoon, disposal of solidified TAR PIT LANDFILL

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A 15:30P | 8.0 | | |
| | J. Cross | 7A 15P | 9.5 | | |
| | M. Mathis | 7A 15P | 9.5 | | |
| | S. Blazer | 7A 15P | 9.5 | | |
| | J. Craft | 7A 15P | 9.5 | | |
| | J. McIntyre | 7A 15P | 9.5 | | |
| | S. Highlander | 7A 15P | 9.5 | | |
| | J. Bailey | 7A 15P | 9.5 | | |
| | J. York | 7A 15P | 9.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1 DAY | | |
| IT 18 loader | | | |
| CAT 215 excav | | | |
| D4 Dozer | | | |
| 3500 trencher | | | |
| 50 KW Gen | | | |
| 2 carbon units | | | |
| 2 pickups | | | |
| 2 serv. veh | | | |
| Fore tank | | | |
| Decon trailer | | | |
| office trailer | | | |
| 3" pump | | | |
| misc. tools | | | |
| light plants | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| National Seal mobilization | | | |
| | | TOTAL MAT. & PROD | — |

SUPERVISOR: [signature]

APPROVED (CUSTOMER): [signature]

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills trucking | 1 | 0624339 | — | |
| " | 1 | 0624341 | — | |
| " | 1 | 0624327 | — | |
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624339 | 25976 | Solidified | 22 cat | 214.50 | 4719 |
| 0624341 | 25977 | TAR | 21 cat | | 4504.55 |
| 0624327 | 25991 | D018 | 21 cat | | 4504.55 |
| | | | | TOTAL DISPOSAL | 13,728 |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | 13,728 |
| TAXES | |
| TOTAL AMOUNT | 13,728.00 |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

26361

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Wednesday January 22, 1992
CUSTOMER LOCATION: #1 Dehringer Rd. Waukegan IL 60085

PROJECT ACTIVITY: Decoming, mill off, digging anchor trench, decoming LS3400 Natural seal in for those but had to demob them

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 excav | 1DAY | | |
| IT 18 loader | | | |
| CAT 215 excav | | | |
| D4 Dozer | | | |
| ~~350 ...~~ 50KW gen | | | |
| 2 carbon units | | | |
| 2 pickups | | | |
| 2 serv vehs | | | |
| frac tank | | | |
| decon trailer | | | |
| office trailer | | | |
| 3" pump | | | |
| misc tools | | | |
| Case 580 backhoe | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | — |

SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A/5P | 8.5 | | |
| | J. Cross | 7A/5P | 9.5 | | |
| | M. Mathis | 7A/5P | 9.5 | | |
| | S. Blender | 7A/5P | 9.5 | | |
| | J. Craft | 7A/5P | 9.5 | | |
| | J. Virk | 7A/5P | 9.5 | | |
| | C. Highlander | 7A/5P | 9.5 | | |
| | J. Bailey | 7A/5P | 9.5 | | |
| | J. McIntyre | 7A/5P | 9.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | — |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 26362

## DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: Thursday, January 23, 1992

CUSTOMER LOCATION: #1 Dukringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: dewater pit with Air case 580 loader and Total National Seal to Demob

### LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Lawrence | 7A 5P | 9.5 | | |
| | J. Cross | 7A 5P | 9.5 | | |
| | M. Mathys | 7A 5P | 9.5 | | |
| | S. Blandon | 7A 5P | 9.5 | | |
| | J. Craft | 7A 5P | 9.5 | | |
| | J. McIntyre | 7A 5P | 9.5 | | |
| | J. Bailey | 7A 5P | 9.5 | | |
| | J. Park | 7A 5P | 9.5 | | |
| | Scott Highlander | 7A 5P | 9.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

### TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | TOTAL DISPOSAL | | |

### EQUIPMENT

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| LS3400 EXAV | 1 Day | | |
| IT 18 loader | | | |
| CAT 215 EXCAV | | | |
| D4 Dozer | | | |
| 50 KW GEN | | | |
| 2 Vacuum units | | | |
| 2 pickups | | | |
| 1 service truck | | | |
| CASE 580 backhoe | offsite | | |
| FRAC TANK | | | |
| Decon trailer | | | |
| office trailer | | | |
| 3" pump | | | |
| misc. Tools | | | |
| | | TOTAL EQUIPMENT | |

### MATERIAL & PRODUCTS

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| National Seal | Demobilization | | |
| water treated | 15,172 | 0.21 | 3186.12 |
| in FRAC tank | | | |
| to be put back | | | |
| on lines | | | |
| | | TOTAL MAT. & PROD | 3186.12 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 3186.12 |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 3186.12 |

SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

№ 26363

DAILY WORK SHEET

Project Name: Waukegan TAR PIT
Project Number: 91-09-828
Day and Date: FRIDAY, January 24, 1992

CUSTOMER LOCATION: #1 Dahringer Rd
Waukegan IL 60085

PROJECT ACTIVITY: decoming rolloffs and LS3400, continue placing soil on site slopes, WMI of Lake County picked up 1 rolloff 20 cy

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 loader | 1 DAY | | |
| CAT 215 excav | | | |
| D4 Dozer | | | |
| 50 KW Gen | | | |
| 2 carbon unit | | | |
| 2 pickups | | | |
| 2 serv. veh | | | |
| RAC tank | | | |
| Decon trailer | | | |
| offc trailer | | | |
| 3" pump | | | |
| misc. Tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | — |

SUPERVISOR: John L. Courtney

APPROVED: (CUSTOMER) [signature]

CODE

LABOR

| NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|
| J. Courtney | 7A / 4P | 8.5 | | |
| J. Cross | 7A / 12P | | | |
| M. Mathis | 7A / 5P | 9.5 | | |
| S. Blandin | 7A / 5P | 9.5 | | |
| J. Cruft | 7A / 5P | 9.5 | | |
| J. McIntyre | 7A / 12P | 5 | | |
| J. Bailey | 7A / 5P | 9.5 | | |
| J. York | 7A / 5P | 9.5 | | |
| S. Highlander | 7A / 5P | 9.5 | | |
| | / | | | |
| | / | | | |
| | / | | | |
| | / | | | |
| | / | | | |
| | / | | | |
| | | | TOTAL LABOR | |

TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills TRK | 1 | 0624326 | | |
| " | 1 | 0624328 | | |
| | | | TOTAL FREIGHT | |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624326 | 25638 | Solidified | 24 ent | 214.50 | 5148.00 |
| 0624328 | 25638 | Coal TAR (D018) | 24 ent | " | 5148.00 |
| | | | | TOTAL DISPOSAL | 10,296.00 |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | / |
| TRANSPORTATION | |
| DISPOSAL | 10,296.00 |
| TAXES | |
| TOTAL AMOUNT | 10,296.00 |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No 25391

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Saturday, January 25, 1992
CUSTOMER LOCATION: [illegible] Dahringer Rd Waukegan IL 60085

PROJECT ACTIVITY: dewiring rolloffs, Lugar boxes and Calciner unit; [illegible]
~~[illegible]~~

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 loader | 1 DAY | | |
| CAT 215 excavator | ↓ | | |
| D9 Dozer | | | |
| 50 KW Gen | | | |
| 2 Calciner units | | | |
| 2 pickups | | | |
| [illegible] | | | |
| Frac Tank | | | |
| Decon trailer | | | |
| Off. trailer | | | |
| 3" pump | | | |
| misc. Tools | | | |
| | | TOTAL EQUIPMENT | — |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | TOTAL MAT. & PROD | |

SUPERVISOR [signature]
APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | M. Manthey | 7A / 12 | 5 | | |
| | J. Craft | 7A / 12 | 5 | | |
| | J. York | 7A / 12 | 5 | | |
| | S. Highlander | 7A / 12 | 5 | | |
| | | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | — |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

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CWM ENRAD 102

# Chemical Waste Management, Inc.

*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25390

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-028
Day and Date: Monday, January 27, 1992

CUSTOMER LOCATION: 21 Dubringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Remove rubble, National Seal onsite, Amber Sunday night, Luke Canady pickup 1 bulldozer

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | G. Conway | 7A 4P | 8.5 | | |
| | J. Cross | 7A 12:30P | 7 | | |
| | M. Lintz | 7A 6P | 10.5 | | |
| | S. Blanden | 7A 4P | 8.5 | | |
| | J. Cuff | 7A 6P | 10.5 | | |
| | J. McIntyre | 7A 2P | 7 | | |
| | J. Yerks | 7A 6P | 10.5 | | |
| | J. Carey | 7A 6P | 10.5 | | |
| | J. Highlander | 7A 6P | 10.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 loader | 1 DAY | | |
| CAT 215 excav | | | |
| D4 dozer | | | |
| 50KW GEN | | | |
| 2 carbon units | | | |
| 2 pickups | | | |
| 1 semi truck | | | |
| FRAC tank | | | |
| Decon trailer | | | |
| Off. trailer | | | |
| 3" pump | | | |
| misc. tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| National Seal onsite | | | |
| | | TOTAL MAT. & PROD | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 25392

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-89-828
Day and Date: Tuesday, January 28, 1992

CUSTOMER LOCATION: #1 Dahringer Road Waukegan IL 60085

PROJECT ACTIVITY: Cleaning rolloffs; National Seal placing liner down

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 loader | 1 Day | | |
| CAT 215 excav. | | | |
| D4 Dozer | | | |
| 50 KW Gen | | | |
| 2 carbon units | | | |
| 2 pickups | | | |
| 1 service | | | |
| Frac Tank | | | |
| Decon Trailer | | | |
| office trailer | | | |
| 3" pump | | | |
| mac-tool | | | |
| 4 light plants | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| National Seal Co. onsite | | | |
| | | TOTAL MAT. & PROD | |

CODE

### LABOR

| NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|
| J. Courtney | 7A 18:00 | 8.5 | | |
| J. Cross | 1A 18:00 | 9.5 | | |
| M. Mathis | 7A 15:30 | 10 | | |
| S. Blanden | 7A 15:30 | 10 | | |
| J. McIntyre | 7A 16:00 | 9.0 | | |
| J. Park | 7A 15:30 | 10 | | |
| J. Bailey | 7A 15:30 | 10 | | |
| S. Highlander | 7A 15:30 | 10 | | |
| J. Craft | 7A 15:30 | 10 | | |
| | / | | | |
| | / | | | |
| | / | | | |
| | / | | | |
| | / | | | |
| | / | | | |
| | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

C... ...RVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 25955

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 90-09-878
Day and Date: Wednesday, January 29 1992

CUSTOMER LOCATION: 41 Wilmarsh Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Decanting collects; Sampling water into 1 liter jars; Pit; 2 Frac tank Decanted

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Cardary | 7A 14P | 8.5 | | |
| | J. Crosse | 7A 15P | 9.5 | | |
| | M. Mathis | 7A 15P | 9.5 | | |
| | S. Glenden | 7A 15P | 9.5 | | |
| | J. Craft | 7A 15P | 9.5 | | |
| | J. McIntyre | 7A 15P | 9.5 | | |
| | J. York | 7A 15P | 9.5 | | |
| | S. Highlander | 7A 15P | 9.5 | | |
| | J. Bailey | 7A 15P | 9.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 loader | | | |
| CAT 215 excav | | | |
| D4 Dozer | | | |
| 5 KW GEN | | | |
| 1 carbon unit | | | |
| 2 pickups | | | |
| 1 serv veh | | | |
| Frac Tank | | | |
| Decon trailer | | | |
| Office trailer | | | |
| 3" Pump | | | |
| Misc-tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Natural Soil | | | |
| Bentonite | | | |
| | | TOTAL MAT. & PROD | |

### TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | — |

SUPERVISOR: [signature]

APPROVED (CUSTOMER): [signature]

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

# Chemical Waste Management, Inc.

*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 25956

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit Site
Project Number: 91-29-828
Day and Date: Thursday, January 30, 1992

CUSTOMER LOCATION: #1 Dokrovich Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Digging roll off; moving sand bags for beginning of berm installation; loading stakes and wire; [illegible] to go back to AREIP

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A 1 4P | 8.5 | | |
| | M. Cross | 7A 1 | | | |
| | M. Mathis | 7A 1 | | | |
| | S. Blandin | 7A 1 | | | |
| | J. Craft | 7A 1 | | | |
| | J. Nicturuce | 7A 1 | | | |
| | M. Kelly | 7A 1 | | | |
| | M. Yiff | 7A 1 | | | |
| | S. Highlander | 7A 1 | | | |
| | | | | TOTAL LABOR | — |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| ITR loader | 1 DAY | | |
| CAT 215 excav | | | |
| D4 Dozer | | | |
| 50 Kw Gen | | | |
| 1 condom unit - (will be closed 1/31/92) | | | |
| 2 pickups | | | |
| 1 serv veh | | | |
| 2 gen trailer | | | |
| OFFI-trailer | | | |
| misc-tools | | | |
| | | TOTAL EQUIPMENT | |

| TRANSPORTATION CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

| DISPOSAL MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| HDPE LINER INSTALL | 28'650 | 1.27 sq ft | 36385.50 |
| (completed on 1/24/92) | | | |
| | | | 36385.50 |
| | | TOTAL MAT. & PROD | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 36'385.50 |
| TRANSPORTATION | — |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | 36385.50 |

SUPERVISOR: [signature]

APPROVED: (CUSTOMER)

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 25957

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-09-828
Day and Date: Friday, January 31, 1992

CUSTOMER LOCATION: #1 Duhringer Rd Waukegan, IL 60085

PROJECT ACTIVITY: Deconing Roll offs; building berms at TAR Pit. Clay being hauled in

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 loader | | | |
| CAT 215 excav | | | |
| D4 Dozer | | | |
| 50 KW Gen | | | |
| 1-carbon unit (Recorded 1/31/92) | | | |
| 2 pickups | | | |
| 1 serv veh | | | |
| econ trailer | | | |
| offc. trailer | | | |
| misc. tools | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| CPS On site for 2nd Carbon Unit | | | |
| | | TOTAL MAT. & PROD | |

SUPERVISOR: John L Courtney

APPROVED: (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A 1 4P | 4P | 8.5 | |
| | J. Cross | 7A 1 5P | 9.5 | | |
| | M. Mathis | 7A 1 11 | 4 | | |
| | S. Blanden | 7A 1 5P | 9.5 | | |
| | J. Craft | 7A 1 11 | 4 | | |
| | J. McIntyre | 7A 1 5P | 9.5 | | |
| | J. Bailey | 7A 1 5P | 9.5 | | |
| | J. York | 7A 1 5P | 9.5 | | |
| | S. Highlander | 7A 1 5P | 9.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | — |
| | | | | TOTAL DISPOSAL | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N- 25389

## DAILY WORK SHEET

Project Name Waukegan TAR PIT
Project Number 91-09-828
Day and Date SATURDAY February 1, 1992

CUSTOMER LOCATION #1 [illegible] Rd
Waukegan, IL 60085

PROJECT ACTIVITY Decaying pilletts, building berm Around pit

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 loader | 1 DAY | | |
| CAT 215 [illegible] | ↓ | | |
| D4 dozer | ↓ | | |
| Compressor (2 day) | ↓ | | |
| misc. tools | ↓ | | |
| 2 pickups | ↓ | | |
| 1 serv veh | ↓ | | |
| [illegible] Trailer | ↓ | | |
| Decon Trailer | ↓ | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | TOTAL MAT. & PROD | |

SUPERVISOR [signature]

APPROVED:
(CUSTOMER) [signature]

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | — / | | | |
| | J. Cross | 7A / 15P | 9.5 | | |
| | S. Blanden | 7A / 15P | } | | |
| | J. McIntyre | 7A / 15P | } | | |
| | J. York | 7A / 15P | } | | |
| | S. Highlander | 7A / 15P | } | | |
| | | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | — |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | — |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25958

## DAILY WORK SHEET

Project Name Waukegan TAR Pit
Project Number 91-09-828
Day and Date Monday February 3 1992

CUSTOMER LOCATION 41 Dohringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY Decoming rolloffs, working on berm around TAR Pit

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 Loader | 1 Day | | |
| CAT 215 excav | | | |
| D4 Dozer | | | |
| misc. Tools | | | |
| 2 pickups | | | |
| 1 serv. veh | | | |
| Off. Trailer | | | |
| Decontrailer | | | |
| | TOTAL EQUIPMENT | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | — |

CWM SUPERVISOR [signature]

APPROVED: (CUSTOMER) [signature]

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A 14P | 8.5 | | |
| | J. Cross | 7A 15P | 9.5 | | |
| | M. Mathys | 7A 15P | 9.5 | | |
| | S. Blanden | 7A 14P | 8.5 | | |
| | J. Croft | 7A 15P | 9.5 | | |
| | J. McIntyre | 7A 15P | 9.5 | | |
| | J. Bailey | 7A 15P | 9.5 | | |
| | J. York | 7A 15P | 9.5 | | |
| | S. Highlander | 7A 15P | 9.5 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | — |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | — |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | — |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | — |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

# Chemical Waste Management, Inc.

*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

№ 25959

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91F09-028
Day and Date: Tuesday February 4, 1992
CUSTOMER LOCATION: #1 Dahringer Rd Waukegan, IL 60085

PROJECT ACTIVITY: Decon equipment; completed ~~[illegible]~~ bermed TAR Pit; Transportation and Disposal of TAR Pit material to ADAMS CTR

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT 18 Loader | 1 DAY | | |
| CAT 215 excav | | | |
| D4 Dozer | | | |
| misc tools | | | |
| 2 pickups | | | |
| 1 serv veh | | | |
| ~~[illegible]~~ trailer | | | |
| Decon trailer | | | |
| TOTAL EQUIPMENT | | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Water ~~[illegible]~~ difference between water treated and discharged | 2,566 gals | 0.21 | 538.86 |
| ~~Bum Kerosene~~ | ~~[illegible]~~ | ~~[illegible]~~ | |
| TOTAL MAT. & PROD | | | 538.86 |

SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

### LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7A 4:30P | 9 | | |
| | J. Cosgrove | 7A 5P | 9.5 | | |
| | M. Mathes | 7A 5P | 9.5 | | |
| | S. Ellingsen | 7A 4:30P | 9 | | |
| | J. Craft | 7A 4:30P | 9 | | |
| | J. McIntyre | 7A 5P | 9.5 | | |
| | J. Bailey | 7A 4:30P | 9 | | |
| | J. Yerk | 7A 4:30P | 9 | | |
| | S. Highlander | 7A 4:30P | 9 | | |
| | TOTAL LABOR | | | | — |

### TRANSPORTATION

| CARRIER | #OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills Trucking | 1 | 0624329 | | |
| " " | 1 | 0624330 | | |
| " " | 1 | 0624331 | | |
| ~~[illegible]~~ " | | | | |
| TOTAL FREIGHT | | | | — |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624329 | 25640 | Solidified TAR material | 22 cyd | 214.32 | 4714.2 |
| 0624330 | 25871 | | 25 cyd | " | 5362.5 |
| 0624331 | 25872 | | 25 cyd | " | 5362.5 |
| TOTAL DISPOSAL | | | | | 15,499 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 538.86 |
| TRANSPORTATION | |
| DISPOSAL | 15,499 |
| TAXES | |
| TOTAL AMOUNT | 15,988 |

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CWM ENRAD 103

# Chemical Waste Management, Inc.

*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

..: 25960

## DAILY WORK SHEET

Project Name: Waukegan TAR Pit
Project Number: 91-07-828
Day and Date: Wednesday, February 5, 1992

CUSTOMER LOCATION: 41 Dahringer Rd
Waukegan, IL 60085

PROJECT ACTIVITY: Decon equipment and roll off

| CODE | LABOR NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | J. Courtney | 7/11 | 1.7 | | |
| | J. Cross | 1/10 | 9.0 | | |
| | M. Mathis | / / | 7.5 | | |
| | S. Blanden | / | | | |
| | J. Pratt | / | | | |
| | J. McIntyre | / | | | |
| | J. Bailey | / | | | |
| | J. York | / | | | |
| | S. Highlander | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 | 1 DAY | | |
| IT 18 | | | |
| misc. tools | | | |
| 2 pickups | | | |
| 1 serv. veh | | | |
| office trailer | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Beam Design | 610 ft | 17.71 | 10,803.10 |
| | | TOTAL MAT. & PROD | 10,803.10 |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Collins | 1 | 0629332 | | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0629332 | 25960 | | 21 cy | 214.29 | 4504.29 |
| | | | | TOTAL DISPOSAL | 4504.29 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | 10,803.10 |
| TRANSPORTATION | |
| DISPOSAL | 4504.50 |
| TAXES | |
| TOTAL AMOUNT | 15307.60 |

SUPERVISOR: [signature]

APPROVED: (CUSTOMER) [signature]

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 25961

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Thursday Feb 6, 1992
CUSTOMER LOCATION: #1 Dahringer Rd Waukegan IL, 60085
PROJECT ACTIVITY: Deconing equipment + loading Trucks

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 | 1 Day | | |
| IT 18 | | | |
| misc. Tools | | | |
| 1 Pick up (Stake Bed) | | | |
| office Trailer | | | |
| TOTAL EQUIPMENT | | | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| TOTAL MAT. & PROD | | | |

CWM SUPERVISOR: Sherman Blanden III

APPROVED: (CUSTOMER): [signature]

### LABOR

| CODE | NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| 8 | S. Blanden | 7A | 15:30 | 10 | | |
| | J. Craft | | 15:00 | 9.5 | | |
| | J. McIntyre | | 15:00 | 9.5 | | |
| | J. Bailey | | 15:00 | 9.5 | | |
| | | | | | TOTAL LABOR | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills | 1 | 0624333 | | |
| | 1 | 0624334 | | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 0624333 | 25901 | | 24 EST | 214.50 | 5148 |
| 0624334 | 25902 | | 24 EST | | 5148 |
| | | | | TOTAL DISPOSAL | 10,296 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | 10,2 |
| TAXES | |
| TOTAL AMOUNT | |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 25962

## DAILY WORK SHEET

Project Name Waukegan Tar Pit
Project Number 91-09-828
Day and Date Fri 2-7-92

CUSTOMER LOCATION 1 Dahringer Rd
Waukegan IL 60085

PROJECT ACTIVITY Deconing Roll offs + loading Flatbed Truck

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 | 1 Day | | |
| IT 18 | | | |
| misc Tools | | | |
| 1 Pick up (Stack bed) | | | |
| office Trailer | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | TOTAL MAT. & PROD | |

SUPERVISOR Sherman Blanden III

APPROVED: (CUSTOMER) Jerry Pinto

## LABOR

| CODE | NAME | START FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | S Blanden III | 7a 13:30 | 8.0 | | |
| | J. Bailey | 12:00 | 5.0 | | |
| | J. McIntyre | 12:00 | 5.0 | | |
| | J. Craft | 12:00 | 5.0 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | TOTAL LABOR | | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | TOTAL DISPOSAL | | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No 25963

## DAILY WORK SHEET

Project Name WAukegAN TAR PiT
Project Number 91-09-828
Day and Date MON 2-10-92

CUSTOMER LOCATION 1 Dahringer Rd
WAukegAN IL 60085

PROJECT ACTIVITY Scraping Roll OFFS

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 | 1 Day | | |
| IT-18 | \| | | |
| Misc Tools | \| | | |
| StcAK Bed | \| | | |
| office trailer | \| | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | TOTAL MAT. & PROD | |

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | S. BLANDEN III | 7A / 15:30 | 10 | | |
| | J. CRAFT | \| / 15:30 | 10 | | |
| | J. Bailey | \| / 15:30 | 10 | | |
| | J. McINTYSR | \| / 9:00A | 2.0 | | |
| | | | | TOTAL LABOR | |

TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | TOTAL DISPOSAL | |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

CWM SUPERVISOR Sherman Blanden III

APPROVED: (CUSTOMER) Jerry Pride

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CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

25993

## DAILY WORK SHEET

Project Name Waukegan Tar Pit
Project Number 91-09-828
Day and Date Tue. 2-11-92

CUSTOMER LOCATION 1 Dahringer Rd
Waukegan IL, 60085

PROJECT ACTIVITY Scraping Roll OFFS

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT-215 | 1 DAY | | |
| IT-18 | \| | | |
| Misc. Tools | \| | | |
| Steak Bed | \| | | |
| Officer Trailer | \| | | |
| | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | | |
| | | TOTAL MAT. & PROD | |

SUPERVISOR Sherman Blanden III

APPROVED: (CUSTOMER) [signature]

| CODE | LABOR NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | S. Blanden | 7A / 15:30p | 10 | | |
| | ~~J. McIntyre~~ | / | | | |
| | J. Bailey | 7A / 15:30p | 10 | | |
| | J. Craft | 7A / 15:30p | 10 | | |
| | | / | | | |
| | | | | TOTAL LABOR | |

TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | | |
| | | | TOTAL FREIGHT | |

DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |
| | | | | TOTAL DISPOSAL | |

SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| | |
| TOTAL AMOUNT | |

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**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*

7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

N: 25994

## DAILY WORK SHEET

Project Name: Waukegan Tar Pit
Project Number: 91-09-828
Day and Date: Wed 2-12-92

CUSTOMER LOCATION: 1 Dahringer Rd
Waukegan IL, 60085

PROJECT ACTIVITY: Finishing Roll off, Pressure Washing + loading Steak Bed. And loading Material in Trucks.

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| CAT 215 | 1 Day | | |
| IT 18 | | | |
| Misc. Tools | | | |
| Steak Bed | | | |
| Office Trailer | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | TOTAL MAT. & PROD | |

FOREMAN/SUPERVISOR: Sherman Blandin III

APPROVED: (CUSTOMER) [signature]

### LABOR

| CODE | NAME | START / FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|
| | S. Blandin III | 7A 16:30 | 11.0 | | |
| | J. Bailey | / / | 11.0 | | |
| | J. Craft | / / | 11.0 | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | / | | | |
| | | | TOTAL LABOR | | |

### TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| Wills | 1 | 0624355 | | |
| | 1 | 0624340 | | |
| | | | TOTAL FREIGHT | |

### DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| 00125 | 26175 | | 25 EST | 214.50 | 5362 |
| 00126 | 26176 | | 24 EST | | 5148 |
| | | | | TOTAL DISPOSAL | 10,510 |

### SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| | |
| TRANSPORTATION | |
| DISPOSAL | 10,510 |
| TAXES | |
| | |
| TOTAL AMOUNT | |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

CWM ENRAD 102

**Chemical Waste Management, Inc.**
*Environmental Remedial Action Division*
7250 West College Drive
Palos Heights, IL 60463
Phone: (708) 361-8400

No. 25995

## DAILY WORK SHEET

Project Name Waukegan Tar Pit
Project Number 91-09-828
Day and Date Thu - 2 - 13 - 92

CUSTOMER LOCATION 1 Dahringer Rd
Waukegan IL, 60085

PROJECT ACTIVITY Finshing All misc - Work Pressure Washing Roll OFF Box's loading SteakBED.

| EQUIPMENT | TIME | RATE | AMOUNT |
|---|---|---|---|
| IT-18 | 1 DAY | | |
| Misc. Tools | | | |
| Steak BED | | | |
| Office Trailer | | | |
| | | TOTAL EQUIPMENT | |

| MATERIAL & PRODUCTS | QTY/UNITS | UNIT PRICE | AMOUNT |
|---|---|---|---|
| | | TOTAL MAT. & PROD | |

SUPERVISOR Sherman Blanden III

APPROVED: (CUSTOMER) Jay Pinto

## LABOR

| CODE | NAME | START | FINISH | HRS. | RATE | AMOUNT |
|---|---|---|---|---|---|---|
| | S. Blanden III | 7A | 11:00 | 6.0 | | |
| | J. Carft | | 19:30 | 2.0 | | |
| | J. Bailey | | 11:00 | 6.0 | | |
| | | | TOTAL LABOR | | | |

## TRANSPORTATION

| CARRIER | # OF LOADS | MANIFEST NUMBERS | RATE | AMOUNT |
|---|---|---|---|---|
| | | | TOTAL FREIGHT | |

## DISPOSAL

| MANIFEST NUMBER | WORK ORDER # | PRODUCT CODE | QUANTITY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | TOTAL DISPOSAL | | |

## SUMMARY

| | |
|---|---|
| LABOR | |
| PER DIEM | |
| EQUIPMENT | |
| MATERIAL/PRODUCTS | |
| TRANSPORTATION | |
| DISPOSAL | |
| TAXES | |
| TOTAL AMOUNT | |

This Work Sheet, when signed, is acceptance that the work units performed, personnel, material, equipment, freight and disposal provided are correct. The Billing will be based upon rates and unit prices as per applicable contract document.

# *Appendix L*

## *Liner Testing Results*

NSC

# MEMORANDUM

TO: John Courtney

FROM: Yvonne Tuma

DATE: January 23, 1992

RE: Certifications

Enclosed please find the original Certifications for materials shipped to ENRAC Field Office -- N.S.C. Job # 576-379.

cc: File
Pittsburgh

NSC

January 22, 1992

# POLYETHYLENE RESIN CERTIFICATE OF ANALYSIS

Customer: CWM/Enrac

Resin Type: U.C. 1527

Project: Waukegan, IL

Order Number: P576-379

The polyethylene resin referenced above was tested for melt flow index, density and carbon black content. Melt flow index was determined according to ASTM D 1238. Density was determined according to ASTM D 1505. Carbon black content was determined according to ASTM D 1603. The average test results are reported below.

| | |
|---|---|
| Resin Blend Number | 5783 |
| Melt Flow Index (g/10 min) | 0.21 |
| Density ($g/cm^3$) | 0.948 |
| Carbon Black Content (percent) | 2.22 |

Jane Allen

Jane Allen
Quality Control Manager

NSC

# GEOMEMBRANE CERTIFICATION

Customer: CWM/Enrac

Project: Waukegan, IL

Order Number: P576-379

Ship Date: 1/17/92

Number of Rolls Shipped: 2

Nominal Thickness: 60 mil

We hereby certify that the resin and polyethylene geomembrane for the above identified shipment, meets or exceeds National Seal Company's specifications, attached, and NSF Standard 54 specifications for HDPE geomembrane. The tests listed below in the resin specifications have been performed on each batch of resin. The tests listed below in the geomembrane specifications have been performed at least every 50,000 square feet of geomembrane.

## RESIN SPECIFICATIONS

| | |
|---|---|
| Melt Flow Index | 1.0 Maximum |
| Density | 0.94 Minimum |
| Carbon Black Content | 2.0 to 3.0 |

## GEOMEMBRANE SPECIFICATIONS

| | |
|---|---|
| Thickness | 60 mil Minimum |
| Stress at Yield | 2200 psi Minimum |
| Stress at Break | 3800 psi Minimum |
| Strain at Yield | 13% Minimum |
| Strain at Break | 700% Minimum |
| Carbon Black Dispersion | A1 or A2 |

Jane Allen

Jane Allen
Quality Control Manager

1-22-92

Date

NSC

January 22, 1992

## GEOMEMBRANE CERTIFICATE OF ANALYSIS

Customer: CWM/Enrac

Project: Waukegan, IL

Order Number: P576-379

Number of Rolls Shipped: 2

Number of Rolls Tested: 1

Nominal Thickness: 60 mil

The geomembrane referenced above was tested for thickness, tensile properties, carbon black dispersion and dimensional stability. Thickness was tested according to ASTM D 751. Tensile properties were tested according to ASTM D 638 using a type IV dumbbell specimen, a strain rate of two inches per minute and grip movement for strain determinations. Carbon black dispersion slides were prepared according to ASTM D 3015 and rated according to the ASTM D 2663 classification chart when viewed under 100X magnification. Dimensional stability was determined according to ASTM D 1204 at 100°C for one hour. The raw polymeric material is first quality polyethylene resin containing no more than 2% clean recycled polymer by weight. The average test results are reported below.

| Roll Number | | C6L-5783-A1015 |
|---|---|---|
| Thickness (mils) | | 60.9 |
| Stress at Yield (psi) | MD | 2480 |
| | TD | 2520 |
| Stress at Break (psi) | MD | 4840 |
| | TD | 4920 |
| Strain at Yield (percent) | MD | 16.6 |
| | TD | 15.7 |
| Strain at Break (percent) | MD | 878 |
| | TD | 971 |
| Carbon Black Dispersion | | A1 |
| Dimensional Stability | MD | -0.6 |
| | TD | 0.0 |
| Tear Resistance (ppi) | MD | 847 |
| | TD | 807 |
| Density ($g/cm^3$) | | 0.947 |
| Carbon Black Content (%) | | 2.32 |

# CERTIFICATE OF ANALYSIS

FAX NO. 309-343-1536
NATIONAL SEAL CO.
1255 MANMOUTH BOULEVARD
GALESBURG, IL 61401
ATTN: MS. JANE ALLEN

UNION CARBIDE CHEMICALS
AND PLASTICS COMPANY INC.
POLYOLEFINS DIVISION
P.O. BOX 186
PORT LAVACA, TEXAS 77979

DECEMBER 30, 1991

| | |
|---|---|
| PRODUCT NAME | DHDD-1527 BK |
| BLEND NUMBER | 215783 |
| QUANTITY, LBS. | 188,550 |
| CONTAINER | RAIX57304 |
| CUSTOMER ORDER NO. | 11540 |
| UCC ORDER NO. | 460933 |
| SHIPPING DATE | 12/30 |

SHIPPED TO: NATIONAL SEAL CO.
GALESBURG, IL

GENTLEMEN:

WE CERTIFY THAT THE POLYETHYLENE RESIN IDENTIFIED ABOVE MEETS THE REQUIREMENTS OF:

UCC&P INTERNAL SPECIFICATIONS

THE FOLLOWING TEST DATA WAS OBTAINED:

| | | |
|---|---|---|
| DENSITY ASTM | | 0.9480 |
| MELT INDEX | GTM | 0.22 |
| MELT FLOW INDEX | GTM | 27. |
| CARBON BLACK | PCT | 2.1 |
| MOISTURE PCT | PCT | 0.00 |
| MFR I21/I5 | | 21.6 |
| MELT INDEX I5 | GTM | 1.23 |

ANALYSIS NO. 251216

ROBERT SODD
QUALITY CONTROL DEPARTMENT
SEADRIFT PLANT LABORATORY

# *Appendix M*

## *Pertinent Correspondence*

***Biweekly Progress Memorandums***

***U.S. EPA Comments on WP1 and Site Safety Plan***

***U.S. EPA Approval of WP1 and Site Safety Plan***

***Alternatives for Waste Water Management***

***U.S. EPA Request for Official Notification of Completion of Phase I at the WTPS***

***Letter of Completion of Free Tar Removal***

***Application for Illinois Environmental Protection Agency Water Pollution Control Permit***

***Application for Supplemental Illinois Environmental Protection Agency Water Pollution Control Permit***

***Correspondence with North Shore Sanitary District Regarding Disposal of Treated Water***

File Copy

**Barr**
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

March 18, 1992

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 South Dearborn Street
Chicago, IL 60604

Re: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Biweekly Progress Memorandum No. 10

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSG) and Elgin, Joliet and Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991.

Activities Completed During March 1 through March 14

- Continued work on the removal action final report (WP1).

Activities Anticipated During March 14 through April 11

- Receive approval of revised Work Plan (WP2) and begin implementation of this Work Plan.

- Submit removal action final report (WP1) to the U.S. EPA.

If you have any questions concerning this information, please contact me at (612)832-2670.

Sincerely,

Lawrence D. Dalen

LDD/tmk
c: Sean Mulroney
Pat Doyle
Jerry Picha
Russ Selmon
Andrew Armstrong
Alice Saylow
13\49\004\PS7.LTR

**Barr**
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

FILE COPY

March 16, 1992

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 South Dearborn Street
Chicago, IL 60604

Re: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Biweekly Progress Memorandum No. 9

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSG) and Elgin, Joliet and Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991.

Activities Completed During February 16 through February 29

- Worked on the removal action final report (WP1). This report will provide a summary of the actions taken to comply with the order.
- Received results of analyses of soil samples from Soil Borings B-38 and B-39.
- Prepared soil boring logs and location map for Borings B-38 and B-39.

Activities Anticipated During March 1 through March 28

- Continue preparation of removal action final report (WP1).
- Receive approval of revised Work Plan (WP2) and begin implementation of this Work Plan.

Submittals

Attached are analytical reports for soil and water samples collected at the WTPS. Attachment 1 contains NSSD (February 13, 1992) analytical report sheets for the organics analysis of water treatment system effluent samples. The base/neutral analytical report sheets are for the time period December 11, 1991 through January 14, 1992. Volatile organic analytical report sheets are for the time period December 27 through January 14, 1992. The logs for Soil Boring SB-38 and SB-39 are in Attachment 2. The location of these borings are shown

on Attachment 3. Attachment 4 contains a $CH_2M$ Hill report for analysis of soil samples collected from Soil Borings B-38 and B-39 on January 16-17, 1992.

If you have any questions concerning this information, please contact me at (612)832-2670.

Sincerely,

Lawrence D. Dalen

LDD/dsd
Attachments
c: Sean Mulroney (w/attachments)
Pat Doyle (w/attachments)
Jerry Picha (w/attachments)
Russ Selmon (w/attachments)
Andrew Armstrong (w/attachments)
Alice Saylow (w/attachments)
13\49\004\PS3.LTR

FILE COPY

13/49-004 JSCC)
Waukegan Tar Pit
Correspondence File
TDM

Barr
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

February 18, 1992

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 South Dearborn Street
Chicago, IL 60604

Re: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Biweekly Progress Memorandum No. 8

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSG) and Elgin, Joliet and Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991.

Activities Completed During February 3 through February 15

- Completed the installation of the berm around the tar pit.
- Completed decontamination of equipment. Transported decontamination material, spent carbon, and miscellaneous debris to Adams Center Landfill for disposal as a hazardous waste.
- Demobilization of contractor's equipment and personnel from the site.
- All removal work described in the October 1991 Revised Free Tar Removal Work Plan (WP1) has been accomplished.
- Submitted revised Supplemental Extent of Contamination Work Plan (WP2).

Activities Anticipated During February 16 through March 14

- Prepare the response action final report which summarizes the actions taken under the October 7, 1991 Revised Free Tar Removal Work Plan (WP1).
- Receive results of analyses of soil samples from soil boring B-38 and B-39. Prepare soil boring logs and location maps for these borings.
- Receive approval of revised Work Plan (WP2) and begin implementation of this Work Plan.

Attached are analytical reports for samples collected at the WTPS. Attachment 1 contains NSSD analytical report sheets for the organics analysis of effluent water samples dated January 22, 1992. The base/neutral analytical reports are for the time period November 27, 1991 through December 11, 1991. Volatile analysis covers the time period December 3 through December 22, 1991. Attachment 2 contains a CH2M Hill report for analysis of tar samples collected on January 7, 1992.

If you have any questions concerning this information, please contact me at (612)832-2670.

Sincerely,

Lawrence D. Dalen

LDD/dsd
Attachment
c: Sean Mulroney (w/ attachment)
Pat Doyle (w/ attachment)
Jerry Picha (w/ attachment)
Russ Selmon (w/ attachment)
Andrew Armstrong (w/ attachment)
Alice Saylow (w/ attachment)
13\49\004\PS14.LTR

**Barr**
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

FILE COPY

February 7, 1992

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
77 West Jackson Boulevard
Chicago, IL 60604-3590

RE: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Progress Memorandum #7

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSGC) and the Elgin, Joliet and Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991.

Activities completed during January 19 through February 1:

- Worked on the preparation of a revised Work Plan (WP2) for the Supplemental Extent of Contamination Study. The revised work plan will be based on the January 6, 1991 EPA comment letter, the discussions of the January 14th meeting between the PRP's and EPA and the result of the PRP effort to gain access for placement of soil boring and the locating of utilities in the potential soil boring locations. Contacted utilities to assist in the location of facilities which might conflict with proposed soil borings.

- Worked on the decontamination of equipment.

- Placed a polyethylene liner over the former tar pit area.

- Began work on the perimeter berm around the former tar pit.

- Shipped soil samples from boring B-38 and B-39 placed through the bottom of the tar pit to $CH_2M$ Hill Laboratory for analyses of PAH compounds and volatile organic compounds.

- Worked on the demobilization of the site water treatment system and tar stabilization equipment.

Activities Anticipated During February 2 Through February 29:

- Complete the berm installation around the former tar pit. Complete the decontamination of equipment. Stabilize with flyash the miscellaneous removal work debris, decontamination material and spent carbon. Load and transport the stabilized materials to Adams Center Landfill for disposal as a hazardous waste. Demobilize from the site. All the removal work described in the October 1991, Revised Free Tar Removal Work Plan (WP1) will have been accomplished once those activities are completed.

- Receive results of analyses of soil samples from soil boring B-38 and B-39 and tar samples collected during the removal action. Submit the soil boring logs and location map for soil boring B-38 and B-39 to the U.S. EPA.

- Work on the final report summarizing the actions taken under the October 7, 1991 Revised Free Tar Removal Work Plan (WP1).

- Submit a revised Supplemental Extent of Contamination Work Plan (WP2).

- Receive approval of the revised Work Plan (WP2) and begin implementation of this Work Plan.

A copy of the January 6, 1991 $CH_2M$ Hill Laboratory results of analyses of samples collected from the effluent of the water treatment system used during the free tar removal is enclosed.

If you have any questions, please contact me at 612-832-2670.

Sincerely,

Lawrence D. Dalen

LDD/lah
Enclosure
c: Sean Mulroney, w/o enclosure
Pat Doyle, w/o enclosure
Russ Selman, w/o enclosure
Andrew Armstrong, w/o enclosure
Alice Saylor, w/o enclosure
13\49\004\PS5.LTR

**Barr**
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

FILE COPY

January 29, 1992

Mr. Paul Steadman
On-Scene Coordinator
U.S. Environmental Protection Agency (5HS-12)
77 West Jackson Boulevard
Chicago, IL 60604-3590

Re: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Bi-Weekly Progress Memorandum No. 6

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSGC) and the Elgin, Joliet & Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991.

Activities Completed During January 5 through January 18

- Received January 6th EPA comment letter on the Work Plan (WP2).
- Pumped and treated water from tar pit. Total water pumped and treated since the beginning of the removal project is approximately 1.27 million gallons.
- Completed removal of free tar from the tar pit on January 10. Final inspection of the pit bottom was delayed until January 15 due to accumulation of groundwater in the pit bottom during the weekend of January 11 and 12.
- Shaped and cleared tar soils and debris from the pit bottom and sides to facilitate liner installation.
- Site inspected by Paul Steadman, EPA On-Scene Coordinator, on January 13.
- Met with EPA on January 14 to discuss the Work Plan (WP2) and the tar removal progress.
- Completed transport of stabilized tar to Adams Center Landfill.
- Placed two soil borings through the bottom of the former tar pit.

Activities Anticipated During January 19 through February 15

- Analyze six soil samples from beneath the former tar pit for PAH compounds and volatile organic compounds.
- Installation of liner.
- Complete decontamination of equipment and demobilization from the site.
- Submit revised work plan for Supplemental Extent of Contamination Work Plan (WP2).

If you have any questions concerning this information, please contact me at (612) 832-2670.

Sincerely,

LDD

Lawrence D. Dalen

LDD:lah
13\49\004\PROGRPT6.LTR

copy to
Doyle
Selmer
Armstrong
Saylor
Mulvaney

Barr
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

FILE COPY

January 6, 1992

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 S. Dearborn Street
Chicago, IL 60604

RE: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Bi-Weekly Progress Memorandum No. 5

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSGC) and the Elgin, Joliet & Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991. This letter describes the progress toward completion of activities in accordance with the Free Tar Removal Work Plan (WP1).

Activities Completed During December 22 through January 4

- Pumped and treated water from tar pit. Treated water discharged to NSSD following conditions of the modified discharge permit. Pumped, treated and discharged to sanitary sewer 215,085 gallons of water from the pit (December 22 to January 4).

- Continued excavation and stabilization of tar from the pit by adding fly ash. Transported 639 tons of stabilized tar to the Adams Center Landfill in Fort Wayne, IN, for disposal. The total transported to date is 1,230 tons. Based on visual observations at the site on January 4, it is estimated that it will take approximately 24 more loads to complete the removal of the visible free tar.

- Received results from analysis of treated water effluent samples. (See attached $CH_2M$ Hill Laboratory letter dated January 2.)

Activities Anticipated During January 5 through January 8

- Continue pumping, treatment and disposal of water that accumulates in the pit due to precipitation and/or groundwater infiltration.

- Complete removal of the visible free tar by January 8.

Activities Anticipated During January 9 through January 17

- Continue pumping, treatment and disposal of water that accumulates in the pit due to precipitation and/or groundwater infiltration.
- Clean and shape pit bottom removing scattered tar contaminated debris and tar/soil mixture.
- Collect soil samples of the pit bottom.
- As a part of WP-2, place 2-4 soil borings to the clay hard pan 18-22 feet below the bottom of the tar pit.
- Installation of liner.
- Decontaminate equipment and demobilization from the site.

If you have any questions concerning this information, please contact me at (612) 832-2670.

Sincerely,

Lawrence D. Dalen

LDD/lah
c: Sean Mulroney
Pat Doyle
Russ Selman
Alice Saylor
Andrew Armstrong
13\49\004\PS3.LTR

**Barr**
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

FILE COPY
13/49-004JSL01
WTPS

December 24, 1991

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 S. Dearborn Street
Chicago, IL 60604

RE: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Bi-Weekly Progress Memorandum No. 4

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSGC) and the Elgin, Joliet & Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991. This letter describes the progress toward completion of activities in accordance with the Free Tar Removal Work Plan (WP1).

Activities Completed During December 8 through December 21

- Pumped and treated water from tar pit. Treated water discharged to NSSD following conditions of discharge permit. Most of the water was removed from the pit by November 26. Additional water accumulated in the pit and seeped into the pit from the snow and rain that occurred on the weekend following Thanksgiving (November 28) and rain on the weekend of December 7. Obtained a revised water treatment permit on December 12 which increased the maximum daily discharge volume limitation to 144,000 gallons. Continued pumping from the pit, treating and discharging water to the sanitary sewer at a maximum rate of 30,000 gallons per day for the period of December 8 through December 11. Increased water treatment rate to 92,000 gallon/day on December 12 and 142,000 gallon/day on December 13. Pumped, treated and discharged to sanitary sewer 615,000 gallons of water from the pit (December 8 to December 21).

- Continued excavation and stabilization of tar from the pit by adding fly ash, and/or lime and cement kiln dust. Transported 469 tons of stabilized tar to the Adams Center Landfill in Fort Wayne, IN, for disposal. Approximately 30 percent of the tar has been removed from the pit, based on original tar volume estimate. Chemical Waste Management, the removal contractor, believes that there may be less free tar in the pit than the original estimate, therefore as much as 50 percent of the free tar may have been removed from the pit.

- Received results from North Shore Sanitary District (NSSD) analysis of treated water effluent samples. (See attached NSSD letter dated December 9.)

Activities Anticipated During December 21 through January 7

- Continue pumping, treatment and disposal of water that accumulates in the pit due to precipitation and/or groundwater infiltration.

- Continue excavation, stabilization and disposal of tar.

Activities Anticipated During January 8 through January 17

- Installation of liner.

- Decontaminate equipment and demobilization from the site.

If you have any questions concerning this information, please contact me at (612) 832-2670.

Sincerely,

Lawrence D. Dalen

LDD/mls
c: Sean Mulroney
Pat Doyle
Russ Selman
Alice Saylor
Andrew Armstrong
13\49\004\PS2.LTR

FILE COPY

**Barr**

Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

December 12, 1991

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 S. Dearborn Street
Chicago, IL 60604

RE: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Bi-Weekly Progress Memorandum No. 3 - Revised

This letter includes revised information regarding the activities completed through December 7, 1991.

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSGC) and the Elgin, Joliet & Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991. This letter describes the progress toward completion of activities in accordance with the Free Tar Removal Work Plan (WP1).

Activities Completed During November 24 through December 7

- Pumped and treated surface water from tar pit. Treated water discharged to NSSD following conditions of discharge permit. Most of the water was removed from the pit by November 26. During the period from November 27 to December 3, 3.86 inches of precipitation were recorded at NSSD, Waukegan Plant. Localized precipitation events occurred during the weekend of December 7. In addition, unseasonably cold weather caused difficulties during water treatment and discharge. The system did not operate at the allowed discharge volume of 30,000 gpd until December 7.

- Begin excavation and stabilization of tar from the pit by adding fly ash, and/or lime and cement kiln dust. Transported six truck loads (approximately 100 cubic yards) of stabilized tar and tar contaminated debris to the Adams Center Landfill in Fort Wayne, IN, for disposal.

- Initiated discussion with North Shore Sanitary District (NSSD) to increase the original maximum volume limitation of 30,000 gallons per day.

Activities Anticipated During December 8 through January 8

- Continue pumping, treatment and disposal of precipitation that accumulates in the pit.
- Continue excavation, stabilization and disposal of tar.
- Installation of liner.
- Decontaminate equipment and demobilization from the site.

If you have any questions concerning this information, please contact me at (612) 832-2670.

Sincerely,

Lawrence D. Dalen

LDD/lah
c: Pat Doyle
Russ Selman
Alice Saylor
Andrew Armstrong
13\49\004\PS.LTR

**Barr**
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

FILE COPY
13/09-004 WTPS

December 10, 1991

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 S. Dearborn Street
Chicago, IL 60604

RE: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Bi-Weekly Progress Memorandum #3

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSGC) and the Elgin, Joliet & Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991. This letter describes the progress toward completion of activities in accordance with the Free Tar Removal Work Plan (WP1).

Activities Completed During November 24 through December 7

- Pumped and treated surface water from tar pit. Treated water discharged to NSSD following conditions of discharge permit. Most of the water was removed from the pit by November 26. Additional water accumulated in the pit from the snow and rain that occurred on the weekend following Thanksgiving (November 28) and rain on the weekend of December 7. Continued pumping from the pit, treating and discharging water to the sanitary sewer at a maximum rate of 30,000 gallons per day.

- Begin excavation and stabilization of tar from the pit by adding fly ash, and/or lime and cement kiln dust. Transported six truck loads (approximately 100 cubic yards) of stabilized tar and tar contaminated debris to the Adams Center Landfill in Fort Wayne, IN, for disposal.

- Initiated discussion with North Shore Sanitary District (NSSD) to increase the original maximum volume limitation of 30,000 gallons per day.

Activities Anticipated During December 8 through January 8

- Continue pumping, treatment and disposal of precipitation that accumulates in the pit.

- Continue excavation, stabilization and disposal of tar.

- Installation of liner.
- Decontaminate equipment and demobilization from the site.

If you have any questions concerning this information, please contact me at (612) 832-2670.

Sincerely,

LDD

Lawrence D. Dalen

LDD/lah
c: Pat Doyle
Russ Selman
Alice Saylor
Andrew Armstrong
13\49\004\PS.LTR

FILE COPY

**Barr**
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

November 25, 1991

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 S. Dearborn Street
Chicago, IL 60604

RE: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Bi-Weekly Progress Memorandum #2

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSGC) and the Elgin, Joliet & Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991. This letter describes the progress toward completion of activities in accordance with the Free Tar Removal Work Plan (WPI).

Activities Completed During November 11 through November 23

- Mobilization of Chemical Waste Management (CWM) equipment and personnel to the site.
- Setup water treatment system. Water treatment consists of filtration to remove oil and particulates, GAC treatment and 20,000 gallon storage tank.
- Obtained permission to discharge treated water to North Shore Sanitary District (NSSD).
- Began treating surface water from tar pit. Treated water discharged to NSSD following conditions of discharge permit.
- Commonwealth Edison moved the support pole on the eastern edge of the tar pit.
- Submittal of the Supplemental Extent of Contamination Work Plan (WP2) to EPA.

Activities Anticipated During November 25 through December 25

- Begin removal of free tar. Tar will be excavated and placed in 30 $yd^3$ rolloff dumpsters. Kiln dust will be added to stabilize the tar. Stabilized tar will be disposed in an approved facility.

- Installation of liner.

- Decontaminate equipment and demobilization from the site.

If you have any questions concerning this information, please contact me at (612) 832-2670.

Sincerely,

Lawrence D. Dalen

LDD/mls
c: Pat Doyle
Russ Selman
Alice Saylor
Andrew Armstrong
13\49\004\PS.LTR

Patrick J. Doyle
Vice President

**North Shore Gas**

November 5, 1991

Mr. Paul R. Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 S. Dearborn Street
Chicago, IL 60604

RECEIVED
NOV 12
BARR

Re: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115
Bi-Weekly Progress Memorandum #1

Dear Mr. Steadman:

This letter is prepared on behalf of the North Shore Gas Company (NSGC) and the Elgin, Joliet & Eastern Railway Company (EJ&E) to fulfill the requirements of paragraph 18 of the Unilateral Administrative Order issued by the U.S. Environmental Protection Agency on September 5, 1991. Following submittals of drafts of the Free Tar Removal Work Plans (WPI) on September 12 and October 7, 1991, the U.S.EPA notified Barr Engineering Company (Barr) and NSGC of approval of the WPI on October 10, 1991. The following describes the activities for the period October 10 through November 2, 1991 in three major areas: Contractor Selection and Negotiations, Site Access, and Water Disposal.

Week of October 10 - October 12, 1991

Contractor Selection and Negotations:

A pre-bid meeting was held with six potential contractors on October 10 to discuss a Request for Proposal (RFP) for the work described in WPI. A tour of the WTPS was conducted following the meeting. The six contractors were requested to submit their proposals no later than October 16, 1991.

Water Disposal:

Barr submitted a permit application for industrial sewer connection to the North Shore Sanitary District (NSSD) on behalf of NSGC on October 11. The application included an estimate of volumetric discharge to the sanitary sewer, and an analysis of a 9/06/90 tar pit water sample.

North Shore Gas Company
122 South Michigan Avenue
Chicago, Illinois 60603
312 431 4810

A Subsidiary of
**Peoples Energy Corporation**

Week of October 13 - October 19, 1991

Contractor Selection and Negotiations:

NSGC received five proposals from contractors to perform the work described in WPI on October 16 and 17. NSGC began a detailed evaluation process on October 16 that resulted in the selection of Chemical Waste Management-ENRAC Division (CWM) as the Tar Pit contractor on October 18. A standard CWM contract was received by NSGC on October 18, 1991.

Site Access:

On October 18, NSGC received a first draft of a site access agreement from the NSSD.

Water Disposal:

On October 16, NSGC provided NSSD with a draft IEPA Application for Joint Construction and Operating Permit, including Form WPC-PS-1 and Schedules A, J, and N. The same draft Permit Applications were mailed to IEPA (Tim Kluge) on October 18. This mailing also included copies of the USEPA Unilateral Order, the WTPS Work Plan, and the USEPA Approval on the Work Plan.

The NSSD submitted a letter to the IEPA (Charles Zeal) on October 17 requesting clarification on NSSD's acceptance of contaminated water from remediation projects, and its effect on their domestic waste treatment classification.

Week of October 20 - October 26, 1991

Contractor Selection and Negotations:

NSGC redrafted the CWM contract on October 20 to revise the language regarding two major areas of disagreement: Control of the project, and liability for work conducted at the site. This draft contract was delivered to CWM and EJ&E on October 21. Discussions between NSG and CWM continued between October 21-25 concerning the insurance provisions resulting in agreement on the insurance portion of the contract.

On October 23, an all day meeting was held at NSGC's offices between NSGC and CWM to negotiate contract terms. On October 25, CWM and NSGC exchanged information regarding treatment of unkown material that may be found in the Pit.

Week of October 20 - October 26, 1991 (continued)

Site Access:

Discussions occurred October 21-25 between NSGC and NSSD to resolve differences in the proposed access agreement.

Water Disposal:

NSGC received a postcard from IEPA acknowledging receipt of the Application for Joint Construction and Operating Permit on October 22, and naming Candy Morin as reviewer. NSGC contacted IEPA and NSSD October 22-25 to inquire about the status of the Application and IEPA's response to NSSD's October 17 letter.

Week of October 27 - November 2, 1991

Contractor Selection and Negotations:

NSGC received contract language from CWM regarding liability for unknown materials on October 29. These modifications as well as other matters discussed earlier in the week were incorporated in a draft contract NSGC sent to CWM on October 31. On November 1, CWM presented NSGC with three additional insurance revisions prompted by NSSD access agreement requirements. Further discussions held that day culminated in NSGC reaching an agreement in principle with CWM.

Site Access:

NSGC delivered a revised access agreement to NSSD on October 28. Additional discussions between NSGC and NSSD occurred October 30-November 1 in an attempt to resolve insurance matters. NSGC sent a copy of a CWM insurance certificate to NSSD on November 4.

Water Disposal:

NSGC maintained contact with IEPA and NSSD regarding the permit application and NSSD's acceptance of the waste water. NSG contacted IEPA on October 30 requesting it reroute the NSSD October 17 letter to Tim Kluge's department to more expeditiously resolve the waste water issue.

Planned Activies November 3 - December 6, 1991

Following USEPA approval of CWM's HASP, agreement with NSSD on site access, and resolution of waste water discharge permitting, CWM will begin site mobilization. See the attached schedule for the remainder of on-site activities during this period.

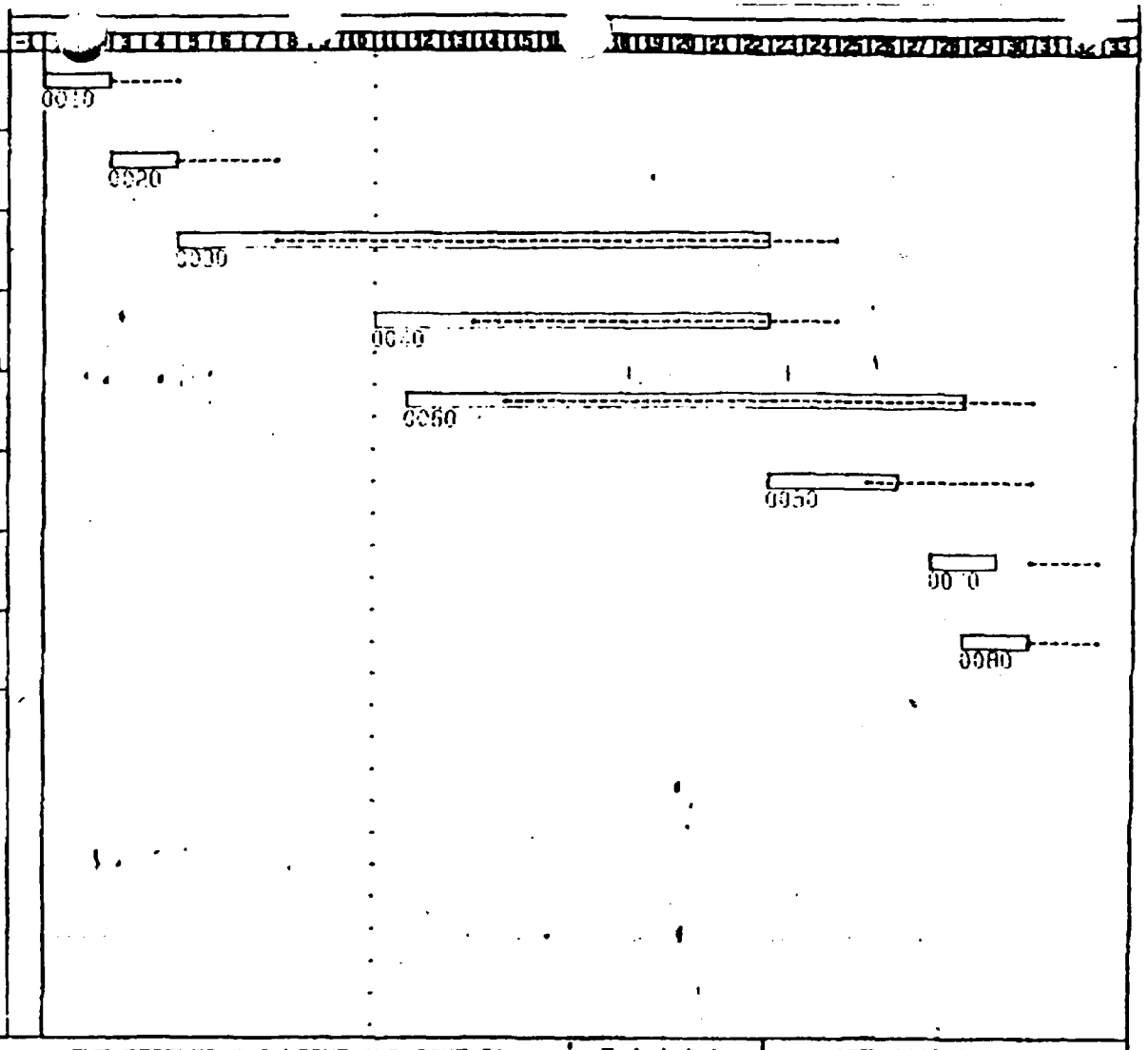
Work will continue on the Work Plan for the Extent of Contamination Study (WPS). Submittal of this Work Plan to the USEPA will occur on or before November 22, 1991.

Sincerely,

P J Dagley

att.
5162Q

| | | |
|---|---|---|
| HEALTH AND SAFETY PLAN | 0010 | CAL 1 |
| ES 22OCT91 | | EF 23OCT91 |
| MOBILIZATION | 0020 | CAL 1 |
| ES 24OCT91 | | EF 25OCT91 |
| WATER TREATMENT | 0030 | CAL 1 |
| ES 26OCT91 | | EF 12NOV91 |
| TAR REMOVAL AND SOLIDIFICATION | 0040 | CAL 1 |
| ES 1NOV91 | | EF 12NOV91 |
| TRANSPORTATION AND DISPOSAL | 0060 | CAL 1 |
| ES 2NOV91 | | EF 18NOV91 |
| DEBRIS REMOVAL AND SOLIDIFICATION | 0050 | CAL 1 |
| ES 13NOV91 | | EF 16NOV91 |
| LINER INSTALLATION | 0070 | CAL 1 |
| ES 18NOV91 | | EF 19NOV91 |
| DECONTAMINATION AND DEMOBILIZATION | 0080 | CAL 1 |
| ES 19NOV91 | | EF 20NOV91 |




Primavera Systems, Inc.

THE PEOPLES GAS LIGHT AND COKE CO.
WAUKEGAN TAR PIT SITE, WAUKEGAN, IL
PROPOSED PROJECT SCHEDULE

Project Start : 22OCT91
Project Finish: 22NOV91

Sheet 1 of 1

Date Date: 22OCT91
Plot Date: 7NOV91

Patrick J. Doyle
Vice President

**North Shore Gas**

September 12, 1991

VIA MESSENGER

Ms. Cindy Nolan
On-Scene Coordinator
U.S. EPA (5HS-12)
230 South Dearborn Street
Chicago, Illinois 60604

Re: Waukegan Tar Pit

Dear Ms. Nolan:

Pursuant to the United States Environmental Protection Agency, Region V, Docket No. V-W-'91-C-115, in the matter of the Waukegan Tar Pit Site, Order Section, paragraph 3 and 7, Barr Engineering Company, 7803 Glenroy Road, Minneapolis, Minnesota, 55439 has been selected as the contractor and Mr. Larry Dalen selected as the On-Site Coordinator. Mr. L. Dalen's phone number is 612-830-0555.

Sincerely,

P J Doyle

cc: Sean Mulroney, U.S.EPA
Melissa Wynne, North Shore Sanitary District
Russ Selman, North Shore Gas Co., c/o Bell Boyd & Lloyd
Alice C. Saylor, Elgin, Joliet and Eastern Railway Company
Andrew S. Armstrong, Elgin, Joliet and Eastern Railway Company
Peter Kauffman, North Shore Gas Co.

**DATE RECEIVED:** 9/12/91
**RECEIVED BY:** [illegible]

North Shore Gas Company
122 South Michigan Avenue
Chicago, Illinois 60603
312 431 4810

A Subsidiary of
*Peoples Energy Corporation*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

30 September 1991

REPLY TO ATTENTION OF:

Mr. Russ Selman, Esq.
North Shore Gas Company
C/O Bell, Boyd & Lloyd
3 First National Plaza - Suite 2900
Chicago, Il 60602

RECEIVED
OCT 0 3
BARR
ENGINEERING CO.

Mr. Andrew Stewart Armstrong, Director
Real Estate and Industrial Development
Elgin, Joliet and Eastern Railway Company
P.O. Box 880
Joliet, Illinois 60434

RE: Waukegan Tar Pit Workplan, Site Safety Plan and EOC Study Review

Gentlemen:

A review of the referenced facility workplan, site safety plan and outline of the extent of contamination (EOC) study has been completed and the following comments are submitted. Please revise the workplan in accordance with the following comments.

Free Tar Removal Work Plan (WP1)

Page 2: K142 is a proposed and not a listed hazardous waste number identifier and, as such, it is not acceptable as a classification standard for removal of the contaminants at this site. Similarly, K087 is not a acceptable hazardous waste identifier for the type of waste recognized at this facility due to its unknown origin.

The tar waste is considered a D018 in accordance with RCRA because it is toxic for benzene.

Section 2.0 Disposal Scenarios

This Agency sent a letter to Barr Engineering Company to the attention of Mr. Larry Dalen on August 20, 1991. That letter offered four facility options for tar recycling processes and six facility options for managing solvent wastes which this Agency determined to be currently in compliance. Your workplan does not address consideration of any of these facilities as alternative disposal sites for the tars located

within your site.

Please specify in the revised workplan that you will follow a new procedure for finding a disposal facility as outlined below:

> Before proposing a disposal facility to U.S. EPA and before retaining the services of a disposal facility, the Respondents' Project Coordinator will check with the U.S. EPA OSC to ascertain whether the facility is in compliance with RCRA and the CERCLA Off-site Policy. If a facility is not in compliance then an alternate facility will be proposed.

The selection of Allied Signal, Inc. by your organization as a disposal facility is contingent upon their ability to accept D018 waste and to comply with the CERCLA off-site policy. Allied Signal would need to receive a current inspection and be found to be in compliance by RCRA officials before receiving U.S. EPA approval as a disposal facility. Because the inspection process takes at least two months and there is no guarantee the facility will pass the inspection, Allied Signal, Inc. is not approved.

Page 4: Storage Contingency

Please state that the storage facility design will comply with the substantive technical requirements of RCRA.

Page 7: Water Management

Caution should be exercised prior to discharge of the sump collected waters as the benzene fraction which may occur in such waters will remain as a result of benzene's slight to acute solubility and miscibility in water. Describe what will be done with the oil fraction.

The permission of the NSSD must also be obtained prior to the discharge of any surface or groundwater. Prior to discharge of decant and sump waters the the NSSD's POTW, analysis of the waters should be performed to assure that they meet that facility's discharge limitations.

Page 8: Pit Closure

Section 3.5: Assure that the polyethylene liner proposed is not subject to chemical deterioration as a consequence of its long-term exposure to aliphatic compounds present within the soils and pit after the removal action is completed.

Section 5.1, Equipment decontamination: Describe the disposal method for the tar/oil fraction of the oil/water separator.

Page 9: Solid waste disposal

What is meant by " solid wastes that are impacted by the tar will be managed on-site and properly disposed " ? Describe the exact disposal arrangements.

Section 5.3.1: Assure that all personnel assigned to perform this removal action can readily demonstrate that they've received the appropriate 29 CFR 1910 training.

Table 1: Add the results of the Toxicity Characteristic test for benzene to this table.

SITE SAFETY PLAN ADDENDUM NO. 1

Reference to Section C under paragraph 3 concerning key personnel category and names to be added:

Delete U.S. EPA On-Scene Coordinator name, Maureen O'Mara, and add the following names as U.S. EPA On-Scene Coordinators:

Cindy Nolan
Paul Steadman

Mr. Paul Steadman will serve as the OSC while Ms. Nolan is on leave.

Paragraph 4, referencing page A-3 of Appendix A, delete Maureen O'Mara's telephone number and insert the following telephone numbers for OSCs Nolan and Steadman:

312/886-6246
312/353-7615

SITE SAFETY PLAN ADDENDUM NO. 2

Paragraph 2, Table 2 project tasks reference:

It is advisable that personnel commence work in Level C protection, and, if monitoring results indicate reduced exposure risks, then downgrade personal protection to Level D and not the reverse order as indicated in the plan.

Also, identify type of respirator cartridge use and specify knowledge of permeation and/or breakthrough times of the cartridges in use based on their exposure to benzene contaminants

and their derivatives.

SITE SAFETY PLAN ADDENDUM NO. 3

Comments are likewise concerning initiating operations in Level C and downgrading to Level D if exposure risks are reduced or nonexistent.

BARR ENGINEERING CO - PROJECT SAFETY PLAN

Page 4, Paragraph 3, Site Facilities:

Add a portable toilet to facilities list as determined by number of personnel on the site.

Page 11, Paragraph H, Equipment Calibration:

Because of the hazardous nature of the contaminants that the workers may be exposed to daily, a need for DAILY calibration of the instrumentation is recommended and advised. Weekly calibration is inadequate.

TABLE 2, PROJECT TASKS:

Based on the risk analysis cited in " Depth Sampling, " Level C protection is advised.

TABLE 3, PERSONAL PROTECTION LEVELS:

A complete review and upgrading of the table is necessary as it is currently unclear, identifies erroneous levels or types of equipment REQUIRED to afford the proper level of personal protection and it is difficult to decipher the entry shown as " -- ".

Applicable or Relevent and Appropriate Requirements

Special note concerning State and Federal ARARs: Be aware that the State of Illinois may have specific applicable or relevent and appriopriate requirements (ARARs) which will need to be met during this removal action. These may involve certain standards for cleanup levels of toxic contaminants, discharge limitations, air quality criteria, and other varied requirements. The workplan must state that, to the extent practicable, all state and federal ARARs will be met.

Please make the corrections and submit the revised workplan for review and approval by October 7, 1991.

Sincerely,

Cindy Nolan
On-Scene Coordinator

Paul R. Steadman
On-Scene Coordinator

cc: Sean Mulroney, U.S. EPA ORC
Larry Dalen, Barr Engineering

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:

October 10, 1991

Mr. Larry D. Dalen
Barr Engineering Company
7803 Glenroy Road
Minneapolis, Minnesota 55439-3723

RECEIVED
OCT 1 5
BARR
ENGINEERING CO.

Re: Waukegan Tar Pit Site
Work Plan (WP1) Approval

Dear Mr. Dalen:

The Revised Free Tar Removal Work Plan (WP1) and Addendum No. 4 to the Site Safety Plan are hereby approved by U.S. EPA with the following modifications:

1. WP1, Page 2, After First Full Paragraph: The following paragraph modifies Section 1.0, Introduction - "This removal action will comply with all state and Federal applicable or relevant and appropriate requirements (ARARs) to the extent practicable."

2. WP1, Page 7, Second Full Paragraph: This paragraph is modified with addition of the following sentence - "Any alternate disposal method proposed must be approved by the U.S. EPA before being implemented."

3. WP1, Page 8, Last Paragraph: This paragraph is modified by deletion of the following sentence - "These materials may be washed and staged adjacent to the pit in order to be managed with other debris encountered in future actions at the site." The following sentence shall replace the deleted sentence - "Some of these materials may be decontaminated and disposed as non-hazardous solid waste."

Please attach these modifications to WP1 and ensure all subcontractors are aware of them.

Sincerely,

Cindy Nolan
On-Scene Coordinator

for Paul R. Steadman
On-Scene Coordinator

cc: Patrick Doyle, North Shore Gas
Russ Selman, Bell, Boyd & Lloyd
Sean Mulroney, U.S. EPA ORC

December 9, 1991

**TO:** Jerry F. Picha
North Shore Gas Co.

**FROM:** John L. Courtney, CWM-ENRAC JLC

**SUBJECT:** JANUARY 5, 1991 DEADLINE FOR REMOVAL, SOLIDIFICATION, TRANSPORTATION, AND DISPOSAL OF FREE TAR FROM THE WAUKEGAN TAR PIT SITE

Removal of Free Tar at the Waukegan Tar Pit site has been limited because of increase quantities of water (because of rain and snow at the site). CWM-ENRAC feels that in order to meet the January 5, 1992 deadline for removal of free tar we will need to discharge water at a higher rate then 30,000 gallon per day. CWM-ENRAC's project schedule and subsequent agreement with North Shore Gas did not limit us to a discharge limit of 30,000 gallons per day. CWM-ENRAC has constructed the following three (3) alternatives that we feel will help meet the January 5, 1992 schedule:

1) Increase discharge to a level that exceeds the inflow of groundwater into the pit. A discharge rate can be determined by CWM-ENRAC.

2) CWM-ENRAC will mobilize additional storage capacity but the cost for mobilization and use of this additional equipment will be charged to North Shore Gas.

3) CWM-ENRAC can seek off-site disposal for the waste water at the rate specified in the contract.

CWM-ENRAC would appreciate a timely response considering the approaching deadline.

If there are any questions, please contact me at 708-263-0270 or (708)361-8400.

JC/pkm

Printed on recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

JAN 28 1992

RECEIVED
FEB 03 92

HSE-5J

**TRANSMISSION VIA FACSIMILE AND THE U.S. MAILS**

REPLY TO THE ATTENTION OF:

Mr. Lawrence D. Dalen, P.E.,
Vice-President
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, Minnesota 55437-1026

RE: Request for Official Notification of Completion of Phase I at the Waukegan Tar Pit Site (WTPS) and Revised Work Plan for Phase II, EOC Study, at WTPS; Adm. Order #V-W-'91-C-115

Dear Mr. Dalen:

This Agency has conducted an inspection of the progress made in the completion of Phase I of the removal action at the WTPS on January 13 and 21, 1992 in accordance with the Unilateral Administrative Order issued for this site and at the request of Mr. Patrick Doyle of the North Shore Gas Company on January 17, 1992. This Agency has determined that satisfactory progress has been made in the removal of the " visible free tar " from the pit. Verbal notification was given to your company's associate, Thomas Mattison, of our findings in this matter. However, official written notification from North Shore Gas or the other responsible parties or by way of their contractor should be made to this Agency to inform us that all responsible parties certify and attest to the fact that Phase I completion requirements, in accordance with the UAO have been fulfilled. To date, this requirement is outstanding.

On the matter of the Extent Of Contamination (EOC) study which fulfills Phase II requirements, we await incorporation of this Agency's comments to that revised plan which were submitted to your company on or about January 6, 1992 and discussed in detail during a meeting which was held on January 14, 1992. It was agreed during that meeting that a revised work plan to undertake the EOC would be submitted to this Agency for approval prior to the onset of any activities which would encompass Phase II.

We look forward to your inputs on these aforementioned matters as progress continues to satisfy the removal of the environmental contamination hazards associated with the WTPS.

Very truly yours,

Paul R. Steadman

Paul R. Steadman, OSC
Emergency & Enforcement Response Branch

Printed on Recycled Paper

**Barr**
Engineering Company

8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

**FILE COPY**

January 30, 1992

Mr. Paul Steadman
On-Scene Coordinator
U.S. EPA (5HS-12)
230 S. Dearborn Street
Chicago, IL 60604

RE: Waukegan Tar Pit Site (WTPS)
Docket No. V-W-'91-C-115

Dear Mr. Steadman:

This letter is prepared at the request of North Shore Gas Company and Elgin, Joliet and Eastern Railway Company.

The removal of free tar from the tar pit (WTPS) was completed January 10, 1992. Currently work is proceeding at the site on the completion of other elements of the Free Tar Removal Work Plan (WP1) such as the installation of liner, placement of berm, and completion of decontamination and demobilization.

If you have any questions, please contact me at 612-832-2670.

Sincerely,

Lawrence D. Dalen

LDD/lah
c: Sean Mulroney
Pat Doyle
Russ Selman
Andrew Armstrong
13\49\004\PS4.LTR

**Barr**
Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437-1026
Phone: (612) 832-2600
Fax: (612) 835-0186

December 10, 1991

Ms. Candy Morin
Illinois Environmental Protection Agency
Division of Water Pollution Control/Permits
2200 Churchill Road
Springfield, IL 62794-9276

Re: Permit No. 1991-EN-4216

Dear Ms. Morin:

As we discussed today, North Shore Gas is requesting a supplemental permit to increase the maximum discharge allowed from the Waukegan Tar Pit site. Enclosed is a draft copy of form WPC-PS-1. We will obtain signatures from North Shore Gas and the North Shore Sanitary District and submit the signed WPC-PS-1 shortly. As you indicated, the Professional Engineer certification is not required for this request.

It is necessary to remove water from the tar pit at a faster rate than 30,000 gallons per day in order to progress with the tar removal work. The Contractor, Chemical Waste Management, Inc. has oil/sediment removal equipment and granular activated carbon filter equipment in place at the site capable of processing 100 gallons per minute (144,000 gallons per day). We have discussed an increase in the discharge volume with Brian Dorn of the North Shore Sanitary District, and he indicated that this additional hydraulic loading was not expected to be a problem, as long as the chemical loading remained below the limits they have named.

Because of the need for, and the capability to increase the discharge of water, we request that the daily maximum flow be increased to 144,000 gallons.

We request that this increase be applicable regardless of the source of the water -- surface or groundwater.

Thank you for your prompt attention to this matter. If you have any questions, do not hesitate to call.

Yours truly,

James R. Langseth

JRL/ymh
Enclosure
c: Brian Dorn
Pat Doyle
Russ Selman
Jerry Picha
13\49\004\CM.LTR

For IEPA Use:
Log Number:
Date Received:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Permit Section
Springfield, Illinois 62706

# Application For Permit Or Construction Approval

WPC-PS-1

1. **Name and Location:**

Name of project: Free Tar Removal, Waukegan Tar Pit Site, IEPA Permit No. 1991-EN-4216

Municipality or Township: Waukegan County: Lake

2. **Brief Description of Project:** Removal of free tar from a low area at the site, in accordance with U.S. EPA unlateral Administrative Order, Docket No. V-W-'91-C-115

3. **Documents Being Submitted:** If the project involves any of the items listed below, submit the corresponding schedule, and check the appropriate spaces. See Attachment 1

Project

| | | | |
|---|---|---|---|
| Private Sewer Connection | A ____ | Spray Irrigation | H ____ |
| Public Sewer Extension | B ____ | Septic Tanks | I ____ |
| Sewer Extension Construct Only | C ____ | Industrial Treatment or Pretreatment | J ____ |
| Sewage Treatment Works | D ____ | Cyanide Acceptance | L ____ |
| Excess Flow Treatment | E ____ | Updating Cyanide Acceptance Form | M ____ |
| Lift Station/Force Main | F ____ | Waste Characteristics | N ____ |
| Sludge Disposal | G ____ | Erosion Control | P ____ |
| | | Trust Disclosure | T ____ |

4. **Land Trust:** Is the project identified in item number 1 herein, for which a permit is requested, to be constructed on land which is the subject of a trust? ☐ Yes ☒ No

If yes, Schedule T (Trust Disclosure) must be completed and item number 7.1.1 must be signed by a beneficiary, trustee or trust officer.

Plans:-Title NA Number of Pages: NA

Specifications: Title NA Number of Books/Pages: NA

Other Documents (Please Specify) NA

5. **This is an Application for (Check Appropriate Line):**

____ A. Joint Construction And Operating Permit
____ B. Authorization To Construct (See Instructions) NPDES Permit No. IL00____ Issue Date ____
X C. Construct Only Permit (Does Not Include Operations)
____ D. Operate Only Permit (Does Not Include Construction)

6. **Certifications and Approval:** NA

6.1 **Certificate by Design Engineer**
I hereby certify that I am familiar with the information contained in this application, including the attached schedules indicated above, and that to the best of my knowledge and belief such information is true, complete and accurate. The plans and specifications (specifications other than Standard Specifications or local specifications on file with this Agency) as described above were prepared by me or under my direction.

Engineer ____ Name ____ Registration Number ____ Seal

Firm: ____

Address: ____

____ Phone Number: /

Signature X .....

7. **Certifications and Approvals for Permits:**

7.1 **Certificate by Applicant(s)**
I/We hereby certify that I/we have read and thoroughly understand the conditions and requirements of this Application, and am/are authorized to sign this application in accordance with the Rules and Regulations of the Illinois Pollution Control Board.
I/We hereby agree to conform with the Standard Conditions and with any other Special Conditions made part of this Permit.

7.1.1 Name Of Applicant For Permit Or Authorization To Construct NORTH SHORE GAS COMPANY

3001 GRAND AVE (Street) WAUKEGAN (City) IL. (State) 60085 (Zip Code)

Signature X Patrick J. Dagle

Title VICE PRESIDENT - OPERATIONS Organization NORTH SHORE GAS CO.

*The IEPA is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.*

7.1.2 Name Of Applicant For Permit To Own and Operate _____

Street City State Zip Code

Signature X .....

Title _____

7.2 Attested (Units of Government)

Signature X ..... Date _____ Title _____

(City Clerk, Village Clerk, Sanitary District Clerk, Etc.)

7.3 Applications from non-governmental applicants which are not signed by the owner, must be signed by a principal executive officer of at least the level of vice president, or his duly authorized representative.

7.4 Certificate By Intermediate Sewer Owner

I hereby certify that (Please check one):

X 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the Environmental Protection Act or Subtitle C, Chapter I, or

_____ 2. The Illinois Pollution Control Board, in PCB _____ dated _____, granted a variance from Subtitle C, Chapter I to allow construction and operation of the facilities that are the subject of this application.

Name and location of sewer system to which this project will be tributary:

Waukegan Interceptor Sewer

Sewer System Owner North Shore Sanitary District

P.O. Box 750 Russell Road Gurnee Il. 60031

Street City State Zip Code

Signature X ..... Date 12/11/91 Title ENGINEER-DESIGN & CONSTRUCTION

7.4.1 Additional Certificate By Intermediate Sewer Owner

I hereby certify that (Please check one):

_____ 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the Environmental Protection Act or Subtitle C, Chapter I, or

_____ 2. The Illinois Pollution Control Board, in PCB _____ dated _____, granted a variance from Subtitle C, Chapter I to allow construction and operation of the facilities that are the subject of this application.

Name and location of sewer system to which this project will be tributary: _____

Sewer System Owner _____

Street City State Zip Code

Signature X ..... Date _____ Title _____

7.5 Certificate By Waste Treatment Works Owner

I hereby certify that (Please check one):

X 1. The waste treatment plant to which this project will be tributary has adequate reserve capacity to treat the wastewater that will be added by this project without causing a violation of the Environmental Protection Act or Subtitle C, Chapter I, or

_____ 2. The Illinois Pollution Control Board, in PCB _____ dated _____, granted a variance from Subtitle C, Chapter I to allow construction and operation of the facilities that are the subject of this application.

I also certify that the industrial waste discharges described in the application is capable of being treated by the treatment works, and such waste discharges will be in compliance with all currently applicable local, state or federal pretreatment requirements.

Name and location of waste treatment works to which this project will be tributary: Waukegan STP

Treatment Works Owner North Shore Sanitary District

P.O. Box 750 Russell Road Gurnee IL. 60031

Street City State Zip Code

Signature X ..... Date 12/11/91 Title ENGINEER-DESIGN & CONSTRUCTION

ATTACHMENT 1

- No. 3 not applicable.

- This is a request for a supplemental permit to increase the maximum allowable discharge from 30,000 GPD to 144,000 GPD. See attached letter from Barr Engineering Co. to Candy Morin dated December 10, 1991, which is incorporated by reference as a part of this application.

NORTH SHORE SANITARY DISTRICT
POST OFFICE BOX 750, RUSSELL ROAD, GURNEE, ILLINOIS 60031
708/623-6060 FAX 708/623-3205

BOARD OF TRUSTEES
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GENERAL MANAGER GENE D. LUKASIK

SECRETARY DOROTHY A. BAKER

ATTORNEY MURRAY R. CONZELMAN

November 11, 1991

Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437-1026

Attn: James R. Langseth

Re: Sanitary Sewer Connection Permit For
Waukegan Tar Pit Site

Dear Mr. Langseth:

We have reviewed the IEPA permit application and supplemental information which was submitted for the referenced project and have the following comments:

1) The organic pollutant discharge limit requirements for the site are as follows. The concentration of any volatile organic compound shall not exceed 1.00 ppm. The concentration of any semi-volatile organic compound shall not exceed 0.50 ppm. The concentration of the total organic pollutants being discharged (all concentrations combined) shall not exceed 10 ppm. The mass loading of all combined organic pollutants shall not exceed 0.50 lb./day. These discharge limitations are to be met at all times for both concentrations and mass loadings. In addition to these limits, all other NSSD discharge limits must be met.

   The monitoring requirements for this discharge are extensive and must be adhered to at all times. The discharge and pretreatment system effluent must be sampled for District monitoring requirements daily during the start-up phase. The sampling must consist of five grab samples, each for Volatile Organics and Base/Neutral Organics, taken at evenly spaced intervals during the day when the system is running. These samples will be delivered to the District's main laboratory where they will be composited into one sample for each type of GC/MS analysis.

   Operational records detailing discharge volume for the day must also be submitted with the samples on a daily basis.

The District's Waukegan STP facility influent and effluent will also be sampled on a daily basis for GC/MS analysis while the sludge will be sampled three times a week. This sampling and analysis regimen will begin at start-up and continue until District staff is confident no detrimental effects are occurring at its plant and that the pretreatment system is being operated to its best practical efficiency.

If at any time the discharge from the system exceeds the concentration or poundage limits or begins to affect the operation of the Waukegan Plant, the system must be shut down immediately. No further discharge may occur until the District staff evaluates the situation and determines when, and under what conditions, the system may restart operations.

Once the pretreatment system has demonstrated its ability to consistently produce an acceptable effluent and the Waukegan Plant has suffered no adverse effects in accepting the wastestream, the above monitoring requirements can then be re-evaluated. It is anticipated all sampling could be reduced from daily to weekly, and possibly semi-weekly, as the remediation project continues.

North Shore Gas Company will be responsible for all sampling and analytical costs which the District incurs as a result of this project. This includes samples from both the site pretreatment system and the District plant samples. The cost of each GC/MS analysis for the Volatile Organics will be $180.00. The GC/MS analysis for the Base/Neutral Organics will be $300.00 per sample. Should more extensive GC/MS analyses be required (ie. identification of other compounds/contaminants) the costs would be $269.95 and $337.95 respectively, per analysis. If the District personnel are used for the actual sampling at the site or if they pick up the samples for delivery to the District laboratory, the fee will be $8.60 per site visit.

These cost quotes are current based upon the most recent analytical fee schedule. Should there be a revision to the District's fees, the above costs will be adjusted to reflect the change.

2) The submittal indicates that a hole two inches larger than the forcemain shall be utilized in the temporary manhole cover. The penetration of the discharge pipe is to be sealed to prevent infiltration into the sanitary sewer system. Furthermore, as this manhole is located outside of the secured tar pit area, adequate measures shall be taken to prevent unauthorized personnel from accessing the manhole and temporary connection.

3) The submittal does not indicate what access to the discharge for sampling purposes is to be provided. Furthermore, some means of flow measuring must be provided to substantiate the volume of waste being discharged to the sanitary sewer.

4) Based upon a potential daily discharge of 30,000 gallons, a connection fee in the amount of $60,000 is required prior to issuance of a NSSD permit. Treatment costs will also be required, based on the ultimate volume and characteristics of the waste being discharged to the Waukegan Sewage Treatment Plant.

Prior to the District executing the IEPA permit applications, Items 1 through 3 need to be fully addressed. Prior to issuance of a NSSD connection permit, the connection fee must be paid.

Hopefully the above information has explained the District's requirements relating to this project. It cannot be over-emphasized that the District may withdraw or modify its acceptance of this waste at anytime should the waste cause difficulties with any aspects of the District's operation or facilities.

Sincerely,

Brian Dorn, P.E.
Engineer of Design & Construction
NORTH SHORE SANITARY DISTRICT

BD:gt

cc: Gene Lukasik, General Manager
William Koepsel, Director of Engineering
Karen Farrell, Director of Laboratory Services

# NORTH SHORE SANITARY DISTRICT

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GENERAL MANAGER GENE D. LUKASIK

SECRETARY DOROTHY A. BAKER

ATTORNEY MURRAY R. CONZELMAN

November 21, 1991

Patrick J. Doyle
Vice President of Operations
North Shore Gas Company
3001 Grand Avenue
Waukegan, IL 60085

RE: Sanitary Sewer Connection Permit for
Waukegan Tar Pit Site

Dear Mr. Doyle:

The following are agreed upon conditions between Peoples Gas (Patrick Doyle) and the North Shore Sanitary District to commence and to continue operations for the clean-up of the tar pit.

1) We have agreed that only one monitoring point will be required, that being the point of discharge from your operations into the North Shore Sanitary District interceptor. The sampling requirement for monitoring is as follows: The sample must consist of five grab samples each for Volatile Organics and Base/Neutral Organics taken at evenly spaced intervals during the day when the system is running. These samples will be delivered to the District's main laboratory in Gurnee where they will be composited into one sample for each type of GC/MS analysis.

   If at any time the discharge from the system exceeds the concentration or poundage limits or begins to effect the operation of the Waukegan Plant, the system must be shut down immediately. No further discharge may occur until the District's staff evaluates the situation and determines when and under what conditions the system may restart operations.

   Once the pretreatment system has demonstrated its ability to consistently produce an acceptable effluent and the Waukegan Plant has suffered no adverse effects in accepting the waste stream, the above monitoring requirements can then be re-evaluated. It is anticipated all sampling will be reduced from daily to weekly and possibly semi-weekly as the clean-up project continues.

North Shore Gas Company will be responsible for analytical costs for monitoring the point of discharge. The cost of each GC/MS analysis for the Volatile Organics and for the Base/Neutral Organics will be in accordance with our published price list.

2) The submittal indicates that a hole 2 inches larger than the force main shall be utilized as a temporary cover. Penetration of the discharged pipe is to be sealed to prevent infiltration into the sanitary sewer system. Furthermore, this manhole is located outside of the secured tar pit area. Adequate measures shall be taken to prevent unauthorized personnel from accessing the manhole and temporary connection.

3) Some means of flow measuring must be provided to substantiate the volume of waste being discharged to the sanitary sewer.

4) Based upon a potential daily discharge of 30,000 gallons, a connection fee in the amount of $60,000 is required for the issuance of a NSSD permit. It is anticipated that the Board of Trustees at their regularly scheduled Board Meeting of November 25th will waive the $60,000 fee for the permit. Treatment costs will also be required based on the ultimate volume and characteristics of the waste being discharged to the Waukegan Sewage Treatment Plant.

Attached to this letter are conditions set forth in the License Agreement signed by both the North Shore Sanitary District and North Shore Gas Company dated the 7th day of November 1991.

Also attached to this letter is an application for permit for construction approval submitted to the Illinois EPA to connect to the North Shore Sanitary District interceptor with all the required signatures. North Shore Sanitary District is waiving the requirement to apply for a commercial or industrial sewer connection in order to expedite the operations to remove the tar from our property as quickly as possible.

Very truly yours,

Eugene D. Lukasik

Gene Lukasik
General Manager
NORTH SHORE SANITARY DISTRICT

GL:gt
enc.

# NORTH SHORE SANITARY DISTRICT

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GENERAL MANAGER GENE D. LUKASIK

SECRETARY DOROTHY A. BAKER

ATTORNEY MURRAY R. CONZELMAN


December 17, 1991

Peoples Gas Light and Coke Company
Room 1035
122 South Michigan Avenue
Chicago, IL 60603

Attn: Mr. Jerry Picha

Re: Waukegan Tar Pit Clean-up

Dear Mr. Picha:

This is to confirm the treatment and sampling charges for the referenced project, per our telephone conversation yesterday.

The treatment cost of water discharged to the District's Waukegan Plant is $1.42 per 1000 gallons in accordance with the District's commercial customer classification. The sampling charges are in accordance with our correspondence to Barr Engineering Co. dated November 11, 1991, a copy of which is attached.

In answer to your question regarding payment of the fees described above, the District will give you the option of paying either on a monthly basis or with a lump sum payment at the completion of the cleanup project.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Brian Dorn, P.E.
Engineer of Design & Construction
NORTH SHORE SANITARY DISTRICT

BD:gt

cc: Gene Lukasik
Karen Farrell
Permit File No. 14377-I