

**FEDERAL ON-SCENE COORDINATOR'S REPORT
COMPREHENSIVE ENVIRONMENTAL RESPONSE,
COMPENSATION, AND LIABILITY ACT
REMOVAL ACTION AT THE INGERSOLL SITE
CHICAGO, COOK COUNTY, ILLINOIS
SITE ID: B5CW**

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V Emergency Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared by:

WESTON SOLUTIONS, INC.
750 East Bunker Court
Suite 500
Vernon Hills, Illinois 60061

Date Prepared:	November 14, 2007
TDD Number:	S05-003-0609-041
Document Control Number:	041-2A-ABIF
Contract Number:	EP-S5-06-04
WESTON START Project Manager:	Sarah Meyer
Telephone Number:	(312) 424-3300
U.S. EPA On-Scene Coordinator:	Thomas Cook


**FEDERAL ON-SCENE COORDINATOR'S REPORT
COMPREHENSIVE ENVIRONMENTAL RESPONSE,
COMPENSATION AND LIABILITY ACT
REMOVAL ACTION AT THE INGERSOLL SITE
CHICAGO, COOK COUNTY, ILLINOIS
SITE ID: B5CW**

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V Emergency Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared by:

WESTON SOLUTIONS, INC.
750 East Bunker Court
Suite 500
Vernon Hills, Illinois 60061

Prepared by:  Date: 11/14/07
Twunjala Bradley, WESTON START Field Lead

Reviewed and

Approved by:  Date: 11/14/07
Sarah Meyer, WESTON START Project Manager

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V**

DATE: November 14, 2007

SUBJECT: ON-SCENE COORDINATOR'S REPORT – CERCLA Removal Action at the
Ingersoll Site, Chicago, Cook County, Illinois, Site ID# B5CW

FROM: Thomas Cook, On Scene Coordinator
Emergency Response Branch, SE-5J

TO: Linda Nachowicz, Chief
Emergency Response Branch, S-6J

Please find attached the United States Environmental Protection Agency (U.S. EPA) Federal On-Scene Coordinator's (OSC) Report for the removal action conducted at the Ingersoll Site (Site), Chicago, Cook County, Illinois. This report follows the format outlined in the National Oil and Hazardous Substances Pollution Contingency Plan, 40 Code of Federal Regulations 300.165. The removal was initiated on April 23, 2007, and was completed on November 2, 2007. The OSC for this Site was Mr. Thomas Cook.

U.S. EPA took this action to mitigate the threats posed by the presence of metals, waste oil, and polychlorinated biphenyls in pits, vaults, storage tanks, water, and soil at the Site which posed an immediate threat to public health, welfare, and the environment. Total project costs under the control of the OSC are estimated at \$2,542,374 of which \$2,459,000 was for the Emergency and Rapid Response Services contractor.

In this report, any indications of specific costs incurred at the Site are only an approximation, subject to audit and final definitization by U.S. EPA. The OSC Report is not a final reconciliation of costs.

Portions of this report's appendices may contain confidential business or enforcement-sensitive information and must be reviewed by the Office of Regional Counsel prior to release to the public. The Site is not on the National Priorities List.

Attachment

cc: Gail Stanuch – SE-5J

Carl Norman – SE-5J

FEDERAL ON-SCENE COORDINATOR'S REPORT
COMPREHENSIVE ENVIRONMENTAL RESPONSE,
COMPENSATION, AND LIABILITY ACT
REMOVAL ACTION AT THE INGERSOLL SITE
SITE ID: B5CW
NPL STATUS: NON-NPL
CHICAGO, COOK COUNTY, ILLINOIS

Removal Dates: April 23, 2007, through November 2, 2007

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
Region V
Division of Superfund
Emergency Response Branch

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
EXECUTIVE SUMMARY OF THE REMOVAL ACTIVITY	1
I. SUMMARY OF EVENTS	1
A. SITE CONDITIONS AND BACKGROUND	1
1. Initial Situation	1
2. Location of Hazardous Substance(s)	4
3. Cause of Release or Discharge	5
4. Efforts to Obtain Response by Responsible Party	5
B. ORGANIZATION OF RESPONSE	5
C. INJURY/POSSIBLE INJURY TO NATURAL RESOURCES	7
1. Content and Time of Notice to Natural Resource Trustees	7
2. Trustee Damage Assessment and Restoration Activities	7
D. CHRONOLOGICAL NARRATIVE OF RESPONSE ACTIONS	7
1. Threat Abatement Actions Taken	7
2. Treatment/Disposal/Alternative Technology Approaches Pursued	25
3. Public Information and Community Relations Activity	24
E. RESOURCES COMMITTED	24
II. EFFECTIVENESS OF REMOVAL ACTIVITIES	24
A. ACTIONS TAKEN BY PRPs	24
B. ACTIONS TAKEN BY STATE AND LOCAL FORCES	24
C. ACTIONS TAKEN BY FEDERAL AGENCIES AND SPECIAL TEAMS	25
III. DIFFICULTIES ENCOUNTERED	25
A. ITEMS THAT AFFECTED THE RESPONSE	25
B. ISSUES OF INTERGOVERNMENTAL COORDINATION	25
C. DIFFICULTIES INTERPRETING, COMPLYING WITH, OR IMPLEMENTING POLICIES AND REGULATIONS	25
IV. RECOMMENDATIONS	25
A. MEANS TO PREVENT RECURRENCE OF THE DISCHARGE OR RELEASE	25
B. MEANS TO IMPROVE RESPONSE ACTIONS	25
C. PROPOSALS FOR CHANGES IN REGULATIONS AND RESPONSE PLANS	25

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
Figure 1-1 – Site Location Map	2
Figure 1-2 – Site Features Map.....	3
Figure 1-3 – Sample Location Map	17
Figure 1-4 – UST, Trench and Pit Locations.....	21

LIST OF TABLES

<u>Table</u>	<u>Page</u>
Table 1– Organization of the Response	6
Table 2 –Waste Disposition Summary	10
Table 3 –UST, Trench and Pit Decontamination Summary	22

LIST OF ATTACHMENTS

Attachment

Attachment A Photographic Documentation

Attachment B Analytical Results

- Attachment B1 Metal Sampling Results for Wastewater
- Attachment B2 PCB Sampling Results for Wastewater
- Attachment B3 PCB Sampling Results for Soil, Oil and Sludge
- Attachment B4 Total Cyanide Sampling Results for Wastewater
- Attachment B5 Oil & Grease Sampling Results for Wastewater
- Attachment B6 VOC Sampling Results for Wastewater
- Attachment B7 SVOC Sampling Results for Wastewater
- Attachment B8 Pesticide Sampling Results for Wastewater
- Attachment B9 Pesticide Sampling Results for Oils and Solids
- Attachment B10 Lead Sampling Results for Soil

**Emergency and Enforcement Response Branch
Office of Superfund, U.S. EPA, Region V**

OSC REPORT STANDARD APPENDICES LIST *

Site Name: Ingersoll Site, Chicago, Cook County, Illinois

Site ID No.: B5CW

Task Order No.: 0057

1. Operational Files	<u>ID#</u>
- Action Memos/Additional Funding	1-A
- POLREPs	1-B
- Site Entry/Exit Log	1-C
- Hot Zone Entry/Exit Log	1-D
- Site Safety Plan	1-E
- Equipment & Expendables Log	1-F
- Site Logs	1-G
- Site Computer Disks	1-H
- Daily Work Orders	1-I
- Site Monitoring Logs	1-J
- Site Maps	1-K
- Site Contacts/Business Cards	1-L
- Site Photos/Videos	1-M
- General Correspondence/Information	1-N
- Newspaper Articles	1-O
- Site Photos/Videos	1-P
- Enforcement	1-Q
2. Financial Files	<u>ID#</u>
- Delivery Orders	2-A
- START Technical Direction Documents	2-B
- Daily Cost Reporting US EPA Form 1900-55's	2-C
- ERCS Invoices	2-D
- RCMS Cost Estimates	2-E
- Subcontractor Bid Sheets	2-F
- START Cost Documentation	2-G

**Emergency and Enforcement Response Branch
Office of Superfund, U.S. EPA, Region V
OSC Report Standard Appendices List (cont'd)**

3. Technical Files	<u>ID#</u>
<ul style="list-style-type: none">- START Site Assessment- Analytical Results/QA/QC- Manifests- Disposal Information- Drum/Vat/Sample Logs- Compatibility Results- Chains of Custody- Waste Profile Sheets	<ul style="list-style-type: none">3A13-B3-C3-D3-E3-F3-G3-H
* All files are arranged in chronological order.	
* Portions of these OSC Report Appendices may contain confidential business information or enforcement-sensitive information and must be reviewed by the Office of Regional Counsel prior to release to the public.	
* Note that certain files for this Site are maintained elsewhere by ERB; these appendices are those files maintained by the OSC during the removal action.	

EXECUTIVE SUMMARY OF THE REMOVAL ACTIVITY

SITE: Ingersoll Site

LOCATION: Chicago, Cook County, Illinois

PROJECT DATES: April 23, 2007, through November 2, 2006

INCIDENT DESCRIPTION:

The Ingersoll Site (Site) is located at 1000 West 120th Street in Chicago, Cook County, Illinois. The Site is bordered by 119th Street to the north, Morgan Street to the east, 120th Street to the south, and vacant industrial properties to the west. The Meridian coordinates for the Site are 41°40'35" North and 87°38'49" West. The Site covers approximately 12 acres and includes 38 interconnected, vacant buildings; a water tower; and a spray pond.

The Site has a 90-year history of industrial machining and oil use. BorgWarner, Inc., (BorgWarner) purchased the property in 1929, and, in that same period, acquired Ingersoll Steel & Disc Company, a manufacturer of agricultural accessories including disc blades. According to former BorgWarner employees, electronic enclosures, hospital beds, bathtubs, sinks, aircraft wing tanks, and bomb shell casings were among the items built at the Site. According to historic Sanborn fire insurance maps, additional Site operations included machining and production of lawn mowers and haymaking tools. The maps also indicated the presence of an electromelt foundry; fuel oil and acid storage tanks; four transformer rooms; an electrical substation; an enameling room; and pickling, dipping, and annealing tanks.

According to the Region V Superfund Environmental Justice Analysis, the area within one mile of the Site has a population that is 98 percent (%) minority. This percentage meets the Region V demographic criterion for identifying an environmental justice case.

Between 1992 and 2004, several environmental investigations had been performed at the Site to document contamination. The investigations documented the following Site contamination:

- Surface and sub-surface oil- and metal-contaminated soils and polychlorinated biphenyl (PCB) contamination inside buildings in areas where transformers had been located;
- Concentrations of lead in soil at the Site that exceeded Illinois Pollution Control Board Class II criteria for soil and groundwater, respectively;
- Concentrations of semi-volatile organic compounds, metals, and PCBs in Site soils that exceeded the Illinois Tiered Approach to Corrective Action Objectives Tier 1 remediation objectives for soil ingestion for industrial-commercial properties;
- Concentrations of PCBs on floors in six of the 13 transformer rooms that were high enough to be regulated by the Toxic Substances Control Act; and
- Asbestos in tile mastic and pipe insulation.

A fire in the summer of 2004 destroyed a portion of the former administration areas located in the southeast portion of the Site. Evidence of vandalism at the Site was extensive during the period the Site was investigated.

In 2006, a United States Environmental Protection Agency (U.S. EPA) time-critical removal was initiated by the U.S. EPA On-Scene Coordinator (OSC) Thomas Cook. U.S. EPA; the Weston Solutions, Inc., (WESTON®) Superfund Technical Assessment and Response Team (START); and Environmental Quality Management, the Emergency and Rapid Response Services (ERRS) contractor, mobilized to the Site on January 16, 2006, to begin removing asbestos-containing material (ACM) from buildings; oils, sludge, and PCB oils from tanks, pits, and vaults; cleaning building surfaces with known PCB contamination; and excavating PCB-contaminated soil and oil.

U.S. EPA removal efforts were conducted for 11 months during 2006, and were discontinued on November 10, 2006, after transportation and disposal of 560,770 gallons of non-hazardous wastewater, approximately 14,310 linear feet of friable ACM as pipe wrap, and 2,420 square feet of ACM as surface material, and 1,100 cubic yards (CY) of low-level PCB-contaminated soil and debris. Additional removal information from this phase of activity can be found in the *Federal OSC's Report, Comprehensive, Environmental Response, Compensation, and Liability Act (CERCLA) Removal at the Ingersoll Site* (December 22, 2006).

On February 27, 2007, U.S. EPA, WESTON START, and ERRS contractors re-mobilized to the Site to conduct a subsurface investigation to locate and characterize any oil, metal, or PCB contamination at the Site. Seventy-nine soil borings were completed and logged throughout the Site, and samples from these borings were analyzed for metals and PCBs. Results of the investigation indicated widespread subsurface hydrocarbon staining, odor, and free product to depths up to 11 feet below ground surface; concentrations of PCBs and metals in defined areas that exceeded human and environmental health and welfare risk criteria; and four vaults and pits previously unidentified. A complete report of the investigation results can be found in WESTON's *Geoprobe and Soil Sampling Event Letter Report* (March 30, 2006).

ACTIONS: On April 12, 2007, U.S. EPA requested additional CERCLA funding to continue the time-critical removal action at the Site and address the findings of the February 2007 site investigation to mitigate the risks to human health, welfare, and the environment posed by conditions at the Site. On April 23, 2007, U.S. EPA, WESTON START and ERRS mobilized to the Site to:

- Remove, transport and dispose of remaining contaminated solids in subsurface vaults, pits and underground storage tanks;
- Transport and dispose of low-level PCB-contaminated soil and debris;
- Recover, transport, and dispose of low-level PCB-contaminated oil and sludge present in subsurface piping; and
- Perform on-site treatment of low-level PCB-contaminated wastewater recovered from subsurface manholes and piping using the U.S. EPA Region V Springfield Belle mobile treatment unit.

Removal activities were completed on November 2, 2007. ERRS treated and discharged 569,500 gallons of non-hazardous wastewater; and disposed of 1,700 CY of low-level PCB-contaminated debris.

Thomas Cook, On-Scene Coordinator
U.S. EPA, Region V
Chicago, Illinois

I. SUMMARY OF EVENTS

A. SITE CONDITIONS AND BACKGROUND

1. Initial Situation

The Ingersoll Site (Site) is located at 1000 West 120th Street in Chicago, Cook County, Illinois. The Site is bordered by 119th Street to the north, Morgan Street to the east, 120th Street to the south, and vacant industrial properties to the west (Figure 1-1). The Meridian coordinates for the Site are 41°40'35" North and 87°38'49" West. The Site covers approximately 12 acres and includes 38 interconnected, vacant buildings; an aboveground storage tank (AST); and a Spray Pond (Figure 1-2). A fire in the summer of 2004 destroyed a portion of the former administration areas located in the southeast portion of the Site. Evidence of vandalism at the Site in the form of broken windows, compromised fencing, graffiti, and stripped wiring is extensive.

The Site has a 90-year history of industrial machining and oil use. BorgWarner, Inc., (BorgWarner) purchased the property in 1929, and, in that same period, acquired Ingersoll Steel & Disc Company, a manufacturer of agricultural accessories including disc blades. According to former BorgWarner employees, electronic enclosures, hospital beds, bathtubs, and sinks were also manufactured on site. During the Korean War, wing tanks were built at the Site. During the Vietnam War, bomb shell casings were made at the Site. According to site files, Ingersoll Rand Company, Limited, currently owns the Site.

Sanborn fire insurance maps have provided additional historic information about the Site:

- The 1911 map indicates that the eastern portion of the Site was operated by Whitman & Barnes Manufacturing Company for the production of lawn mowers and haymaking tools. Included on the 1911 map were a machine shop, oil house, gas machine room, underground gas oil tank, fuel oil tanks, four heater rooms, two engines, and two dynamos.
- The 1939 map indicates that the Site was operated by the Ingersoll Steel Disc Division of BorgWarner, Inc. This map shows many additions to the Site including four transformer rooms, a Commonwealth Edison electrical substation, an enameling room, an AST for oil, three oil houses, and a pickling area.
- The 1950 Sanborn map shows additions to the Site, including a sulfuric acid tank, additional enameling rooms, and a cleaning room.
- The 1975 Sanborn map indicates additions to the Site including an electromelt foundry, a dipping room, an oven, and an annealing room. In recent years, the former foundry building was used as storage space.

Image Source:
Map Mart

Ingersoll Removal Site
1000 West 120th Street
Chicago, IL 60643



Legend

— Approximate
Site Boundary

0 800
Feet



Prepared for:
USEPA REGION V

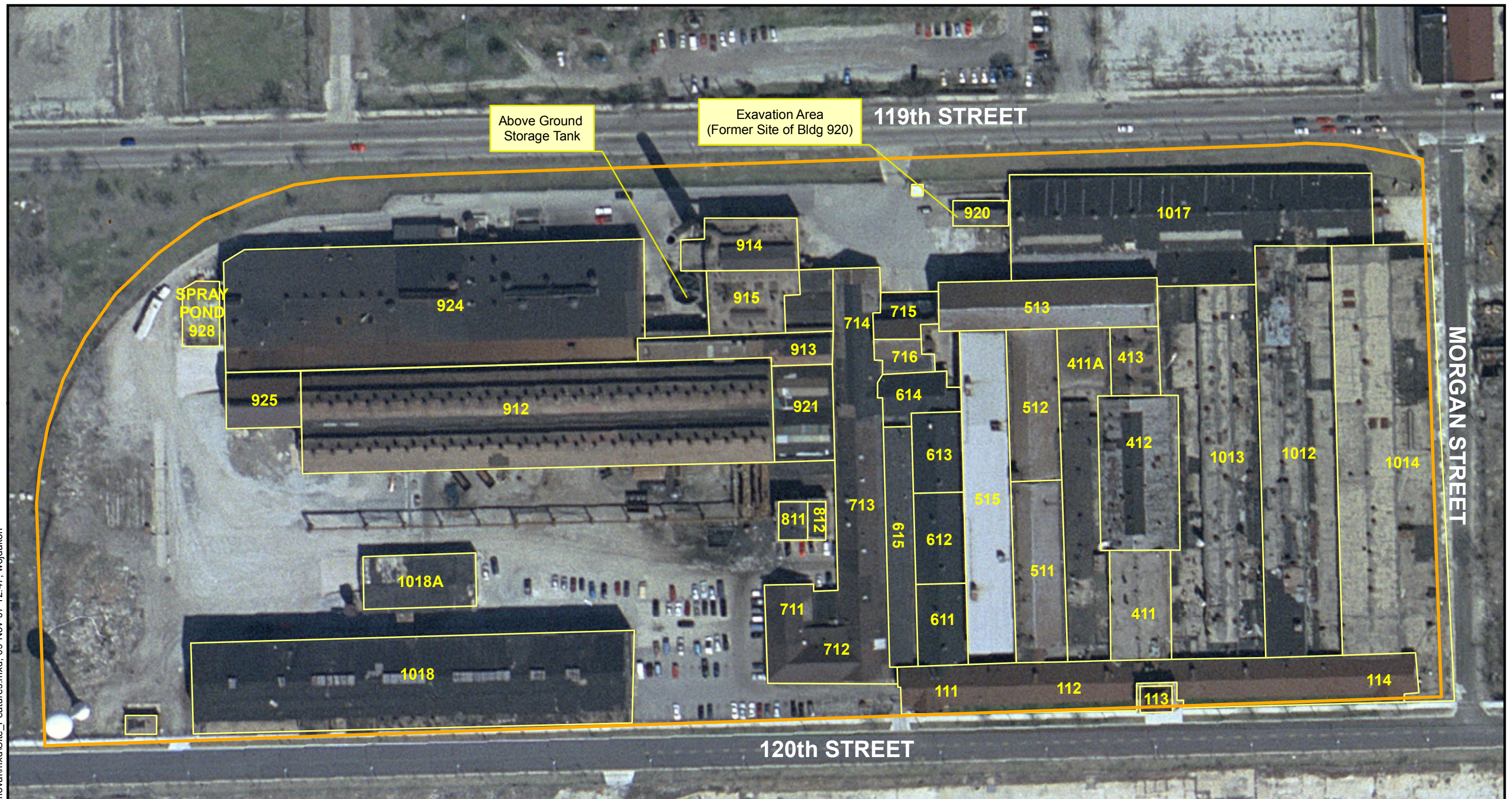
Contract No.: EP-S5-06-04
TDD: S05-0702-014
DCN: 041-2A-ABIF



Weston Solutions, Inc.
750 E. Bunker Ct. Suite 500
Vernon Hills, IL 60061

Figure 1-1
Site Location Map
Ingersoll Removal Site
1000 West 120th Street
Chicago, IL 60643

File: D:\Ingersoll_Removal\mxd\Site_Features.mxd, 09-Nov-07 12:47, wojdakon



Legend

- Building Outline
- Approximate Site Boundary

0 100
Feet



NOTES:

Imagery obtained
from MapMart.



Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0702-014
DCN: 041-2A-ABIF



Prepared By:
WESTON SOLUTIONS, INC.
750 East Bunker Court
Vernon Hills, IL 60061

Figure 1-2
Site Features Map
Ingersoll Removal Site
1000 W. 120th Street
Chicago, IL 60643

2. Location of Hazardous Substance(s)

Between 1992 and 2007, several environmental investigations were performed at the Site to document contamination. The investigations included:

- July 1992, Roy F. Weston, Inc., Phase I Environmental Site Assessment (ESA): The investigation identified several areas of concern, including surface and sub-surface oil-and metal-contaminated soils and polychlorinated biphenyl (PCB) contamination inside buildings where transformers had been located.
- August 1994, Volatile Sampling Company (VSC), under contract with Ingersoll, Phase II ESA: This investigation included collection of site soils from up to 4 feet below ground surface (bgs) for analysis of the presence of solvents, PCBs, petroleum, volatile organic compounds (VOC), semi-VOCs (SVOC), and metals. VSC also installed and sampled 13 groundwater monitoring wells for concentrations of VOCs, SVOCs, polynuclear aromatic hydrocarbons and metals in groundwater. Results from the investigation indicated that concentrations of lead in soil (up to 0.15 milligrams per kilogram [mg/kg]), and 1,1-dichloroethane in groundwater (0.15 milligrams per liter [mg/L]) at the Site exceeded Illinois Pollution Control Board Class II criteria for soil and groundwater, respectively. No other analytes were detected in site soil or groundwater at concentrations above screening criteria.
- May 1996, Harza Consulting Engineers and Scientists (Harza), Phase I ESA: Harza completed this investigation to evaluate the potential for redevelopment of multiple sites in the area of the Site as brownfields. Harza also investigated the abandoned railroad bed on the northern portion of the Site. No information was available regarding the results of this investigation.
- January 2004, Tetra Tech, Inc. (Tetra Tech), Phase II ESA: Surface soils, subsurface soils to a depth of 11 feet bgs, and groundwater were collected from various locations around the Site, and wipe samples were collected from the floors in the transformer rooms. Results from the study indicated that concentrations of SVOCs, metals, and PCBs in site soils exceeded the Illinois Tiered Approach to Corrective Action Objectives (TACO) Tier 1 remediation objectives for soil based on the ingestion exposure route for industrial-commercial properties. PCB contamination was found in site soils at concentrations ranging from 2 parts per million (ppm) to 3.5 ppm. Furthermore, wipe sampling results indicated that oil containing PCBs at concentrations high enough to be regulated by the Toxic Substances Control Act (TSCA) had contaminated the concrete floors in six of the 13 transformer rooms.
- August 2005, the United States Environmental Protection Agency (U.S. EPA) and Tetra Tech, Superfund Technical Assessment and Response Team (START) Site Assessment: During this investigation, START collected six wipe samples from the stained floors of the transformer rooms for PCB analysis, five bulk samples for asbestos analysis (floor tile, mastic, and pipe insulation), and three liquid waste samples from waste oil pits for PCB and metals analysis.
 - Four wipe samples contained PCB concentrations that exceeded the TSCA remediation objective of 100 micrograms per 100 square centimeters ($\mu\text{g}/100\text{ cm}^2$) for restricted areas. Two wipe samples contained PCB concentrations that exceeded the TSCA remediation objective of $10\text{ }\mu\text{g}/100\text{ cm}^2$ for unrestricted areas. The highest estimated concentration detected was $457,000\text{ }\mu\text{g}/100\text{ cm}^2$.

- The bulk mastic samples contained approximately 2% chrysotile, and the pipe insulation contained up to 3% chrysotile and 40% amosite.
- The liquid waste samples contained low levels of metals and no PCBs. However, a laboratory quality control issue caused the PCB results to be reported as estimates, only.
- In 2006, an 11-month time critical removal effort was conducted by U.S. EPA, WESTON START, and Environmental Quality Management, the Emergency and Rapid Response Services (ERRS) contractor. Hazardous substances and pollutants removed from the Site included asbestos-containing material, non-hazardous wastewater, and PCB-contaminated soil and sludge.
- February 2007, U.S. EPA and WESTON START conducted a subsurface investigation and discovered widespread subsurface hydrocarbon staining, odor, and free product at the Site to depths of 11 feet bgs, and high concentrations of PCBs in soil and oil, free product in vaults and pits, high levels of lead in soil, and elevated concentrations of metals throughout the Site. A complete report of the investigation results can be found in WESTON's *Geoprobe and Soil Sampling Event Letter Report* (March 30, 2006).

Based on the results of the 2007 subsurface investigation, which indicated the presence of metals and PCBs in defined areas of soil and/or groundwater at concentrations that exceeded human and environmental health and welfare risk criteria, U.S. EPA approved additional CERCLA funding to continue the time-critical removal action at the Site. The additional funding was approved to mitigate the risks to human health, welfare, and the environment posed by conditions at the Site.

3. Cause of Release or Discharge

Oil, metals, and PCBs were commonly used at manufacturing facilities that were active during the same time that the Site was active. PCBs were added to oils and paints used in and around heat-producing equipment, such as transformers, until 1979 when U.S. EPA banned the manufacture of PCBs and began to phase out PCBs in manufacturing. Machine oils and lubricants were likely used in on-site machinery and equipment during the time the Site was active. Over time, rain water possibly entered pits, underground storage tanks (USTs), and vaults through dilapidated building exteriors. Spills and releases of PCB- and heavy-metal-containing materials during and after site operation could have led to the conditions at the Site at the time of the U.S. EPA site assessments.

4. Efforts to Obtain Response by Responsible Party

U.S. EPA conducted a title search for the Site, which indicated that Ingersoll Rand Company owned the Site until they filed for bankruptcy in 2002. U.S. EPA submitted a 104E to Ingersoll Rand Company in 2005 and did not get a response from the Ingersoll Rand Company. Additional information regarding contact with the potentially responsible party (PRP) is available from the Chicago Department of the Environment (CDOE)

B. ORGANIZATION OF RESPONSE

U.S. EPA, WESTON START, and ERRS, re-mobilized to the Site on April 23, 2007. Consistent with the 2005 U.S. EPA Action Memorandum, the team began treatment of wastewater with the Springfield Belle mobile treatment unit and removal of oils, sludges, and PCB-contaminated oils from tanks, pits, and vaults; cleaning building surfaces known to contain PCB contamination; and excavating PCB- and oil-contaminated soil. Table 1 summarizes the organization of the response.

Table 1
Organization of the Response
Ingersoll Site
Chicago, Cook County, Illinois

Agencies or Parties Involved	Contact	Description of Participation
U.S. EPA – Region V Division of Superfund Emergency Response Branch 77 West Jackson Boulevard Chicago, Illinois 60604 (312) 886-7182	Thomas Cook	Federal OSC responsible for overall project oversight and success.
Weston Solutions, Inc. 20 North Wacker Drive, Suite 1210 Chicago, Illinois 60606 (312) 424-3300	Sarah Meyer	WESTON START project manager responsible for removal oversight support, documentation, sampling, and START-related cost-tracking.
Weston Solutions, Inc. 750 East Bunker Court, Suite 500 Vernon Hills, Illinois 60061 (847) 918-4000	Twunjala Bradley	WESTON START on-site personnel responsible for removal oversight support, documentation, air monitoring, sampling, and START-related cost-tracking.
Environmental Quality Management, Inc. 1800 Carillon Boulevard Cincinnati, Ohio (800) 500-0575	Robert Armstrong	Response manager responsible for direction of daily ERRS activity. Provided personnel and equipment necessary for removal and coordinated transportation and disposal of waste streams. Also tracked ERRS-related costs.
Chicago Department of Environment 30 N. La Salle, Suite 2500 Chicago, Illinois 60602 (312) 744-7606	Dave Graham	CDOE project manager who participated in initial assessment of the Site prior to initiation of U.S. EPA response.

CDOE – Chicago Department of Environment

ERRS – Emergency and Rapid Response Services

OSC – On-Scene Coordinator

START – Superfund Technical Assessment and Response Team

U.S. EPA – United States Environmental Protection Agency

WESTON – Weston Solutions, Inc.

C. INJURY/POSSIBLE INJURY TO NATURAL RESOURCES

1. Content and Time of Notice to Natural Resource Trustees

(Not Applicable)

2. Trustee Damage Assessment and Restoration Activities

(Not Applicable)

D. CHRONOLOGICAL NARRATIVE OF RESPONSE ACTIONS

1. Threat Abatement Actions Taken

U.S. EPA and ERRS re-mobilized to the Site on April 16, 2007, to begin installation of temporary facilities (two site trailers) and utilities, and stage materials and heavy equipment, including the U.S. EPA Springfield Belle mobile water treatment unit. The Springfield Belle is owned by the U.S. EPA Emergency Response Branch and uses diatomaceous earth, sand, and carbon media to eliminate suspended solids and pollutants from water that is pumped through the system.

Removal activities commenced on April 23, 2007, at which time WESTON START mobilized to the Site to begin documenting removal activities. Security was established for the Site during non-working hours for the duration of the removal. Photo documentation of removal activities is presented in Attachment A.

From April 23, 2007, through May 31, 2007, WESTON START performed the following removal activities at the Site:

- Set-up site files, updated the START Health and Safety Plan, and submitted a Sampling and Analysis Plan for the treated effluent from the Springfield Belle water treatment unit.
- Monitored the atmospheric conditions of the basement vault at the former site of Building 920 while ERRS entered the space to clean-out and remove oily sludge material with a Bobcat. A MultiRae was used to monitor oxygen, lower explosive limit, hydrogen sulfide, and carbon monoxide in the vault. Concentrations of all parameters were at or below background readings.
- Collected the initial influent samples from the Spray Pond before treatment by the Springfield Belle; results were all non-detect for PCBs, VOCs, SVOCs, pesticides, cyanide, and oil and grease. Concentrations of metals were all below Metropolitan Water Reclamation District of Greater Chicago (MWRD) discharge criteria. A summary of analytical data is presented in Attachment B.
- Collected the first round of eight effluent samples from the Springfield Belle. Analytical results included non-detect concentrations for SVOCs, VOCs, PCBs, pesticides, total cyanide, and oil and grease. Concentrations of metals were non-detect and/or detected below MWRD discharge criteria.
- Sampled potential free product from two manholes on 120th Street (south of the Site). One sample (MH01-051107-CoC) consisted of a grey sludge material with a petroleum odor and the second sample (MH02-0521107-AMR) consisted of oily water with a petroleum odor. Analytical results for both samples indicated they did not contain PCBs. A summary of

analytical data is presented in Attachment B. A summary of Site sample locations are presented in Figure 1-3.

- Collected the second round of effluent from the Springfield Belle. Analytical results included non-detect concentrations for SVOCs, VOCs, PCBs, pesticides, total cyanide, and oil and grease. Concentrations of metals were non-detect and/or detected below MWRD discharge criteria. A summary of analytical data is presented in Attachment B.

From April 23, 2007, through May 31, 2007, ERRS performed the following removal activities at the Site:

- Conducted house keeping around the Site in preparation for removal and water treatment activities. ERRS consolidated site debris, repaired breeches in perimeter fence, and staged equipment.
- Prepped the Springfield Belle for operations, including digging a trench using a ditch witch for the installation of electrical cables, assembling approximately 1,100 feet of four-inch polyvinyl chloride (PVC) piping and appurtenances, and connecting piping from the Springfield Belle to various pits and vaults throughout the Site.
- Installed approximately 6,400 pounds of diatomaceous earth, carbon, and sand media into dedicated filtration vessels of the Springfield Belle. Valves, fittings, and industrial-sized hoses were connected to two holding tanks and an oil and water separator (O&W).
- Began excavation of soil and debris from the former site of Building 920 using a large excavator.
- Constructed a ramp into the excavation for ingress and egress of equipment and access to basement vaults.
- Utilized a hoe ram attachment to the large excavator to puncture the concrete wall of the basement at the former site of Building 920.
- Entered the basement vault of Building 920 in Level C personal protective equipment (PPE) with a Bobcat to remove oily sludge.
- Mixed oily sludge encountered in the basement during excavation and wall removal with sawdust for stabilization. Stockpiled the mixture in Buildings 925 and 912.
- Pumped oily water (encountered during removal of basement walls) to the Spray Pond for treatment with the Springfield Belle.
- Loaded 1,100 CY of low-level PCB-contaminated soil and debris onto dump trucks for transport to the Newton County Landfill in Brooks, Indiana, for final disposal. This volume includes soil that was excavated from the former site of Building 920 during the 2006 removal activities and stockpiled and covered in Building 925.
- A summary of the disposition of all site wastes is presented in Table 2.
- Treated and discharged approximately 144,900 gallons of wastewater pumped from the Spray Pond.
- Performed routine maintenance on the Springfield Belle including backwash of filtration vessels.

- Excavated up to one foot of lead contaminated soil from a 20 foot by 30 foot grid area just south of Building 920. The soil was stockpiled in Building 912 until confirmation sampling was conducted.

During this operating period, heavy rains temporarily slowed excavation at the former site of Building 920. Portions of the access road leading into the excavation were washed away. ERRS installed wooden planks and bricks to stabilize the pathway and continuously pumped water from the excavation.

The on-site water treatment process and operation and maintenance of the Springfield Belle remained consistent throughout the removal. All wastewater on site was pumped from various pits and vaults through 1,100 feet of four-inch PVC piping to the Spray Pond where it was stored until treated. Wastewater from the Spray Pond was pumped via a submerged pump into a 10,000-gallon steel fractionation (frac) tank and then gravity-fed into an O&W. From the O&W, the influent traveled to a 650-gallon poly tank. From the poly tank, the influent was pumped via a submerged sump pump into the inlet valve of the Springfield Belle. The Springfield Belle treatment process filtered the influent through four separate media vessels to eliminate suspended solids and pollutants; one sand vessel, one diatomaceous earth vessel, and two carbon vessels. Wastewater was treated at a rate of 25 gallons per minute (gpm) to allow for appropriate contact time with the media for the removal of pollutants and suspended solids. Once treated, the effluent was gravity-fed into a separate 10,000-gallon frac tank for storage until discharge.

The effluent was discharged at a rate of approximately 30 gpm into the City of Chicago's sanitary sewer system via an on-site sanitary manhole. Effluent was routinely sampled for metals, VOCs, SVOCs, PCB, pesticides, total cyanide, and oil and grease as stipulated by the *MWRD Environmental Remediation Wastewater Ordinance* (Ordinance). Analytical results obtained prior to initial discharge from the Site to the municipal sewer system confirmed that concentrations of contaminants in the treated effluent met the sewer discharge criteria set forth the Ordinance. The first batch of effluent was discharged after confirmation that effluent samples collected on May 11, 2007, were in compliance with the Ordinance. Periodic effluent sampling throughout the removal confirmed continued compliance with the Ordinance.

WESTON START collected one effluent sample for every 50,000 gallons of discharged wastewater. Effluent samples were picked up on each day of collection by a courier from Microbac Laboratories (Microbac) in Merrville, Indiana. Microbac also performed the aforementioned analyses.

Table 2
Waste Disposition Summary
Ingersoll Site Time-Critical Removal
April 25, 2007 - November 2, 2007

Waste Category	Quantity (CY)	Date Shipped	Manifest Number	Transporter	Disposal Method	Disposal Facility
Low-level PCB-contaminated debris	20	April 25, 2007	042507-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 25, 2007	042507-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 25, 2007	042507-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 25, 2007	042507-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 25, 2007	042507-5	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 25, 2007	042507-7 (Note: no 042507-6; Driver overlooked manifest #6)	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-5	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-6	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-7	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922

Notes:

CY – cubic yards IN - Indiana PCB – Polychlorinated biphenyl

Table 2
Waste Disposition Summary
Ingersoll Site Time-Critical Removal
April 25, 2007 - November 2, 2007

Waste Category	Quantity (CY)	Date Shipped	Manifest Number	Transporter	Disposal Method	Disposal Facility
Low-level PCB-contaminated debris	20	April 26, 2007	042607-8	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-9	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-10	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-11	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-12	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-13	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 26, 2007	042607-14	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-5	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922

Notes:

CY – cubic yards IN - Indiana PCB – Polychlorinated biphenyl

Table 2
Waste Disposition Summary
Ingersoll Site Time-Critical Removal
April 25, 2007 - November 2, 2007

Waste Category	Quantity (CY)	Date Shipped	Manifest Number	Transporter	Disposal Method	Disposal Facility
Low-level PCB-contaminated debris	20	May 22, 2007	052207-6	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-7	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-8	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-9	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-10	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-11	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 22, 2007	052207-12	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 27, 2007	042707-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 27, 2007	042707-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	April 27, 2007	042707-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 30, 2007	053007-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 30, 2007	053007-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922

Notes:

CY – cubic yards IN - Indiana PCB – Polychlorinated biphenyl

Table 2
Waste Disposition Summary
Ingersoll Site Time-Critical Removal
April 25, 2007 - November 2, 2007

Waste Category	Quantity (CY)	Date Shipped	Manifest Number	Transporter	Disposal Method	Disposal Facility
Low-level PCB-contaminated debris	20	May 30, 2007	053007-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 30, 2007	053007-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 30, 2007	053007-5	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 30, 2007	053007-6	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 30, 2007	053007-7	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 30, 2007	053007-8	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-5	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-6	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922

Notes:

CY – cubic yards IN - Indiana PCB – Polychlorinated biphenyl

Table 2
Waste Disposition Summary
Ingersoll Site Time-Critical Removal
April 25, 2007 - November 2, 2007

Waste Category	Quantity (CY)	Date Shipped	Manifest Number	Transporter	Disposal Method	Disposal Facility
Low-level PCB-contaminated debris	20	May 31, 2007	053107-7	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-8	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-9	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-10	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-11	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	May 31, 2007	053107-12	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 1, 2007	060107-01	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 1, 2007	060107-02	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 1, 2007	060107-03	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 1, 2007	060107-04	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 1, 2007	060107-05	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 1, 2007	060107-06	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922

Notes:

CY – cubic yards IN - Indiana PCB – Polychlorinated biphenyl

Table 2
Waste Disposition Summary
Ingersoll Site Time-Critical Removal
April 25, 2007 - November 2, 2007

Waste Category	Quantity (CY)	Date Shipped	Manifest Number	Transporter	Disposal Method	Disposal Facility
Low-level PCB-contaminated debris	20	June 5, 2007	060507-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 5, 2007	060507-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 5, 2007	060507-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 5, 2007	060507-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 5, 2007	060507-5	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 5, 2007	060507-6	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 11, 2007	061107-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 11, 2007	061107-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 11, 2007	061107-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 11, 2007	061107-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 13, 2007	061307-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 13, 2007	061307-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922

Notes:

CY – cubic yards IN - Indiana PCB – Polychlorinated biphenyl

Table 2
Waste Disposition Summary
Ingersoll Site Time-Critical Removal
April 25, 2007 - November 2, 2007

Waste Category	Quantity (CY)	Date Shipped	Manifest Number	Transporter	Disposal Method	Disposal Facility
Low-level PCB-contaminated debris	20	June 13, 2007	061307-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 13, 2007	061307-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 13, 2007	061307-5	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 13, 2007	061307-6	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	June 13, 2007	061307-7	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	November 2, 2007	110207-1	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	November 2, 2007	110207-2	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	November 2, 2007	110207-3	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	November 2, 2007	110207-4	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	November 2, 2007	110207-5	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	November 2, 2007	110207-6	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922
Low-level PCB-contaminated debris	20	November 2, 2007	110207-7	Allied Waste	Landfill	Newton County Landfill 2266 E. 500S Brook, IN 47922

Notes:

CY – cubic yards IN - Indiana PCB – Polychlorinated biphenyl

From June 1, 2007, through July 3, 2007, WESTON START performed the following removal activities:

- Continued routine effluent sampling for every 50,000 gallons of discharged wastewater. Rounds three and four sampling results included non-detect concentrations for SVOCs, VOCs, PCBs, pesticides, total cyanide, and oil and grease. Concentrations of metals were non-detect and/or detected below MWRD discharge criteria (See Attachment B).
- Collected five soil samples and a duplicate (ING-062807-1014-(01-05)) from beneath the demolished concrete machine pad in Building 1014 on June 28, 2007. A grid was established over the demolition area, and samples were collected in a systematic pattern. Samples were analyzed for total PCBs. Results ranged from 0.42 milligrams per kilogram (mg/kg) to 11 mg/kg PCBs and were below the TSCA PCB action level (50 mg/kg). However, concentrations of PCBs in some of the samples exceeded Illinois TACO commercial and industrial worker ingestion criteria (1 mg/kg PCBs). All detected PCBs were in the form of Aroclor 1254 (Attachment B). A summary of Site sample locations is presented in Figure 1-3.
- On June 1, 2007, WESTON START collected confirmation soil samples from an approximately 20 foot by 30 foot grid area south of Building 921 and a stockpile of excavated soil from this area in Building 912. ERRS excavated this area on May 29, 2007 up to a 1 foot depth interval. The area south of Building 921 was considered an area of interest due to the results of sampling during the February 2007 subsurface investigation that revealed lead concentrations of 1,400 mg/kg in soil in this area. The concentration of lead in soil collected on June 1, 2007, was 120 mg/kg in the sample from the grid area (Soil-Grid912-060107-01) and 160 mg/kg in the sample from the stockpile (Soil-Pile-060107-01). These concentrations are below the Illinois TACO, Tier 1 Ingestion Remediation Objective (400 mg/kg).

From June 1, 2007, through July 3, 2007 ERRS performed the following removal activities:

- Completed excavating and stockpiling contaminated soil from the former site of Building 920 with the large excavator.
- Completed backfilling the excavation at the former site of Building 920 with construction debris and borrow fill that had been stockpiled on the southwest side of the Site during the 2006 removal. The top six inches of the excavation area was filled with a fine aggregate and then graded.
- Transported 460 CY of soil and debris excavated from the former site of Building 920 to Newton County Landfill.
- A summary of the disposition of all site wastes is presented in Table 2.
- Completed demolition of the PCB-contaminated concrete machine pad in Building 1014, and removed approximately three inches of soil/debris from beneath the pad. The concrete, soil, and debris from this area were staged on poly sheeting in Building 1014 until disposal.
- Removed all oily soil and debris from the concrete containment area and sump in Building 1014, washed and degreased the area, solidified the debris with sawdust, and packed the oily sawdust and debris into two 55-gallon poly drums.

- Completed pumping water from the USTs on the north edge of Building 924 to the Spray Pond.
- Pumped water from an AST on the north side of the Site to the Spray Pond.
- Treated and discharged 179,500 gallons of wastewater using the Springfield Belle.
- Performed routine system maintenance on the Springfield Belle, including backwashing the filter media vessels inside to remove impurities and resettle the media.
- Determined that on-site wastewater treatment needs could be adequately satisfied with a smaller storage volume in the treatment system, and therefore decontaminated and prepped the O&W, one 10,000-gallon frac tank, and the 650-gallon poly tank from the on-site wastewater treatment system for demobilization. The poly tank was demobilized from the Site on July 3, 2007.

On June 25, 2007, Mr. Myrrick Golliday, of the MWRD, was at the Site to get an update on wastewater discharge progress and collect an effluent sample from the Springfield Belle.

From July 9, 2007, through August 10, 2007, WESTON START performed the following removal activities:

- Conducted air monitoring inside the AST using a MultiRae, consistent with methods described previously, while ERRS removed sludge in the tank. All parameters were detected at or below background.
- Collected three wipe samples (WP-071307-1014 A, WP-071307-1014-B and WP-071307-1014-Sump) from the contaminated concrete pad and sump area in Building 1014 for PCB analysis. Results from two samples, WP-071307-1014-A ($19 \mu\text{g}/100 \text{ cm}^2$) and WP-071307-1014-B ($21 \mu\text{g}/100 \text{ cm}^2$) exceeded the TSCA remediation objective for unrestricted areas ($10 \mu\text{g}/100 \text{ cm}^2$). However, results did not exceed the TSCA remediation objective for restricted areas ($\mu\text{g}/100 \text{ cm}^2$). A summary of Site sample locations are presented in Figure 1-3.
- Collected a fifth round of effluent samples from the Springfield Belle. Analytical results included non-detect concentrations for SVOCs, VOCs, PCBs, pesticides, total cyanide, and oil and grease. Concentrations of metals were non-detect and/or detected below MWRD discharge criteria (See Attachment B).
- Collected a sample, (Pipe-080707-924) of a solid oily mass from a pipe in one of three pits on the north side of Building 924 for PCB analysis. Analytical results reported non-detect for PCB concentrations (See Attachment B).

On August 1, 2007, OSC Cook requested that WESTON START track the location and amount of contents removed from all known USTs on-site. From August 3, to August 7, 2007, WESTON START utilized a Trimble global positioning system (GPS) unit to document the location of on-site USTs, trenches, and pits. The GPS data was used to generate an aerial map of the Site pinpointing six USTs, two pits, and one trench (Figure 1-4). WESTON START also photographed each location and created a database to document the size and contents of each space and track the amount of material removed from each space. See Table 3 for a list of these spaces. Location of on-site USTs, trenches and pits are presented in Figure 1-4.

Table 3
UST, Trench, and Pit Decontamination Summary
Ingersoll Site Time-Critical Removal
August 8, 2007 - October 4, 2007

Location ID	Location	Contents	Quantity (gallons)	Description
UST001-080307-924W	West UST on the north side of Building 924	Oily water	8,000	Contents were pumped to the Spray Pond on August 8, 2007, UST decontaminated and backfilled.
UST002-080307-924E	East UST on the north side of Building 924	Oily water	8,000	Contents were pumped out August 16, 2007, UST decontaminated and backfilled.
UST003-080307-924(EXT)	UST outside Building 924 (northwest side)	Oily water	2,000	Contents were pumped to the Spray Pond on September 28, 2007, using a turbo-vacuum truck, UST
		unknown		
		Oily sludge	1,000	
PIT005-080307-1018	Pit (with manhole cover) inside Building 1018 (along southern wall)	Oily water and sludge	5,000	Contents were pumped to the Spray Pond on October 18, 2007. Manhole continued to recharge.
UST007-1024	UST north of Building 1018 and east of Building 1018A	Oily water	10,000	Contents were pumped to the trench in Building 912 where it was mixed with existing oily material in the trench on September 24 to 28, 2007. UST was decontaminated with a pressure washer.
TR007-080707-912W	Basement trench center of Building 912	Oily water/sludge	15,000	Oily water was pumped to the Spray Pond for treatment; ERRS removed oily sludge from bottom of the trench and solidified with sawdust. Trench
TR007-080707-912E				
PIT002-080707-924(INT)	Pit inside Building 924 along northern wall (northwest side)	oily water	1,500	Oily water was pumped to the Spray Pond for treatment.

Notes:

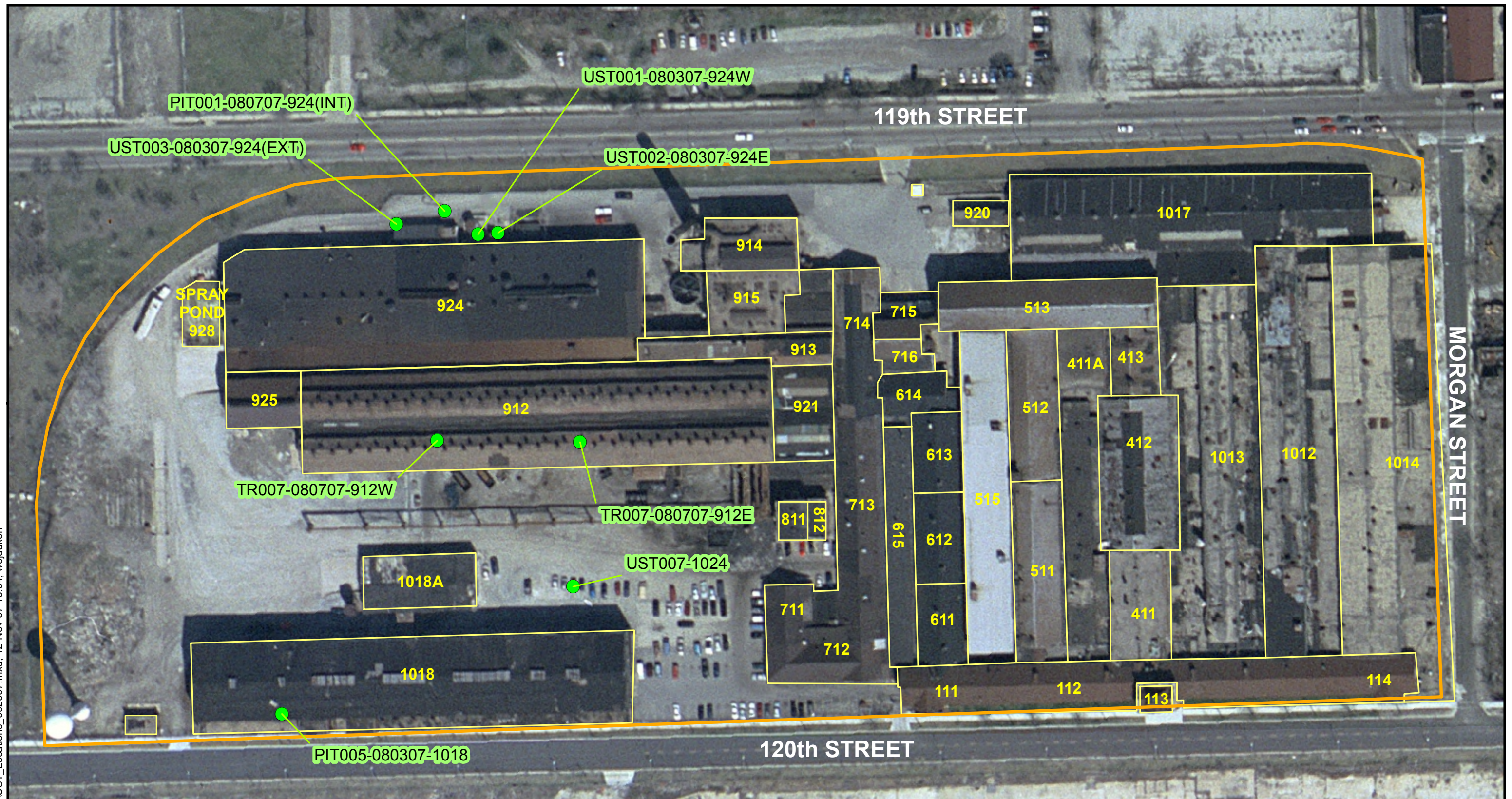
EXT – Exterior

INT - Interior

TR – Trench

UST – Underground storage tank

File: D:\Ingersoll_Removal\mxd\UST_Locations_092607.mxd, 12-Nov-07 13:54, wojdakon



Legend

- Building Outline
- Approximate Site Boundary
- UST Locations

0 100 Feet



NOTES:

Imagery obtained from MapMart.

 Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0702-014
DCN: 041-2A-ABIF

 Prepared By:
WESTON SOLUTIONS, INC.
750 East Bunker Court
Vernon Hills, IL 60061

Figure 1-4
UST, Trench, and Pit Locations
Ingersoll Removal Site
1000 W. 120th Street
Chicago, IL 60643

From July 9, 2007, through August 10, 2007, ERRS performed the following removal activities:

- Demobilized one of the 10,000-gallon frac tanks and the O&W.
- Removed oily sludge from the AST mixing tank west of Building 915, and pumped oily water from the AST to the Spray Pond.
- Cut a 6 foot by 6 foot opening in the AST (using an intrinsically safe cutting device) and removed the remaining sludge material using shovels. Sawdust was mixed with the sludge for solidification prior to removal from the tank. The waste mixture was stored inside Building 912.
- Pumped oily water from the basements of Buildings 924 and 912 to the Spray Pond for treatment.
- Pumped approximately 1,500 gallons of oily water from PIT002-070707-924(INT) (located inside Building 924 along the northern wall) to the Spray Pond for treatment (See Figure 1-4).
- Installed booms and absorbent pads in the Spray Pond to remove the oily film on the surface of the water.
- Cut four 8 foot by 8 foot square openings in the center floor of Building 912 (using an excavator hoe-ram attachment) to expose the basement trench full of oily water and sludge. Prepared the trench for entry, water and sludge removal, and decontamination.
- Removed oil-filled piping and obstructions from the center trench of Building 912 and the furnace basement in Building 924 to clear a path for installation of lighting for additional removal and decontamination activities.
- Continued to treat and discharge 51,900 gallons of wastewater from the Spray Pond using the Springfield Belle.
- Removed concrete debris and obstructions on the north side of Building 924 to expose two steel USTs (UST001-080307-924W and UST002-080307-924E) (Figure 1-3.).
- Pumped oily water from UST001-080307-924W to the Spray Pond. Oily sludge left at the bottom of the tank was mixed with sawdust for solidification and transported to the stockpile in Building 912. The tank was pressure washed and backfilled.
- Removed all the oily water from UST002-080307-924E.

On July 31, 2007, ERRS encountered a live underground utility line on the west side of Building 1018. Eight days earlier, on July 23, 2007, ERRS had submitted a utility request to DIGGER (Commonwealth Edison's [ComEd] one-call center for utility locating in Chicago) due to the addition of excavation locations at the Site. DIGGER submitted an underground utility clearance for the site on July 25, 2007, (DIGGER #720419060) stating that no live utility lines were found along the property line from 120th Street.

While clearing a gravel mound from the Site's entrance gate, the ERRS response manager (RM) noticed an oily substance on the ground surface near Building 1018. The RM decided to investigate to see if the oily material was in fact migrating from a UST in Building 1018. The RM dug a shallow exploratory hole (with the large excavator bucket) to a depth of approximately 3 feet when he encountered a live 13 kilovolt electrical line which immediately shorted and sparked. There were no injuries to personnel and the RM immediately notified the OSC and DIGGER and covered the excavation to prevent exposure.

On August 1, 2007, DIGGER sent a ComEd representative to investigate the incident and to mark underground utility locations. According to ComEd, the live utility line was shown on their maps as de-energized and removed and that there was no explanation for the mistake. ComEd also located a second live utility line east of the first line. However, because of its location on private property, there was no way of investigating if the line branched onto the Site. On August 1, 2007, two ComEd personnel were at the Site to officially locate the live underground wire with sensitive equipment; the line was marked and flagged. ComEd electrical crews were at the Site on August 4 and August 9, 2007, to install new conduit, and informed the RM that the lines would remain energized.

From August 16, 2007 through September 28, 2007, WESTON START performed the following removal activities:

- Collected effluent sample rounds six, seven, and eight from the Springfield Belle for routine monitoring. No results exceeded MWRD discharge criteria. A summary of analytical data is presented in Attachment B.
- Performed air monitoring with a MultiRae near the opening of the UST007-1024. Monitoring results were at or below background levels.

From August 16, 2007, through September 28, 2007, ERRS performed the following removal activities:

- Pumped oily water from the basements of Buildings 914 and 924 to the Spray Pond for treatment. The water had accumulated due to heavy rains. The basement in Building 914 had approximately 3 to 4 feet of standing water.
- Completed removal activities for UST002-080307-924E, including removing oily water from the tank and pumping it to the Spray Pond, and removing sludge and mixing it with sawdust for solidification. The tank was pressure-washed and backfilled with construction fill. Location of on-site USTs, trenches and pits are presented in Figure 1-4.
- Pumped oily water from the basement of Building 924 to the Spray Pond for treatment.
- Continued to replace booms and absorbent pads in the Spray Pond to remove the oily film on the water's surface.
- Continued removing the oily piping and obstructions from the basement in Building 924 and decontaminating the area, including the central basement pit. Decontamination was performed with a Hotsy, a hot water pressure washer. ERRS monitored the atmospheric conditions inside the basement during removal with a MultiRae. Monitoring results were non-detect or below background levels.
- Completed decontamination of the AST south of Building 914 with the Hotsy.
- Discovered UST007-1024 beneath an oil-filled pit at the former location of Building 1024.
- Pumped oily water from UST007-1024 to the trench in Building 912 where it was mixed with existing oily material. Decontaminated UST007-1024 with a pressure washer. Atmospheric conditions were monitored inside the ST007-1024 while ERRS decontaminated. Monitoring results were non-detect or below background.
- Decontaminated UST003-080307-924(EXT) using a turbo-vacuum truck to remove oily sludge from the tank. Entered the space in Level C PPE, using proper confined-space procedures and permitting, to remove oily sludge from the tank. UST003-080307-924(EXT) was decontaminated and backfilled with construction fill.

- Treated and discharged approximately 193,200 gallons of water using the Springfield Belle.

On August 9, 2007, ComEd and their subcontractors were on-site to excavate, repair and replace two underground electrical lines on the west side of Building 1018.

From August 16 through 31, 2007, ERRS temporarily suspended removal of piping and obstructions from the basement trench of Building 912 and basement in Building 924 due to heavy rain events and the need to remove standing water from the basements. In response to the major storm events during this period, ERRS pumped and treated water at the maximum capacity of the Springfield Belle (50 gpm).

From October 1, 2007, through November 5, 2007, WESTON START performed the following removal activities:

- Collected one composite sample (TR-102207-912) from the waste pile in Building 912 for disposal parameters (VOCs, SVOCs, PCBs, and total metals). Based on the analytical results, including a lead concentration of 2,100 mg/kg, and barium concentration of 320 mg/kg, the Newton County Landfill waste profile that had been used previously at the Site was not modified.
- Completed written and photographic documentation of site activity.
- Demobilized all equipment and personnel.

From October 1, 2007, through November 5, 2007, ERRS performed the following removal activities:

- Completed pumping water from the basements in Buildings 912, 914, and 924 to the Spray Pond for treatment.
- Completed removing oily water and sludge from the center trench in Building 912. Oily water was pumped to the Spray Pond for treatment; ERRS removed oily sludge from bottom of the trench and solidified it by mixing it with sawdust. The trench was decontaminated with a pressure washer.
- Consolidated waste piles in Building 912 that were generated from decontamination of the center trench.
- Pumped oily water from PIT005-080307-1018 to the Spray Pond for treatment. Location of on-site USTs, trenches and pits are presented in Figure 1-4.
- Solidified oily sludge in PIT005-080307-1018 by mixing it with sawdust. The mixture was stockpiled in the waste pile in Building 912.
- Cut holes in the bottom of the AST to prevent future water accumulation.
- Treated and discharged all remaining wastewater stored in the Spray Pond on October 18, 2007.
- Decontaminated the Spray Pond with a Hotsy pressure washer.
- Dismantled all temporary piping associated with the Springfield Belle and the Spray Pond.
- Removed all media from the Springfield Belle treatment vessel and decontaminated all associated hard piping, frac tanks, pumps, valves, hoses, and hand tools.

- Collected wipe samples from the frac tank wall and floor (Frac-103007-FIR and Frac-103007-Wall). PCB concentrations were non-detect on the wipes.
- Dismantled the Springfield Belle security fencing and demobilized the unit from the Site on November 1, 2007.
- Consolidated the waste soil and debris pile in Building 912 for disposal.

On November 2, 2007, ERRS completed all site clean-up and restoration and demobilized all personnel and most equipment. Items remaining at the Site on the afternoon of November 2, 2007, included the office trailer, break trailer, and a front-end loader. ERRS also loaded and transported seven loads (140 CY) of non-hazardous waste (consolidated waste and debris from Building 912) to Newton County Landfill for final disposal.

2. Treatment/Disposal/Alternative Technology Approaches Pursued

Two waste streams were identified at the Site for disposal or discharge. The shipping dates, volumes shipped, transporter names, and disposal facilities are summarized in Table 2. The following methods were used to dispose of Site waste streams:

- Wastewater was treated on-site and discharged.
- Low-level PCB-contaminated debris was land-filled.

3. Public Information and Community Relations Activity

(Not Applicable)

E. RESOURCES COMMITTED

Extramural Costs:

Total ERRS Contractor Costs:	\$2,459,000
Total WESTON START Costs:	\$83,374
Extramural Subtotal	\$2,542,374
Estimated Total Project Costs	\$2,541,374
Project Ceiling	\$2,579,500

II. EFFECTIVENESS OF REMOVAL ACTIVITIES

A. ACTIONS TAKEN BY PRPs

Information regarding contact with the PRP is available from the CDOE.

B. ACTIONS TAKEN BY STATE AND LOCAL FORCES

MWRD representatives were at the Site periodically to monitor the sampling of the treated wastewater discharged into the City of Chicago's sanitary sewer system. The Site was not required to obtain a discharge permit as the OSC applied *U.S. Code, Title 42, Chapter 103, Subchapter I, Section 9621(e)* which states that "No federal, state, or local permit shall be required for the portion of any removal or remedial action conducted entirely on site, where such remedial action is selected and carried out in compliance with this section." However, as summarized in Section D1, U.S. EPA monitored the on-site water treatment for compliance with the MWRD Ordinance throughout the

removal.

C. ACTIONS TAKEN BY FEDERAL AGENCIES AND SPECIAL TEAMS

(Not Applicable)

D. ACTIONS TAKEN BY CONTRACTORS, PRIVATE GROUPS, AND VOLUNTEERS

The U.S. EPA ERRS contractor, Environmental Quality Management, conducted the wastewater, oil, and PCB-contaminated soil and debris removal from the Site. ERRS coordinated the transportation and disposal of all waste streams, and arranged for site security, utilities, and the use of necessary equipment, such as the Springfield Belle and associated appurtenances, excavator and attachments, loader, Bobcat, and vacuum truck. All subcontractors were procured by ERRS.

The U.S. EPA START contractor, WESTON, provided technical support for U.S. EPA while on site. In addition, WESTON START performed general and health and safety oversight, documentation of all Site activities, air monitoring, multi-media sampling, and START-related cost tracking.

One contracted laboratory was used to perform all analyses required during removal activities: Microbac Laboratories, located at 250 West 84th Drive, Merrillville, Indiana.

III. DIFFICULTIES ENCOUNTERED

A. ITEMS THAT AFFECTED THE RESPONSE

(Not Applicable)

B. ISSUES OF INTERGOVERNMENTAL COORDINATION

(Not Applicable)

C. DIFFICULTIES INTERPRETING, COMPLYING WITH, OR IMPLEMENTING POLICIES AND REGULATIONS

(Not Applicable)

IV. RECOMMENDATIONS

A. MEANS TO PREVENT RECURRENCE OF THE DISCHARGE OR RELEASE

The OSC has not identified any other additional tasks to be completed before the City of South Bend takes possession of the Site.

B. MEANS TO IMPROVE RESPONSE ACTIONS

(Not Applicable)

C. PROPOSALS FOR CHANGES IN REGULATIONS AND RESPONSE PLANS

(Not Applicable)

ATTACHMENT A
PHOTOGRAPHIC DOCUMENTATION



Photo Number: 01

Photographer: Twunjala Bradley

Direction: Northwest

Subject: The Emergency and Rapid Response Services (ERRS) contractor using a ditch witch to cut a trench for installation and connection of electrical conduit to the Springfield Belle



Site: Ingersoll Removal Site

Date: April 23, 2007

Photo Number: 02

Photographer: Twunjala Bradley

Direction: West

Subject: ERRS filling filter vessels inside the Springfield Belle with media



Site: Ingersoll Removal Site

Photo Number: 03

Direction: East

Subject: ERRS assembling four-inch piping throughout the Site to pump wastewater to the Spray Pond

Date: April 30, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 04

Direction: Northwest

Subject: U.S. EPA Region V Springfield Belle mobile water treatment unit

Date: May 2, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Date: May 2, 2007

Photo Number: 05

Photographer: Twunjala Bradley

Direction: Southeast

Subject: ERRS excavating contaminated soil at the former site of Building 920



Site: Ingersoll Removal Site

Date: May 2, 2007

Photo Number: 06

Photographer: Twunjala Bradley

Direction: Northeast

Subject: ERRS pumping water from the excavation at the former site of Building 920



Site: Ingersoll Removal Site

Date: May 2, 2007

Photo Number: 07

Photographer: Twunjala Bradley

Direction: Northeast

Subject: Oily liquid in one of two manholes along 120th Street; sampled by the WESTON Superfund Technical Assessment and Response Team (START) (MH01-051107-COC)



Site: Ingersoll Removal Site

Date: May 9, 2007

Photo Number: 09

Photographer: Twunjala Bradley

Direction: East

Subject: Soil from the excavation at the former site of Building 920, stockpiled in Building 912



Site: Ingersoll Removal Site

Date: May 9, 2007

Photo Number: 10

Photographer: Twunjala Bradley

Direction: East

Subject: Two openings created to allow access to the basement vault of the former Building 920



Site: Ingersoll Removal Site

Date: May 9, 2007

Photo Number: 11

Photographer: Twunjala Bradley

Direction: Southeast

Subject: ERRS removing oily sludge from the basement vault at the former site of Building 920 with the Bobcat



Site: Ingersoll Removal Site

Photo Number: 12

Direction: North

Subject: ERRS removing oily sludge from basement vault at the former site of Building 920

Date: May 9, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 13

Direction: North

Subject: Oily sludge removed from basement vault at the former site of Building 920

Date: May 9, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 14

Direction: East

Subject: Oily film on the surface of water inside the excavation at the former site of Building 920

Date: May 9, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 15

Direction: East

Subject: Two 10,000-gallon fractionation tanks used to store influent and effluent for the water treatment system

Date: May 11, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Date: May 11, 2007

Photo Number: 16

Photographer: Twunjala Bradley

Direction: East

Subject: Wastewater being transferred through the oil and water separator



Site: Ingersoll Removal Site

Date: May 11, 2007

Photo Number: 17

Photographer: Twunjala Bradley

Direction: Northeast

Subject: 650-gallon poly tank used to temporarily store influent from the oil and water separator before being transferred to the Springfield Belle



Site: Ingersoll Removal Site

Date: May 11, 2007

Photo Number: 18

Photographer: Robert Armstrong

Direction: East

Subject: WESTON START sampling influent from oil and water separator



Site: Ingersoll Removal Site

Date: May 18, 2007

Photo Number: 19

Photographer: Twunjala Bradley

Direction: West

Subject: Untreated influent pumped to the Spray Pond



Site: Ingersoll Removal Site

Photo Number: 20

Direction: West

Subject: Low-level PCB-contaminated soil stockpiled in Building 912

Date: May 18, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 21

Direction: West

Subject: Treated effluent discharged through an on-site sanitary sewer manhole

Date: May 30, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Date: May 30, 2007

Photo Number: 22

Photographer: Twunjala Bradley

Direction: Northeast

Subject: ERRS loading low-level PCB-contaminated soil on haul trucks for transport to final disposal



Site: Ingersoll Removal Site

Date: June 1, 2007

Photo Number: 23

Photographer: Twunjala Bradley

Direction: South

Subject: June 1, 2007, effluent samples collected from the Springfield Belle



Site: Ingersoll Removal Site

Date: June 1, 2007

Photo Number: 24

Photographer: Twunjala Bradley

Direction: East

Subject: Oily sludge released from a pipe inside the basement vault at the former site of Building 920



Site: Ingersoll Removal Site

Date: June 1, 2007

Photo Number: 25

Photographer: Chris Foreman

Direction: East

Subject: WESTON START sampling the grid area (SOIL-GRID912-060107-001) south of Building 921 where ERRS excavated soil



Site: Ingersoll Removal Site

Date: June 1, 2007

Photo Number: 26

Photographer: Chris Foreman

Direction: Northwest

Subject: WESTON START sampling soil (SOIL-PILE-060107-002) from a stockpile removed from the south side of Building 921



Site: Ingersoll Removal Site

Date: June 1, 2007

Photo Number: 27

Photographer: Twunjala Bradley

Direction: Northeast

Subject: ERRS removing walls from basement vault at the former site of Building 920



Site: Ingersoll Removal Site

Date: June 4, 2007

Photo Number: 28

Photographer: Twunjala Bradley

Direction: East

Subject: Standing water and mud in the excavation at the former site of Building 920



Site: Ingersoll Removal Site

Date: June 4, 2007

Photo Number: 29

Photographer: Twunjala Bradley

Direction: East

Subject: Standing water and mud in the excavation at the former site of Building 920



Site: Ingersoll Removal Site

Photo Number: 30

Direction: Southeast

Subject: ERRS mixing sawdust with oily sludge for solidification and transport

Date: June 6, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 31

Direction: East

Subject: ERRS excavating the sludge/sawdust mixture from the excavation at the former site of Building 920

Date: June 6, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Date: June 8, 2007

Photo Number: 32

Photographer: Twunjala Bradley

Direction: East

Subject: ERRS backfilling the excavation at the former site of Building 920 with construction fill



Site: Ingersoll Removal Site

Date: July 17, 2007

Photo Number: 33

Photographer: Twunjala Bradley

Direction: East

Subject: ERRS removing oily sludge from the bottom of the above-ground storage tank (AST) south of Building 914



Site: Ingersoll Removal Site
Photo Number: 34
Direction: East
Subject: The AST south of Building 914

Date: July 18, 2007
Photographer: Twunjala Bradley



Site: Ingersoll Removal Site
Photo Number: 35
Direction: East
Subject: The AST south of Building 914 after sludge removal by ERRS

Date: July 20, 2007
Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Date: July 23, 2007

Photo Number: 36

Photographer: Twunjala Bradley

Direction: West

Subject: Absorbent pads used in Spray Pond to absorb floating oil from wastewater before treatment



Site: Ingersoll Removal Site

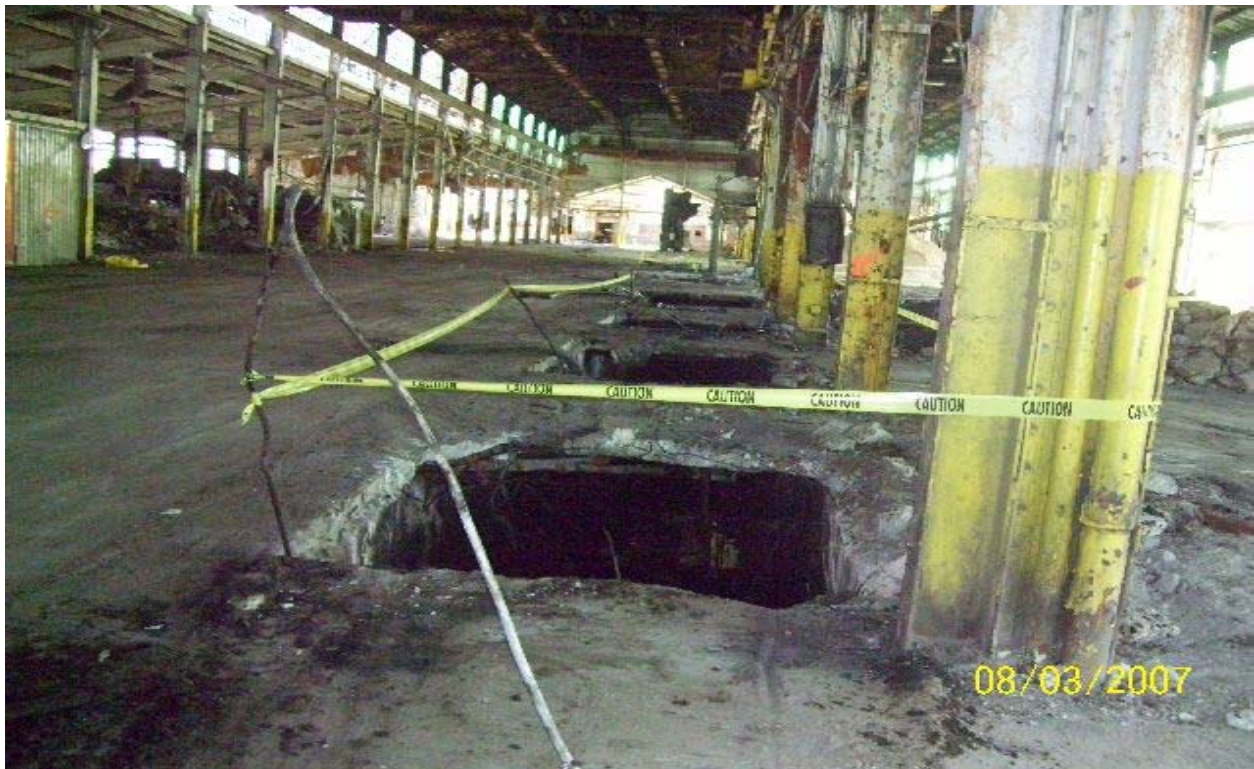
Date: August 3, 2007

Photo Number: 37

Photographer: Twunjala Bradley

Direction: East

Subject: Furnace oven pipe filled with an oily mass in Building 924



Site: Ingersoll Removal Site

Photo Number: 38

Direction: East

Subject: Openings to expose the center trench in Building 912

Date: August 3, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 39

Direction: Northeast

Subject: Oily piping removed during clearing of debris and obstructions from the center trench in Building 912

Date: August 3, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Date: August 7, 2007

Photo Number: 40

Photographer: Twunjala Bradley

Direction: West

Subject: Exposed contents in UST001-080307-924W north of Building 924



Site: Ingersoll Removal Site

Date: August 8, 2007

Photo Number: 41

Photographer: Twunjala Bradley

Direction: East

Subject: Exposed contents in UST002-080307-924E north of Building 924



Site: Ingersoll Removal Site

Photo Number: 42

Direction: East

Subject: ERRS decontaminating the basement in Building 924 with a pressure washer

Date: September 27, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 43

Direction: Southeast

Subject: A turbo vacuum truck used to pump water from the basement in Building 924

Date: September 27, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Date: September 28, 2007

Photo Number: 44

Photographer: Twunjala Bradley

Direction: South

Subject: ERRS decontaminating UST003-090307-924(EXT) northwest side of Building 924



Site: Ingersoll Removal Site

Date: October 1, 2007

Photo Number: 45

Photographer: Twunjala Bradley

Direction: Northeast

Subject: ERRS pumping water from center trench in Building 912 with a turbo vacuum truck



Site: Ingersoll Removal Site

Photo Number: 46

Direction: East

Subject: ERRS pumping water and decontaminating the center trench in Building 912

Date: October 1, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 47

Direction:

Subject: ERRS decontaminating the inside of UST007-1024 using a pressure washer

Date: October 1, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Date: October 15, 2007

Photo Number: 48

Photographer: Twunjala Bradley

Direction: South

Subject: ERRS decontaminating the Spray Pond with a pressure washer



Site: Ingersoll Removal Site

Date: October 31, 2007

Photo Number: 49

Photographer: Twunjala Bradley

Direction: North

Subject: The Spray Pond after decontamination



Site: Ingersoll Removal Site

Photo Number: 50

Direction: North

Subject: Waste soil stockpiled in Building 912

Date: November 2, 2007

Photographer: Twunjala Bradley



Site: Ingersoll Removal Site

Photo Number: 51

Direction: Northwest

Subject: ERRS loading the final waste soil load onto a haul truck for transport and final disposal

Date: November 2, 2007

Photographer: Twunjala Bradley

ATTACHMENT B
ANALYTICAL RESULTS

ATTACHMENT B1
METAL SAMPLING RESULTS FOR WASTEWATER

Table B1
Metal Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	INF-Metals-051107-001	EFF-Metals-051107-001	EFF-Metals-052107-002
		Sample Description	wastewater	wastewater	wastewater
		Sample Type	Grab	Grab	Grab
		Sampling Date	05/11/07	05/11/07	05/21/07
		Regulatory Level			
Metals					
Arsenic	mg/L	NL	NA	NA	0.012
Barium	mg/L	NL	NA	NA	0.038
Cadmium	mg/L	0.11	ND	ND	ND
Chromium	mg/L	2.77	ND	ND	ND
Copper	mg/L	2.07	0.031	0.03	NA
Iron	mg/L	250	0.36	0.17	NA
Lead	mg/L	0.5	ND	ND	ND
Nickel	mg/L	3.98	ND	0.019	NA
Selenium	mg/L	NL	NA	NA	ND
Silver	mg/L	NL	NA	NA	ND
Zinc	mg/L	2.61	ND	ND	NA
Mercury	mg/L	0.0005	ND	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

NL - not listed

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

Table B1
Metal Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-Metals-060107-003	EFF-Metals-060807-004	EFF-Metals-072707-04(005)
		Sample Description	wastewater	wastewater	wastewater
		Sample Type	Grab	Grab	Grab
		Sampling Date	06/01/07	06/08/07	07/27/07
		Regulatory Level			
Metals					
Arsenic	mg/L	NL	NA	NA	NA
Barium	mg/L	NL	NA	NA	NA
Cadmium	mg/L	0.11	ND	ND	ND
Chromium	mg/L	2.77	ND	ND	ND
Copper	mg/L	2.07	0.01	0.011	ND
Iron	mg/L	250	1.3	1.2	1.2
Lead	mg/L	0.5	0.012	0.014	0.0086
Nickel	mg/L	3.98	ND	0.017	ND
Selenium	mg/L	NL	NA	NA	NA
Silver	mg/L	NL	NA	NA	NA
Zinc	mg/L	2.61	0.037	0.028	0.038
Mercury	mg/L	0.0005	ND	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

NL - not listed

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

Table B1
Metal Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-Metals-082207-006	EFF-Metals-082707-007	EFF-Metals-083007-008
		Sample Description	wastewater	wastewater	wastewater
		Sample Type	Grab	Grab	Grab
		Sampling Date	08/22/07	08/27/07	08/27/07
		Regulatory Level			
Metals					
Arsenic	mg/L	NL	NA	NA	NA
Barium	mg/L	NL	NA	NA	NA
Cadmium	mg/L	0.11	ND	0.002	ND
Chromium	mg/L	2.77	ND	0.003	ND
Copper	mg/L	2.07	ND	0.01	0.014
Iron	mg/L	250	0.62	0.05	0.72
Lead	mg/L	0.5	ND	0.0075	ND
Nickel	mg/L	3.98	0.014	0.01	0.012
Selenium	mg/L	NL	NA	NA	NA
Silver	mg/L	NL	NA	NA	NA
Zinc	mg/L	2.61	0.072	0.02	0.077
Mercury	mg/L	0.0005	ND	0.0002	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

NL - not listed

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

ATTACHMENT B2
PCB SAMPLING RESULTS FOR WASTEWATER

Table B2
PCB Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	INF-PCB/PEST-051407-001	EFF-PCB/PEST-051401-001
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sample Date	05/14/07	05/14/07
		Regulatory Level		
PCBs				
Aroclor 1016	mg/L	NL	ND	ND
Aroclor 1221	mg/L	NL	ND	ND
Aroclor 1232	mg/L	NL	ND	ND
Aroclor 1242	mg/L	NL	ND	ND
Aroclor 1248	mg/L	NL	ND	ND
Aroclor 1254	mg/L	NL	ND	ND
Aroclor 1260	mg/L	NL	ND	ND
Aroclor 1262	mg/L	NL	NA	NA
Aroclor 1268	mg/L	NL	NA	NA
Total PCBs	mg/L	50 mg/kg	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum (2.13) mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including PCBs.

EFF - Effluent

PCB - Polychlorinated biphenyl

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

Table B2
PCB Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-PCB/PEST-052107-002	EFF-PCB/PEST-060107-003
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sample Date	05/21/07	06/01/07
		Regulatory Level		
PCBs				
Aroclor 1016	mg/L	NL	ND	ND
Aroclor 1221	mg/L	NL	ND	ND
Aroclor 1232	mg/L	NL	ND	ND
Aroclor 1242	mg/L	NL	ND	ND
Aroclor 1248	mg/L	NL	ND	ND
Aroclor 1254	mg/L	NL	ND	ND
Aroclor 1260	mg/L	NL	ND	ND
Aroclor 1262	mg/L	NL	NA	NA
Aroclor 1268	mg/L	NL	NA	NA
Total PCBs	mg/L	50 mg/kg	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum (2.13) mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including PCBs.

EFF - Effluent

PCB - Polychlorinated biphenyl

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

Table B2
PCB Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-PCB/PEST-060807-004	EFF-PCB/Pesticides-072707-04 (005)
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sample Date	06/08/07	07/27/07
		Regulatory Level		
PCBs				
Aroclor 1016	mg/L	NL	ND	ND
Aroclor 1221	mg/L	NL	ND	ND
Aroclor 1232	mg/L	NL	ND	ND
Aroclor 1242	mg/L	NL	ND	ND
Aroclor 1248	mg/L	NL	ND	ND
Aroclor 1254	mg/L	NL	ND	ND
Aroclor 1260	mg/L	NL	ND	ND
Aroclor 1262	mg/L	NL	NA	NA
Aroclor 1268	mg/L	NL	NA	NA
Total PCBs	mg/L	50 mg/kg	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum (2.13) mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including PCBs.

EFF - Effluent

PCB - Polychlorinated biphenyl

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

Table B2
PCB Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-PCB/Pesticides-082207-006	EFF-PCB/Pesticides-082707-007
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	08/22/07	08/27/07
		Regulatory Level		
PCBs				
Aroclor 1016	mg/L	NL	ND	ND
Aroclor 1221	mg/L	NL	ND	ND
Aroclor 1232	mg/L	NL	ND	ND
Aroclor 1242	mg/L	NL	ND	ND
Aroclor 1248	mg/L	NL	ND	ND
Aroclor 1254	mg/L	NL	ND	ND
Aroclor 1260	mg/L	NL	ND	NA
Aroclor 1262	mg/L	NL	NA	NA
Aroclor 1268	mg/L	NL	NA	ND
Total PCBs	mg/L	50 mg/kg	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum (2.13) mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including PCBs.

EFF - Effluent

PCB - Polychlorinated biphenyl

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

Table B2
PCB Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-PCB/Pesticides-083007-008
		Sample Description	wastewater
		Sample Type	Grab
		Sample Date	08/27/07
		Regulatory Level	
PCBs			
Aroclor 1016	mg/L	NL	ND
Aroclor 1221	mg/L	NL	ND
Aroclor 1232	mg/L	NL	ND
Aroclor 1242	mg/L	NL	ND
Aroclor 1248	mg/L	NL	ND
Aroclor 1254	mg/L	NL	ND
Aroclor 1260	mg/L	NL	NA
Aroclor 1262	mg/L	NL	NA
Aroclor 1268	mg/L	NL	ND
Total PCBs	mg/L	50 mg/kg	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum (2.13) mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including PCBs.

EFF - Effluent

PCB - Polychlorinated biphenyl

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

ATTACHMENT B3
PCB SAMPLING RESULTS FOR SOIL, OIL AND SLUDGE

Table B3
PCB Sampling Results for Soil, Oil and Sludge
Ingersoll Site Time-Critical Removal
May 11, 2007-October 30, 2007

Sample ID	MH01-051107-COC	MH02-051107-AMR	ING-062807-1014-01	ING-062807-1014-02
Sample Description	Sludge	Oily liquid	Soil	Soil
Sample Type	Grab	Grab	Grab	Grab
Sampling Date	05/11/07	05/11/07	06/28/07	06/28/07
Units	mg/kg	mg/L	mg/kg	mg/kg
Analyte				
PCBs				
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	4.8	0.42
Aroclor 1260	ND	ND	ND	ND
Aroclor 1262	ND	ND	ND	ND
Aroclor 1268	ND	ND	ND	ND
Total PCBs	ND	ND	4.8	0.42

Notes:

Result exceeds the Illinois Tiered Approach to Corrective Action Objectives industrial, commercial and industrial worker ingestion criteria of 1 mg/kg.

Result exceeds U.S. EPA Toxic Substances Control Act remediation objective of 10 µg/100cm² for industrial use property.

Regulatory level for PCB concentrations in soil is 50 mg/kg based on U.S. EPA Toxic Substances Control Action

Frac- Frac tank

ING - Ingersoll Removal

mg/kg - milligrams per kilograms

mg/L - milligrams per liter

MH- manhole

NA - not analyzed

ND - not detected at the method detection limit

PCB - polychlorinated biphenyl

µg/100cm² - micrograms per 100 square centimeters

U.S. EPA - United States Environmental Protection Agency

WP- Wipe Sample

Table B3
PCB Sampling Results for Soil, Oil and Sludge
Ingersoll Site Time-Critical Removal
May 11, 2007-October 30, 2007

Sample ID	ING-062807-1014-03	ING-062807-1014-04	ING-062807-1014-05	ING-062807-1014-06
Sample Description	Soil	Soil	Soil	Soil (Duplicate of sample ING-062807-1014-03)
Sample Type	Grab	Grab	Grab	Grab
Sampling Date	06/28/07	06/28/07	06/28/07	06/28/07
Units	mg/kg	mg/kg	mg/kg	mg/kg
Analyte				
PCBs				
Aroclor 1016	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	2.2	6.5	11	2.7
Aroclor 1260	ND	ND	ND	ND
Aroclor 1262	ND	ND	ND	ND
Aroclor 1268	ND	ND	ND	ND
Total PCBs	2.2	6.5	11	2.7

Notes:

Result exceeds the Illinois Tiered Approach to Corrective Action Objectives industrial, commercial and industrial worker ingestion criteria of 1 mg/kg.

Result exceeds U.S. EPA Toxic Substances Control Act remediation objective of 10 µg/100cm² for industrial use property.

Regulatory level for PCB concentrations in soil is 50 mg/kg based on U.S. EPA Toxic Substances Control Action

Frac- Frac tank

ING - Ingersoll Removal

mg/kg - milligrams per kilograms

mg/L - milligrams per liter

MH- manhole

NA - not analyzed

ND - not detected at the method detection limit

PCB - polychlorinated biphenyl

Table B3
PCB Sampling Results for Soil, Oil and Sludge
Ingersoll Site Time-Critical Removal
May 11, 2007-October 30, 2007

Sample ID	WP-071307-1014(Sump)	WP-071307-1014-A	WP-071307-1014-B	Pipe-080707-924	Frac-103007-FIR
Sample Description	Oily residue	Oily residue	Oily residue	Oily solid	Oily Residue
Sample Type	Grab	Grab	Grab	Grab	Grab
Sampling Date	07/13/07	07/13/07	07/13/07	08/07/07	10/30/2007
Units	µg/100cm ²	µg/100cm ²	µg/100cm ²	mg/kg	µg/100cm ²
Analyte					
PCBs					
Aroclor 1016	ND	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND	ND
Aroclor 1254	ND	19	21	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND
Aroclor 1262	ND	ND	ND	ND	ND
Aroclor 1268	ND	ND	ND	ND	ND
Total PCBs	ND	19	21	ND	ND

Notes:

Result exceeds the Illinois Tiered Approach to Corrective Action Objectives industrial, commercial and industrial worker ingestion criteria of 1 mg/kg.

Result exceeds U.S. EPA Toxic Substances Control Act remediation objective of 10 µg/100cm² for industrial use property.

Regulatory level for PCB concentrations in soil is 50 mg/kg based on U.S. EPA Toxic Substances Control Action

Frac- Frac tank

ING - Ingersoll Removal

mg/kg - milligrams per kilograms

mg/L - milligrams per liter

MH- manhole

NA - not analyzed

ND - not detected at the method detection limit

PCB - polychlorinated biphenyl

Table B3
PCB Sampling Results for Soil, Oil and Sludge
Ingersoll Site Time-Critical Removal
May 11, 2007-October 30, 2007

Sample ID	Frac-103007-Wall	TR-102207-912
Sample Description	Oily Residue	Soil
Sample Type	Grab	Composite
Sampling Date	10/30/2007	10/22/2007
Units	µg/100cm ²	mg/kg
Analyte		
PCBs		
Aroclor 1016	ND	ND
Aroclor 1221	ND	ND
Aroclor 1232	ND	ND
Aroclor 1242	ND	ND
Aroclor 1248	ND	ND
Aroclor 1254	ND	ND
Aroclor 1260	ND	0.33
Aroclor 1262	ND	ND
Aroclor 1268	ND	ND
Total PCBs	ND	0.33

Notes:

Result exceeds the Illinois Tiered Approach to Corrective Action Objectives industrial, commercial and industrial worker ingestion criteria of 1 mg/kg.

Result exceeds U.S. EPA Toxic Substances Control Act remediation objective of 10 µg/100cm² for industrial use property.

Regulatory level for PCB concentrations in soil is 50 mg/kg based on U.S. EPA Toxic Substances Control Action
Frac- Frac tank

ING - Ingersoll Removal

mg/kg - milligrams per kilograms

mg/L - milligrams per liter

MH- manhole

NA - not analyzed

ND - not detected at the method detection limit

PCB - polychlorinated biphenyl

ATTACHMENT B4
TOTAL CYANIDE SAMPLING RESULTS FOR WASTEWATER

Table B4
Total Cyanide Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	INF-Total Cyanide-051107-001	EFF-Total Cyanide-051107-001	EFF-Total Cyanide-052107-002	EFF-Total Cyanide-060107-003
		Sample Description	wastewater	wastewater	wastewater	wastewater
		Sample Type	Grab	Grab	Grab	Grab
		Sampling Date	05/11/07	05/11/07	05/21/07	06/01/07
		Regulatory Level				
Total Cyanide						
Cyanide, Total	mg/L	1.2	ND	ND	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

ND - not detected at the method detection limit

Table B4
Total Cyanide Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-Total Cyanide-060807-004	EFF-Total Cyanide-072707-04(005)	EFF-Total Cyanide-082207-006	EFF-Total Cyanide-082707-007
		Sample Description	wastewater	wastewater	wastewater	wastewater
		Sample Type	Grab	Grab	Grab	Grab
		Sampling Date	06/08/07	07/27/07	08/22/07	08/27/07
		Regulatory Level	mg/L	mg/L	mg/L	
Total Cyanide						
Cyanide, Total	mg/L	1.2	ND	ND	0.021	0.005

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

ND - not detected at the method detection limit

Table B4
Total Cyanide Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-Total Cyanide-083007-008
		Sample Description	wastewater
		Sample Type	Grab
		Sampling Date	08/30/07
		Regulatory Level	
Total Cyanide			
Cyanide, Total	mg/L	1.2	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

ND - not detected at the method detection limit

ATTACHMENT B5
OIL AND GREASE SAMPLING RESULTS FOR WASTEWATER

Table B5
Oil and Grease Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007 - August 30, 2007

Analyte	Units	Sample ID	INF-oil/grease-051107-001	EFF-oil/grease-051101-001
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	05/11/07	05/11/07
		Regulatory Level		
Oil and Grease (Solid Phase Extraction)				
Oil and Grease (HEM)	mg/L	250	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

HEM - Hexane Extractable Material

INF - Influent

mg/L - milligrams per liter

ND - not detected at the method detection limit

Table B5
Oil and Grease Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007 - August 30, 2007

Analyte	Units	Sample ID	EFF-oil/grease-052107-002	EFF-oil/grease-060107-003
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	05/21/07	06/01/07
		Regulatory Level		
Oil and Grease (Solid Phase Extraction)				
Oil and Grease (HEM)	mg/L	250	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

HEM - Hexane Extractable Material

INF - Influent

mg/L - milligrams per liter

ND - not detected at the method detection limit

Table B5
Oil and Grease Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007 - August 30, 2007

Analyte	Units	Sample ID	EFF-oil/grease-060807-004	EFF-oil/grease-072707-04(005)
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	06/08/07	07/27/07
		Regulatory Level		
Oil and Grease (Solid Phase Extraction)				
Oil and Grease (HEM)	mg/L	250	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

HEM - Hexane Extractable Material

INF - Influent

mg/L - milligrams per liter

ND - not detected at the method detection limit

Table B5
Oil and Grease Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007 - August 30, 2007

Analyte	Units	Sample ID	EFF-Oil/Grease-082207-006	EFF-Oil/Grease-082707-007
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	08/22/07	08/27/07
		Regulatory Level		
Oil and Grease (Solid Phase Extraction)				
Oil and Grease (HEM)	mg/L	250	ND	5

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

HEM - Hexane Extractable Material

INF - Influent

mg/L - milligrams per liter

ND - not detected at the method detection limit

Table B5
Oil and Grease Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007 - August 30, 2007

		Sample ID	EFF-Oil/Grease-083007-008
		Sample Description	wastewater
		Sample Type	Grab
		Sampling Date	08/30/07
		Regulatory Level	
Analyte	Units	Oil and Grease (Solid Phase Extraction)	
Oil and Grease (HEM)	mg/L	250	8.6

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

HEM - Hexane Extractable Material

INF - Influent

mg/L - milligrams per liter

ND - not detected at the method detection limit

ATTACHMENT B6
VOC SAMPLING RESULTS FOR WASTEWATER

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	INF-VOCs-051107-001	EFF-VOCs-051101-001
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	05/11/07	05/11/07
		Regulatory Level		
Volatile Organic Compounds				
1,1,1-Trichloroethane	mg/L	0.193	ND	ND
1,1,2,2-Tetrachloroethane	mg/L	NL	ND	ND
1,1,2-Trichloroethane	mg/L	NL	ND	ND
1,1-Dichloroethane	mg/L	NL	ND	ND
1,1-Dichloroethene	mg/L	NL	ND	ND
1,2-Dichlorobenzene	mg/L	NL	ND	ND
1,2-Dichloroethane	mg/L	NL	ND	ND
1,2-Dichloropropane	mg/L	NL	ND	ND
1,3-Dichlorobenzene	mg/L	NL	ND	ND
1,4-Dichlorobenzene	mg/L	NL	ND	ND
2-Chloroethyl vinyl ether	mg/L	NL	ND	ND
2-Butanone	mg/L	NL	NA	NA
2-Hexanone	mg/L	NL	NA	NA
4-Methyl-2-Pentanone	mg/L	NL	NA	NA
Acetone	mg/L	NL	NA	NA
Acrolein	mg/L	NL	NA	NA
Acrylonitrile	mg/L	NL	NA	NA
Benzene	mg/L	0.278	ND	ND
Bromodichloromethane	mg/L	NL	ND	ND
Bromoform	mg/L	NL	ND	ND
Bromomethane	mg/L	NL	ND	ND
Carbon Disulfide	mg/L	NL	NA	NA
Carbon tetrachloride	mg/L	NL	ND	ND
Chlorobenzene	mg/L	NL	ND	ND
Chloroethane	mg/L	NL	ND	ND
Chloroform	mg/L	0.309	ND	ND
Chloromethane	mg/L	NL	ND	ND
cis-1,2-Dichloroethene	mg/L	NL	NA	NA
cis-1,3-Dichloropropene	mg/L	NL	ND	ND
Dibromochloromethane	mg/L	NL	ND	ND
Ethylbenzene	mg/L	0.329	ND	ND
Methyl-t-Butyl Ether	mg/L	NL	NA	NA
Methylene chloride	mg/L	NL	ND	ND
Styrene	mg/L	NL	NA	NA
Tetrachloroethene	mg/L	0.225	ND	ND
Toluene	mg/L	0.247	ND	ND
trans-1,2-Dichloroethene	mg/L	NL	ND	ND
trans-1,3-Dichloropropene	mg/L	NL	ND	ND
Trichloroethene	mg/L	NL	ND	ND
Trichlorofluoromethane	mg/L	NL	ND	ND
Vinyl Acetate	mg/L	NL	NA	NA

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	INF-VOCs-051107-001	EFF-VOCs-051101-001
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	05/11/07	05/11/07
		Regulatory Level		
Volatile Organic Compounds				
Vinyl chloride	mg/L	NL	ND	ND
m,p-Xylene	mg/L	NL	NA	NA
o-Xylene	mg/L	NL	NA	NA
Total Xylenes	mg/L	NL	NA	NA

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago listed in the

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

VOC - volatile organic compound

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-VOCs-052107-002	EFF-VOCs-060107-003
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	05/21/07	06/01/07
		Regulatory Level		
Volatile Organic Compounds				
1,1,1-Trichloroethane	mg/L	0.193	ND	ND
1,1,2,2-Tetrachloroethane	mg/L	NL	ND	ND
1,1,2-Trichloroethane	mg/L	NL	ND	ND
1,1-Dichloroethane	mg/L	NL	ND	ND
1,1-Dichloroethene	mg/L	NL	ND	ND
1,2-Dichlorobenzene	mg/L	NL	NA	ND
1,2-Dichloroethane	mg/L	NL	ND	ND
1,2-Dichloropropane	mg/L	NL	ND	ND
1,3-Dichlorobenzene	mg/L	NL	ND	ND
1,4-Dichlorobenzene	mg/L	NL	ND	ND
2-Chloroethyl vinyl ether	mg/L	NL	ND	ND
2-Butanone	mg/L	NL	ND	NA
2-Hexanone	mg/L	NL	ND	NA
4-Methyl-2-Pentanone	mg/L	NL	ND	NA
Acetone	mg/L	NL	ND	NA
Acrolein	mg/L	NL	ND	NA
Acrylonitrile	mg/L	NL	ND	NA
Benzene	mg/L	0.278	ND	ND
Bromodichloromethane	mg/L	NL	ND	ND
Bromoform	mg/L	NL	ND	ND
Bromomethane	mg/L	NL	ND	ND
Carbon Disulfide	mg/L	NL	ND	NA
Carbon tetrachloride	mg/L	NL	ND	ND
Chlorobenzene	mg/L	NL	ND	ND
Chloroethane	mg/L	NL	ND	ND
Chloroform	mg/L	0.309	ND	ND
Chloromethane	mg/L	NL	ND	ND
cis-1,2-Dichloroethene	mg/L	NL	ND	NA
cis-1,3-Dichloropropene	mg/L	NL	ND	ND
Dibromochloromethane	mg/L	NL	ND	ND
Ethylbenzene	mg/L	0.329	ND	ND
Methyl-t-Butyl Ether	mg/L	NL	ND	NA
Methylene chloride	mg/L	NL	ND	ND
Styrene	mg/L	NL	ND	NA
Tetrachloroethene	mg/L	0.225	ND	ND
Toluene	mg/L	0.247	ND	ND
trans-1,2-Dichloroethene	mg/L	NL	ND	ND
trans-1,3-Dichloropropene	mg/L	NL	ND	ND
Trichloroethene	mg/L	NL	ND	ND
Trichlorofluoromethane	mg/L	NL	ND	ND
Vinyl Acetate	mg/L	NL	ND	NA

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-VOCs-052107-002	EFF-VOCs-060107-003
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	05/21/07	06/01/07
		Regulatory Level		
Volatile Organic Compounds				
Vinyl chloride	mg/L	NL	ND	ND
m,p-Xylene	mg/L	NL	ND	NA
o-Xylene	mg/L	NL	ND	NA
Total Xylenes	mg/L	NL	ND	NA

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

VOC - volatile organic compound

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-VOCs-060807-004	EFF-VOCs-072707-04(005)
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	06/08/07	07/27/07
		Regulatory Level		
Volatile Organic Compounds				
1,1,1-Trichloroethane	mg/L	0.193	ND	ND
1,1,2,2-Tetrachloroethane	mg/L	NL	ND	ND
1,1,2-Trichloroethane	mg/L	NL	ND	ND
1,1-Dichloroethane	mg/L	NL	ND	ND
1,1-Dichloroethene	mg/L	NL	ND	ND
1,2-Dichlorobenzene	mg/L	NL	ND	ND
1,2-Dichloroethane	mg/L	NL	ND	ND
1,2-Dichloropropane	mg/L	NL	ND	ND
1,3-Dichlorobenzene	mg/L	NL	ND	ND
1,4-Dichlorobenzene	mg/L	NL	ND	ND
2-Chloroethyl vinyl ether	mg/L	NL	ND	ND
2-Butanone	mg/L	NL	NA	NA
2-Hexanone	mg/L	NL	NA	NA
4-Methyl-2-Pentanone	mg/L	NL	NA	NA
Acetone	mg/L	NL	NA	NA
Acrolein	mg/L	NL	NA	NA
Acrylonitrile	mg/L	NL	NA	NA
Benzene	mg/L	0.278	ND	ND
Bromodichloromethane	mg/L	NL	ND	ND
Bromoform	mg/L	NL	ND	ND
Bromomethane	mg/L	NL	ND	ND
Carbon Disulfide	mg/L	NL	NA	NA
Carbon tetrachloride	mg/L	NL	ND	ND
Chlorobenzene	mg/L	NL	ND	ND
Chloroethane	mg/L	NL	ND	ND
Chloroform	mg/L	0.309	ND	ND
Chloromethane	mg/L	NL	ND	ND
cis-1,2-Dichloroethene	mg/L	NL	NA	NA
cis-1,3-Dichloropropene	mg/L	NL	ND	ND
Dibromochloromethane	mg/L	NL	ND	ND
Ethylbenzene	mg/L	0.329	ND	ND
Methyl-t-Butyl Ether	mg/L	NL	NA	NA
Methylene chloride	mg/L	NL	ND	ND
Styrene	mg/L	NL	NA	NA
Tetrachloroethene	mg/L	0.225	ND	ND
Toluene	mg/L	0.247	ND	ND
trans-1,2-Dichloroethene	mg/L	NL	ND	ND
trans-1,3-Dichloropropene	mg/L	NL	ND	ND
Trichloroethene	mg/L	NL	ND	ND
Trichlorofluoromethane	mg/L	NL	ND	ND
Vinyl Acetate	mg/L	NL	NA	NA

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-VOCs-060807-004	EFF-VOCs-072707-04(005)
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	06/08/07	07/27/07
		Regulatory Level		
Volatile Organic Compounds				
Vinyl chloride	mg/L	NL	ND	ND
m,p-Xylene	mg/L	NL	NA	NA
o-Xylene	mg/L	NL	NA	NA
Total Xylenes	mg/L	NL	NA	NA

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

VOC - volatile organic compound

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-VOCS-082207-006	EFF-VOCS-082707-007
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	08/22/07	08/27/07
		Regulatory Level		
Volatile Organic Compounds				
1,1,1-Trichloroethane	mg/L	0.193	ND	ND
1,1,2,2-Tetrachloroethane	mg/L	NL	ND	ND
1,1,2-Trichloroethane	mg/L	NL	ND	ND
1,1-Dichloroethane	mg/L	NL	ND	ND
1,1-Dichloroethene	mg/L	NL	ND	ND
1,2-Dichlorobenzene	mg/L	NL	ND	ND
1,2-Dichloroethane	mg/L	NL	ND	ND
1,2-Dichloropropane	mg/L	NL	ND	ND
1,3-Dichlorobenzene	mg/L	NL	ND	ND
1,4-Dichlorobenzene	mg/L	NL	ND	ND
2-Chloroethyl vinyl ether	mg/L	NL	ND	ND
2-Butanone	mg/L	NL	NA	NA
2-Hexanone	mg/L	NL	NA	NA
4-Methyl-2-Pentanone	mg/L	NL	NA	NA
Acetone	mg/L	NL	NA	NA
Acrolein	mg/L	NL	NA	NA
Acrylonitrile	mg/L	NL	NA	NA
Benzene	mg/L	0.278	ND	ND
Bromodichloromethane	mg/L	NL	ND	ND
Bromoform	mg/L	NL	ND	ND
Bromomethane	mg/L	NL	ND	ND
Carbon Disulfide	mg/L	NL	NA	NA
Carbon tetrachloride	mg/L	NL	ND	ND
Chlorobenzene	mg/L	NL	ND	ND
Chloroethane	mg/L	NL	ND	ND
Chloroform	mg/L	0.309	ND	ND
Chloromethane	mg/L	NL	ND	ND
cis-1,2-Dichloroethene	mg/L	NL	NA	NA
cis-1,3-Dichloropropene	mg/L	NL	ND	ND
Dibromochloromethane	mg/L	NL	ND	ND
Ethylbenzene	mg/L	0.329	ND	ND
Methyl-t-Butyl Ether	mg/L	NL	NA	NA
Methylene chloride	mg/L	NL	ND	ND
Styrene	mg/L	NL	NA	NA
Tetrachloroethene	mg/L	0.225	ND	ND
Toluene	mg/L	0.247	ND	ND
trans-1,2-Dichloroethene	mg/L	NL	ND	ND
trans-1,3-Dichloropropene	mg/L	NL	ND	ND
Trichloroethene	mg/L	NL	ND	ND
Trichlorofluoromethane	mg/L	NL	ND	ND
Vinyl Acetate	mg/L	NL	NA	NA

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-VOCS-082207-006	EFF-VOCS-082707-007
		Sample Description	wastewater	wastewater
		Sample Type	Grab	Grab
		Sampling Date	08/22/07	08/27/07
		Regulatory Level		
Volatile Organic Compounds				
Vinyl chloride	mg/L	NL	ND	ND
m,p-Xylene	mg/L	NL	NA	NA
o-Xylene	mg/L	NL	NA	NA
Total Xylenes	mg/L	NL	NA	NA

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

VOC - volatile organic compound

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-VOCS-083007-008
		Sample Description	wastewater
		Sample Type	Grab
		Sampling Date	08/30/07
		Regulatory Level	
Volatile Organic Compounds			
1,1,1-Trichloroethane	mg/L	0.193	ND
1,1,2,2-Tetrachloroethane	mg/L	NL	ND
1,1,2-Trichloroethane	mg/L	NL	ND
1,1-Dichloroethane	mg/L	NL	ND
1,1-Dichloroethene	mg/L	NL	ND
1,2-Dichlorobenzene	mg/L	NL	ND
1,2-Dichloroethane	mg/L	NL	ND
1,2-Dichloropropane	mg/L	NL	ND
1,3-Dichlorobenzene	mg/L	NL	ND
1,4-Dichlorobenzene	mg/L	NL	ND
2-Chloroethyl vinyl ether	mg/L	NL	ND
2-Butanone	mg/L	NL	NA
2-Hexanone	mg/L	NL	NA
4-Methyl-2-Pentanone	mg/L	NL	NA
Acetone	mg/L	NL	NA
Acrolein	mg/L	NL	NA
Acrylonitrile	mg/L	NL	NA
Benzene	mg/L	0.278	ND
Bromodichloromethane	mg/L	NL	ND
Bromoform	mg/L	NL	ND
Bromomethane	mg/L	NL	ND
Carbon Disulfide	mg/L	NL	NA
Carbon tetrachloride	mg/L	NL	ND
Chlorobenzene	mg/L	NL	ND
Chloroethane	mg/L	NL	ND
Chloroform	mg/L	0.309	ND
Chloromethane	mg/L	NL	ND
cis-1,2-Dichloroethene	mg/L	NL	NA
cis-1,3-Dichloropropene	mg/L	NL	ND
Dibromochloromethane	mg/L	NL	ND
Ethylbenzene	mg/L	0.329	ND
Methyl-t-Butyl Ether	mg/L	NL	NA
Methylene chloride	mg/L	NL	ND
Styrene	mg/L	NL	NA
Tetrachloroethene	mg/L	0.225	ND
Toluene	mg/L	0.247	ND
trans-1,2-Dichloroethene	mg/L	NL	ND
trans-1,3-Dichloropropene	mg/L	NL	ND
Trichloroethene	mg/L	NL	ND
Trichlorofluoromethane	mg/L	NL	ND
Vinyl Acetate	mg/L	NL	NA

Table B6
VOCs Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Units	Sample ID	EFF-VOCS-083007-008
		Sample Description	wastewater
		Sample Type	Grab
		Sampling Date	08/30/07
		Regulatory Level	
Volatile Organic Compounds			
Vinyl chloride	mg/L	NL	ND
m,p-Xylene	mg/L	NL	NA
o-Xylene	mg/L	NL	NA
Total Xylenes	mg/L	NL	NA

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

NL - not listed

VOC - volatile organic compound

ATTACHMENT B7
SVOC SAMPLING RESULTS FOR WASTEWATER

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	INF-SVOCs-051107-001	EFF-SVOCs-051101-001
	Sample Description	wastewater	wastewater
	Sample Type	Grab	Grab
	Sampling Date	05/11/07	05/11/07
	Units		
Semi-volatile organic compounds			
1,2,4-Trichlorobenzene	mg/L	ND	ND
1,2-Dichlorobenzene	mg/L	ND	ND
1,3-Dichlorobenzene	mg/L	ND	ND
1,4-Dichlorobenzene	mg/L	ND	ND
2,4,5-Trichlorophenol	mg/L	ND	NA
2,4,6-Trichlorophenol	mg/L	ND	ND
2,4-Dichlorophenol	mg/L	ND	ND
2,4-Dimethylphenol	mg/L	ND	ND
2,4-Dinitrophenol	mg/L	ND	ND
2,4-Dinitrotoluene	mg/L	ND	ND
2,6-Dinitrotoluene	mg/L	ND	ND
2-Chloronaphthalene	mg/L	ND	ND
2-Chlorophenol	mg/L	ND	ND
2-Nitrophenol	mg/L	ND	ND
3,3'-Dichlorobenzidine	mg/L	ND	ND
4,6-Dinitro-2-methylphenol	mg/L	ND	ND
4-Bromophenyl phenyl ether	mg/L	ND	ND
4-Chloro-3-methylphenol	mg/L	ND	ND
4-Chlorophenyl phenyl ether	mg/L	ND	ND
4-Nitrophenol	mg/L	ND	ND
Acenaphthene	mg/L	ND	ND
Acenaphthylene	mg/L	ND	ND
Anthracene	mg/L	ND	ND
Benzo[a]anthracene	mg/L	ND	ND
Benzo[a]pyrene	mg/L	ND	ND
Benzo[b]fluoranthene	mg/L	ND	ND
Benzo[g,h,i]perylene	mg/L	ND	ND
Benzo[k]fluoranthene	mg/L	ND	ND
Bis(2-chloroethoxy)methane	mg/L	ND	ND
Bis(2-chloroethyl)ether	mg/L	ND	ND
Bis(2-chloroisopropyl)ether	mg/L	ND	ND
Bis(2-ethylhexyl)phthalate	mg/L	0.019	ND
Butyl benzyl phthalate	mg/L	ND	ND
Chrysene	mg/L	ND	ND
Di-n-butyl phthalate	mg/L	ND	ND
Di-n-octyl phthalate	mg/L	ND	ND
Dibenz[a,h]anthracene	mg/L	ND	ND
Diethyl phthalate	mg/L	ND	ND
Dimethyl phthalate	mg/L	ND	ND
Fluoranthene	mg/L	ND	ND
Fluorene	mg/L	ND	ND
Hexachlorobenzene	mg/L	ND	ND
Hexachlorobutadiene	mg/L	ND	ND

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	INF-SVOCs-051107-001	EFF-SVOCs-051101-001
	Sample Description	wastewater	wastewater
	Sample Type	Grab	Grab
	Sampling Date	05/11/07	05/11/07
	Units		
Semi-volatile organic compounds			
Hexachloroethane	mg/L	ND	ND
Indeno[1,2,3cd]pyrene	mg/L	ND	ND
Isophorone	mg/L	ND	ND
N-Nitrosodi-n-propylamine	mg/L	ND	ND
Naphthalene	mg/L	ND	ND
Nitrobenzene	mg/L	ND	ND
Pentachlorophenol	mg/L	ND	ND
Phenanthrene	mg/L	ND	ND
Phenol	mg/L	ND	ND
Pyrene	mg/L	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum of the 2.13 mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including SVOCs.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	EFF-SVOCs-052107-002	EFF-SVOCs-060107-003
	Sample Description	wastewater	wastewater
	Sample Type	Grab	Grab
	Sampling Date	05/21/07	06/01/07
	Units		
Semi-volatile organic compounds			
1,2,4-Trichlorobenzene	mg/L	ND	ND
1,2-Dichlorobenzene	mg/L	ND	ND
1,3-Dichlorobenzene	mg/L	ND	ND
1,4-Dichlorobenzene	mg/L	ND	ND
2,4,5-Trichlorophenol	mg/L	ND	NA
2,4,6-Trichlorophenol	mg/L	ND	ND
2,4-Dichlorophenol	mg/L	ND	ND
2,4-Dimethylphenol	mg/L	ND	ND
2,4-Dinitrophenol	mg/L	ND	ND
2,4-Dinitrotoluene	mg/L	ND	ND
2,6-Dinitrotoluene	mg/L	ND	ND
2-Chloronaphthalene	mg/L	ND	ND
2-Chlorophenol	mg/L	ND	ND
2-Nitrophenol	mg/L	ND	ND
3,3'-Dichlorobenzidine	mg/L	ND	ND
4,6-Dinitro-2-methylphenol	mg/L	ND	ND
4-Bromophenyl phenyl ether	mg/L	ND	ND
4-Chloro-3-methylphenol	mg/L	ND	ND
4-Chlorophenyl phenyl ether	mg/L	ND	ND
4-Nitrophenol	mg/L	ND	ND
Acenaphthene	mg/L	ND	ND
Acenaphthylene	mg/L	ND	ND
Anthracene	mg/L	ND	ND
Benzo[a]anthracene	mg/L	ND	ND
Benzo[a]pyrene	mg/L	ND	ND
Benzo[b]fluoranthene	mg/L	ND	ND
Benzo[g,h,i]perylene	mg/L	ND	ND
Benzo[k]fluoranthene	mg/L	ND	ND
Bis(2-chloroethoxy)methane	mg/L	ND	ND
Bis(2-chloroethyl)ether	mg/L	ND	ND
Bis(2-chloroisopropyl)ether	mg/L	ND	ND
Bis(2-ethylhexyl)phthalate	mg/L	ND	ND
Butyl benzyl phthalate	mg/L	ND	ND
Chrysene	mg/L	ND	ND
Di-n-butyl phthalate	mg/L	ND	ND
Di-n-octyl phthalate	mg/L	ND	ND
Dibenz[a,h]anthracene	mg/L	ND	ND
Diethyl phthalate	mg/L	ND	ND
Dimethyl phthalate	mg/L	ND	ND
Fluoranthene	mg/L	ND	ND
Fluorene	mg/L	ND	ND
Hexachlorobenzene	mg/L	ND	ND
Hexachlorobutadiene	mg/L	ND	ND

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	EFF-SVOCs-052107-002	EFF-SVOCs-060107-003
	Sample Description	wastewater	wastewater
	Sample Type	Grab	Grab
	Sampling Date	05/21/07	06/01/07
	Units		
Semi-volatile organic compounds			
Hexachloroethane	mg/L	ND	ND
Indeno[1,2,3cd]pyrene	mg/L	ND	ND
Isophorone	mg/L	ND	ND
N-Nitrosodi-n-propylamine	mg/L	ND	ND
Naphthalene	mg/L	ND	ND
Nitrobenzene	mg/L	ND	ND
Pentachlorophenol	mg/L	ND	ND
Phenanthrene	mg/L	ND	ND
Phenol	mg/L	ND	ND
Pyrene	mg/L	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum of the 2.13 mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including SVOCs.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	EFF-SVOCs-060807-004	EFF-SVOCs-072707-04(005)
	Sample Description	wastewater	wastewater
	Sample Type	Grab	Grab
	Sampling Date	06/08/07	07/27/07
	Units		
Semi-volatile organic compounds			
1,2,4-Trichlorobenzene	mg/L	ND	ND
1,2-Dichlorobenzene	mg/L	ND	ND
1,3-Dichlorobenzene	mg/L	ND	ND
1,4-Dichlorobenzene	mg/L	ND	ND
2,4,5-Trichlorophenol	mg/L	NA	NA
2,4,6-Trichlorophenol	mg/L	ND	ND
2,4-Dichlorophenol	mg/L	ND	ND
2,4-Dimethylphenol	mg/L	ND	ND
2,4-Dinitrophenol	mg/L	ND	ND
2,4-Dinitrotoluene	mg/L	ND	ND
2,6-Dinitrotoluene	mg/L	ND	ND
2-Chloronaphthalene	mg/L	ND	ND
2-Chlorophenol	mg/L	ND	ND
2-Nitrophenol	mg/L	ND	ND
3,3'-Dichlorobenzidine	mg/L	ND	ND
4,6-Dinitro-2-methylphenol	mg/L	ND	ND
4-Bromophenyl phenyl ether	mg/L	ND	ND
4-Chloro-3-methylphenol	mg/L	ND	ND
4-Chlorophenyl phenyl ether	mg/L	ND	ND
4-Nitrophenol	mg/L	ND	ND
Acenaphthene	mg/L	ND	ND
Acenaphthylene	mg/L	ND	ND
Anthracene	mg/L	ND	ND
Benzo[a]anthracene	mg/L	ND	ND
Benzo[a]pyrene	mg/L	ND	ND
Benzo[b]fluoranthene	mg/L	ND	ND
Benzo[g,h,i]perylene	mg/L	ND	ND
Benzo[k]fluoranthene	mg/L	ND	ND
Bis(2-chloroethoxy)methane	mg/L	ND	ND
Bis(2-chloroethyl)ether	mg/L	ND	ND
Bis(2-chloroisopropyl)ether	mg/L	ND	ND
Bis(2-ethylhexyl)phthalate	mg/L	ND	ND
Butyl benzyl phthalate	mg/L	ND	ND
Chrysene	mg/L	ND	ND
Di-n-butyl phthalate	mg/L	ND	ND
Di-n-octyl phthalate	mg/L	ND	ND
Dibenz[a,h]anthracene	mg/L	ND	ND
Diethyl phthalate	mg/L	ND	ND
Dimethyl phthalate	mg/L	ND	ND
Fluoranthene	mg/L	ND	ND
Fluorene	mg/L	ND	ND
Hexachlorobenzene	mg/L	ND	ND
Hexachlorobutadiene	mg/L	ND	ND

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	EFF-SVOCs-060807-004	EFF-SVOCs-072707-04(005)
	Sample Description	wastewater	wastewater
	Sample Type	Grab	Grab
	Sampling Date	06/08/07	07/27/07
	Units		
Semi-volatile organic compounds			
Hexachloroethane	mg/L	ND	ND
Indeno[1,2,3cd]pyrene	mg/L	ND	ND
Isophorone	mg/L	ND	ND
N-Nitrosodi-n-propylamine	mg/L	ND	ND
Naphthalene	mg/L	ND	ND
Nitrobenzene	mg/L	ND	ND
Pentachlorophenol	mg/L	ND	ND
Phenanthrene	mg/L	ND	ND
Phenol	mg/L	ND	ND
Pyrene	mg/L	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum of the 2.13 mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including SVOCs.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	EFF-SVOCs-082207-006	EFF-SVOCs-082707-007
	Sample Description	wastewater	wastewater
	Sample Type	Grab	Grab
	Sampling Date	08/22/07	08/27/07
	Units		
Semi-volatile organic compounds			
1,2,4-Trichlorobenzene	mg/L	ND	ND
1,2-Dichlorobenzene	mg/L	ND	ND
1,3-Dichlorobenzene	mg/L	ND	ND
1,4-Dichlorobenzene	mg/L	ND	ND
2,4,5-Trichlorophenol	mg/L	NA	NA
2,4,6-Trichlorophenol	mg/L	ND	ND
2,4-Dichlorophenol	mg/L	ND	ND
2,4-Dimethylphenol	mg/L	ND	ND
2,4-Dinitrophenol	mg/L	ND	ND
2,4-Dinitrotoluene	mg/L	ND	ND
2,6-Dinitrotoluene	mg/L	ND	ND
2-Chloronaphthalene	mg/L	ND	ND
2-Chlorophenol	mg/L	ND	ND
2-Nitrophenol	mg/L	ND	ND
3,3'-Dichlorobenzidine	mg/L	ND	ND
4,6-Dinitro-2-methylphenol	mg/L	ND	ND
4-Bromophenyl phenyl ether	mg/L	ND	ND
4-Chloro-3-methylphenol	mg/L	ND	ND
4-Chlorophenyl phenyl ether	mg/L	ND	ND
4-Nitrophenol	mg/L	ND	ND
Acenaphthene	mg/L	ND	ND
Acenaphthylene	mg/L	ND	ND
Anthracene	mg/L	ND	ND
Benzo[a]anthracene	mg/L	ND	ND
Benzo[a]pyrene	mg/L	ND	ND
Benzo[b]fluoranthene	mg/L	ND	ND
Benzo[g,h,i]perylene	mg/L	ND	ND
Benzo[k]fluoranthene	mg/L	ND	ND
Bis(2-chloroethoxy)methane	mg/L	ND	ND
Bis(2-chloroethyl)ether	mg/L	ND	ND
Bis(2-chloroisopropyl)ether	mg/L	ND	ND
Bis(2-ethylhexyl)phthalate	mg/L	ND	ND
Butyl benzyl phthalate	mg/L	ND	ND
Chrysene	mg/L	ND	ND
Di-n-butyl phthalate	mg/L	ND	ND
Di-n-octyl phthalate	mg/L	ND	ND
Dibenz[a,h]anthracene	mg/L	ND	ND
Diethyl phthalate	mg/L	ND	ND
Dimethyl phthalate	mg/L	ND	ND
Fluoranthene	mg/L	ND	ND
Fluorene	mg/L	ND	ND
Hexachlorobenzene	mg/L	ND	ND
Hexachlorobutadiene	mg/L	ND	ND

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	EFF-SVOCs-082207-006	EFF-SVOCs-082707-007
	Sample Description	wastewater	wastewater
	Sample Type	Grab	Grab
	Sampling Date	08/22/07	08/27/07
	Units		
Semi-volatile organic compounds			
Hexachloroethane	mg/L	ND	ND
Indeno[1,2,3cd]pyrene	mg/L	ND	ND
Isophorone	mg/L	ND	ND
N-Nitrosodi-n-propylamine	mg/L	ND	ND
Naphthalene	mg/L	ND	ND
Nitrobenzene	mg/L	ND	ND
Pentachlorophenol	mg/L	ND	ND
Phenanthrene	mg/L	ND	ND
Phenol	mg/L	ND	ND
Pyrene	mg/L	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum of the 2.13 mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including SVOCs.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	EFF-SVOCs-083007-008
	Sample Description	wastewater
	Sample Type	Grab
	Sampling Date	08/30/07
	Units	
Semi-volatile organic compounds		
1,2,4-Trichlorobenzene	mg/L	ND
1,2-Dichlorobenzene	mg/L	ND
1,3-Dichlorobenzene	mg/L	ND
1,4-Dichlorobenzene	mg/L	ND
2,4,5-Trichlorophenol	mg/L	NA
2,4,6-Trichlorophenol	mg/L	ND
2,4-Dichlorophenol	mg/L	ND
2,4-Dimethylphenol	mg/L	ND
2,4-Dinitrophenol	mg/L	ND
2,4-Dinitrotoluene	mg/L	ND
2,6-Dinitrotoluene	mg/L	ND
2-Chloronaphthalene	mg/L	ND
2-Chlorophenol	mg/L	ND
2-Nitrophenol	mg/L	ND
3,3'-Dichlorobenzidine	mg/L	ND
4,6-Dinitro-2-methylphenol	mg/L	ND
4-Bromophenyl phenyl ether	mg/L	ND
4-Chloro-3-methylphenol	mg/L	ND
4-Chlorophenyl phenyl ether	mg/L	ND
4-Nitrophenol	mg/L	ND
Acenaphthene	mg/L	ND
Acenaphthylene	mg/L	ND
Anthracene	mg/L	ND
Benzo[a]anthracene	mg/L	ND
Benzo[a]pyrene	mg/L	ND
Benzo[b]fluoranthene	mg/L	ND
Benzo[g,h,i]perylene	mg/L	ND
Benzo[k]fluoranthene	mg/L	ND
Bis(2-chloroethoxy)methane	mg/L	ND
Bis(2-chloroethyl)ether	mg/L	ND
Bis(2-chloroisopropyl)ether	mg/L	ND
Bis(2-ethylhexyl)phthalate	mg/L	ND
Butyl benzyl phthalate	mg/L	ND
Chrysene	mg/L	ND
Di-n-butyl phthalate	mg/L	ND
Di-n-octyl phthalate	mg/L	ND
Dibenz[a,h]anthracene	mg/L	ND
Diethyl phthalate	mg/L	ND
Dimethyl phthalate	mg/L	ND
Fluoranthene	mg/L	ND
Fluorene	mg/L	ND
Hexachlorobenzene	mg/L	ND
Hexachlorobutadiene	mg/L	ND

Table B7
SVOC Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 11, 2007-August 30, 2007

Analyte	Sample ID	EFF-SVOCs-083007-008
	Sample Description	wastewater
	Sample Type	Grab
	Sampling Date	08/30/07
	Units	
Semi-volatile organic compounds		
Hexachloroethane	mg/L	ND
Indeno[1,2,3cd]pyrene	mg/L	ND
Isophorone	mg/L	ND
N-Nitrosodi-n-propylamine	mg/L	ND
Naphthalene	mg/L	ND
Nitrobenzene	mg/L	ND
Pentachlorophenol	mg/L	ND
Phenanthrene	mg/L	ND
Phenol	mg/L	ND
Pyrene	mg/L	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum of the 2.13 mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including SVOCs.

EFF - Effluent

INF - Influent

mg/L - milligrams per liter

NA - not analyzed

ND - not detected at the method detection limit

ATTACHMENT B8
PESTICIDE SAMPLING RESULTS FOR WASTEWATER

Table B8
Pesticide Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 14, 2007-August 20, 2007

Analyte	Sample ID	INF-PCB/PEST-051407-001	EFF-PCB/PEST-051401-001	EFF-PCB/PEST-052107-002
	Sample Description	Wastewater	Wastewater	Wastewater
	Sample Type	Grab	Grab	Grab
	Sampling Date	05/14/07	05/14/07	05/21/07
	Units			
PESTICIDES				
4,4' DDD	mg/L	ND	ND	ND
4,4' -DDE	mg/L	ND	ND	ND
4,4'-DDT	mg/L	ND	ND	ND
Aldrin	mg/L	ND	ND	ND
alpha-BHC	mg/L	ND	ND	ND
beta-BHC	mg/L	ND	ND	ND
Chlordane	mg/L	ND	ND	ND
delta-BHC	mg/L	ND	ND	ND
Dieldrin	mg/L	ND	ND	ND
Endosulfan I	mg/L	ND	ND	ND
Endosulfan II	mg/L	ND	ND	ND
Endosulfan sulfate	mg/L	ND	ND	ND
Endrin	mg/L	ND	ND	ND
Endrin aldehyde	mg/L	ND	ND	ND
Endrin Ketone	mg/L	ND	ND	ND
gamma-BHC	mg/L	ND	ND	ND
Heptachlor	mg/L	ND	ND	ND
Heptachlor epoxide	mg/L	ND	ND	ND
Methoxychlor	mg/L	ND	ND	ND
Toxaphene	mg/L	ND	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum (2.13) mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including Pesticides.

EFF - Effluent

NA - not analyzed

INF - Influent

ND - not detected at the method detection limit

mg/L - milligrams per liter

Table B8
Pesticide Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 14, 2007-August 20, 2007

Analyte	Sample ID	EFF-PCB/PEST-060107-003	EFF-PCB/PEST-060807-003	EFF-PCB/Pesticides-072707-04 (005)
	Sample Description	Wastewater	Wastewater	Wastewater
	Sample Type	Grab	Grab	Grab
	Sampling Date	06/01/07	06/08/07	07/27/07
	Units			
PESTICIDES				
4,4' DDD	mg/L	ND	NA	ND
4,4' -DDE	mg/L	ND	NA	ND
4,4'-DDT	mg/L	ND	NA	ND
Aldrin	mg/L	ND	NA	ND
alpha-BHC	mg/L	ND	NA	ND
beta-BHC	mg/L	ND	NA	ND
Chlordane	mg/L	ND	NA	ND
delta-BHC	mg/L	ND	NA	ND
Dieldrin	mg/L	ND	NA	ND
Endosulfan I	mg/L	ND	NA	ND
Endosulfan II	mg/L	ND	NA	ND
Endosulfan sulfate	mg/L	ND	NA	ND
Endrin	mg/L	ND	NA	ND
Endrin aldehyde	mg/L	ND	NA	ND
Endrin Ketone	mg/L	ND	NA	ND
gamma-BHC	mg/L	ND	NA	ND
Heptachlor	mg/L	ND	ND	ND
Heptachlor epoxide	mg/L	ND	NA	ND
Methoxychlor	mg/L	ND	NA	ND
Toxaphene	mg/L	ND	NA	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum (2.13) mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including Pesticides.

EFF - Effluent

NA - not analyzed

INF - Influent

ND - not detected at the method detection limit

mg/L - milligrams per liter

Table B8
Pesticide Sampling Results for Wastewater
Ingersoll Site Time-Critical Removal
May 14, 2007-August 20, 2007

Analyte	Sample ID	EFF-PCB/Pesticides-082207-006	EFF-PCB/Pesticides-082707-007	EFF-PCB/Pesticides-083007-008
	Sample Description	Wastewater	Wastewater	Wastewater
	Sample Type	Grab	Grab	Grab
	Sampling Date	08/22/07	08/27/07	08/27/07
	Units			
PESTICIDES				
4,4' DDD	mg/L	ND	ND	ND
4,4' -DDE	mg/L	ND	ND	ND
4,4'-DDT	mg/L	ND	ND	ND
Aldrin	mg/L	ND	ND	ND
alpha-BHC	mg/L	ND	ND	ND
beta-BHC	mg/L	ND	ND	ND
Chlordane	mg/L	ND	ND	ND
delta-BHC	mg/L	ND	ND	ND
Dieldrin	mg/L	ND	ND	ND
Endosulfan I	mg/L	ND	ND	ND
Endosulfan II	mg/L	ND	ND	ND
Endosulfan sulfate	mg/L	ND	ND	ND
Endrin	mg/L	ND	ND	ND
Endrin aldehyde	mg/L	ND	ND	ND
Endrin Ketone	mg/L	ND	ND	ND
gamma-BHC	mg/L	ND	ND	ND
Heptachlor	mg/L	ND	ND	ND
Heptachlor epoxide	mg/L	ND	ND	ND
Methoxychlor	mg/L	ND	ND	ND
Toxaphene	mg/L	ND	ND	ND

Notes:

Regulatory levels are based on Metropolitan Water Reclamation District sanitary sewer discharge requirements for the City of Chicago which states that the total toxic organics shall be the arithmetic sum (2.13) mg/L of those pollutants found under Title 40 Part 413.02(i) of the Code of Federal Regulations including Pesticides.

EFF - Effluent

NA - not analyzed

INF - Influent

ND - not detected at the method detection limit

mg/L - milligrams per liter

ATTACHMENT B9
PESTICIDE SAMPLING RESULTS FOR OILS AND SOLIDS

Table B9
Pesticide Sampling Results for Oil and Solids
Ingersoll Site Time-Critical Removal
May 11, 2007-August 7, 2007

Sample ID	MH02-051107-AMR	WP-071307-1014-B	Pipe-080707-924
Sample Description	Oily liquid	Oily residue	Oily solid
Sample Type	Grab	Grab	Grab
Sampling Date	05/11/07	07/13/07	08/07/07
Regulatory level	mg/L	µg/100cm ²	mg/kg
Analyte			
PESTICIDES			
4,4' DDD	ND	ND	ND
4,4' -DDE	ND	ND	ND
4,4'-DDT	ND	ND	ND
Aldrin	ND	ND	ND
alpha-BHC	ND	ND	ND
beta-BHC	ND	ND	ND
Chlordane	ND	ND	ND
delta-BHC	ND	ND	ND
Dieldrin	ND	ND	ND
Endosulfan I	ND	ND	ND
Endosulfan II	ND	ND	ND
Endosulfan sulfate	ND	ND	ND
Endrin	ND	ND	ND
Endrin aldehyde	ND	ND	ND
Endrin Ketone	ND	ND	ND
gamma-BHC	ND	ND	ND
Heptachlor epoxide	ND	ND	ND
Methoxychlor	ND	ND	ND
Toxaphene	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

MH - manhole

ND - not detected at the method detection limit

µg/100cm² - micrograms per 100 square centimeters

WP - wipe

ATTACHMENT B10
LEAD SAMPLING RESULTS FOR SOIL

Table B10
Lead Sampling Results for Soil
Ingersoll Site Time-Critical Removal
June 1, 2007

Analyte	Units	Sample ID	SOIL-GRID912-060107-001	SOIL-PILE-060107-002
		Sample Description	Soil	Soil
		Sample Type	Composite	Composite
		Sampling Date	06/01/07	06/01/07
		Regulatory Level		
Lead				
Lead	mg/kg	400	120	160

Notes:

Regulatory level based on Illinois Tread Approach to Corrective Action Tier 1 Soil Remediation Objectives

mg/kg - milligrams per kilogram