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EPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OUTBOARD MARINE CORPORATION

WAUKEGAN, LAKE COUNTY, ILLINOIS

DISCOVERY SITE VISIT REPORT

TDD No.: S05-0202-004
Contract Number: 68-W-00-129

Prepared for
U.S. Environmental Protection Agency
Region 5 Emergency Response Branch
77 West Jackson Boulevard
Chicago, IL 60604

Prepared by:

Tetra Tech EM Inc.

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Date Prepared:	10 May 02
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1.0 INTRODUCTION

Under Technical Direction Document (TDD) No. S05-0202-004, the U.S. Environmental Protection Agency (U.S. EPA) tasked the Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) to perform field sampling at the Outboard Marine Corporation (OMC) site in Waukegan, Lake County, Illinois. This sampling was performed pursuant to U.S. EPA's discovery request in the contested matter involving the Trustee's Motion for Abandonment of Real Property and Records Relating to Real Property dated 01 Nov 01 of the OMC Chapter 7 Bankruptcy matter (Case No. 00-37405, Banker, N.D. Ill.). START was assigned to compile available site information; develop a site safety plan; develop a field sampling plan; perform a site investigation; collect soil, sediment, groundwater, container, suspected asbestos-containing material (SACM), wipe, and air samples; conduct an inventory of on-site materials; procure an analytical laboratory; provide site photodocumentation; provide a written log documenting all on-site activities; validate analytical data; evaluate potential site-related threats to human health and the environment; and prepare this discovery site visit report.

The site investigation was performed in accordance with the National Contingency Plan (NCP) and Paragraph (b)(2) of Title 40 of the Code of Federal Regulations (CFR), Section 300.415, to evaluate on-site conditions and possible site-related threats to human health, welfare, and the environment. Sections 2.0 through 4.0 of this report, respectively, discuss the site background, field sampling activities, and analytical results. Section 5.0 provides a summary of the discovery site visit. References cited in the text are listed after Section 5.0. Appendix A provides a site photographic log; Appendix B provides an inventory of on-site materials; and Appendix C provides a data validation report and the validated analytical results package.

2.0 SITE BACKGROUND

This section discusses the OMC site location and description as well as its history.

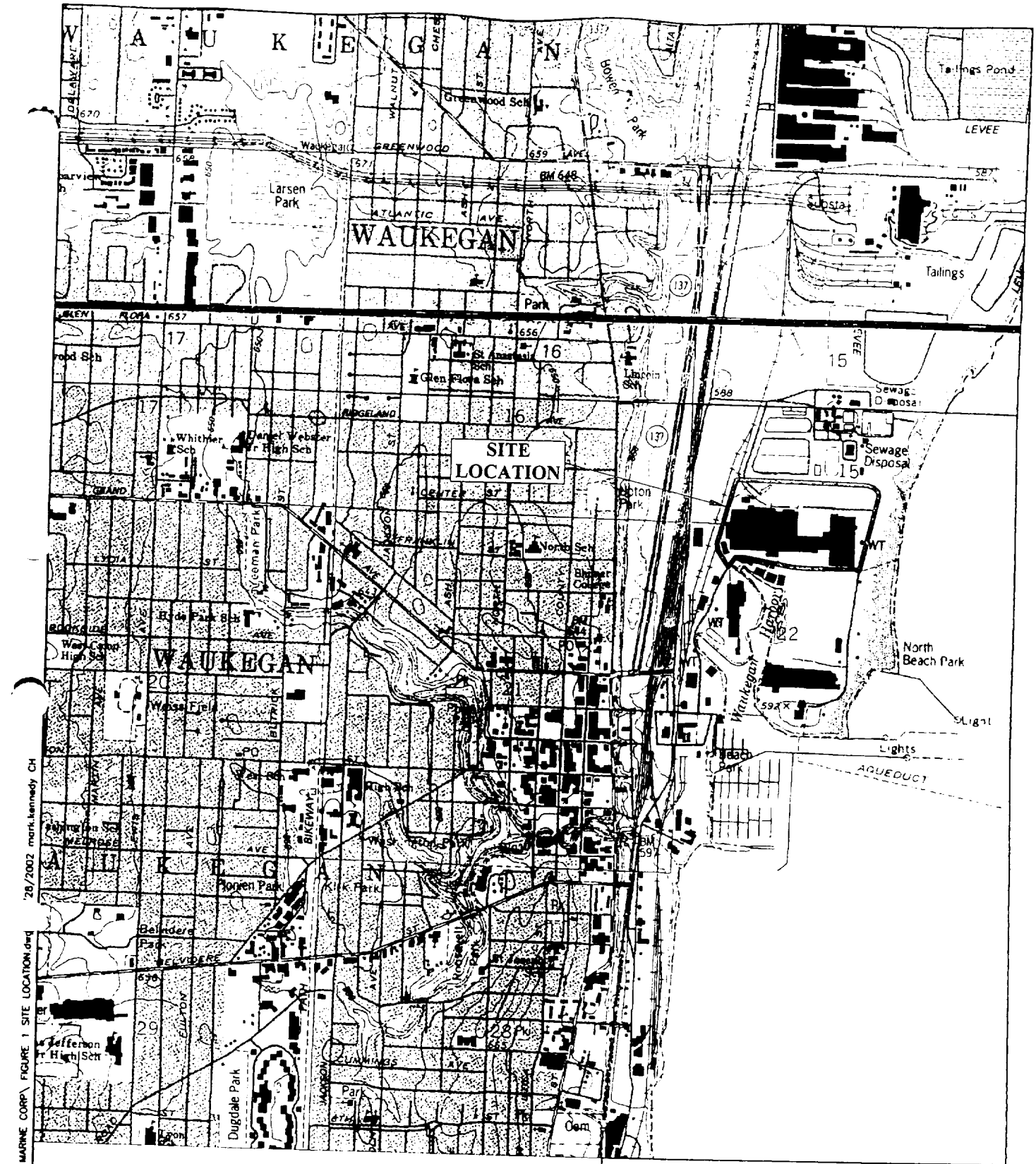
2.1 SITE LOCATION AND DESCRIPTION

The 124-acre OMC property consists of Plant 1, Plant 2, and various other buildings, as well as land surrounding the buildings. Plant 1 is located at 200 Sea Horse Drive in Waukegan, Lake County, Illinois (see Figure 1). For the purposes of this report, the Plant 2 area is referred to as "the OMC site." The OMC site is bordered to the north by a ditch (North Ditch) and the North Shore Sanitary District plant; to the east by public beaches on Lake Michigan; to the south by Sea Horse Drive; and to the west by the Elgin, Joliet, and Eastern Railroad. South of Plant 2 between Sea Horse Drive and Plant 1 is the Waukegan Coke Plant Superfund site (owned by OMC) and the National Gypsum Company (see Figure 2).

In Dec 00, OMC filed under Chapter 11 for bankruptcy and ceased operations at Plant 2. Bombardier Motor Corporation (Bombardier) owns Plant 1 and bought the assets located in Plant 2. Bombardier currently maintains electricity and security at Plant 2 as well as staff to relocate designated machinery and materials in the building. The Plant 2 building, which was the primary focus of the field sampling, measures about 1,036,000 square feet and has been divided into five large areas (see Figure 3): (1) the new die cast area, (2) the grit blasting area, (3) the metal working area, (4) the parts storage area, and (5) the old die cast area. These areas are discussed in further detail in Section 3.1.

2.2 SITE HISTORY

The OMC property was built during several phases from 1927 to 1975. Plant 1 was used for manufacturing operations and office space. Manufacturing operations at Plant 1 included aluminum and cast iron machining, electroless tin plating, electrodeposition painting, wastewater treatment, final



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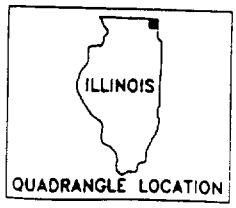

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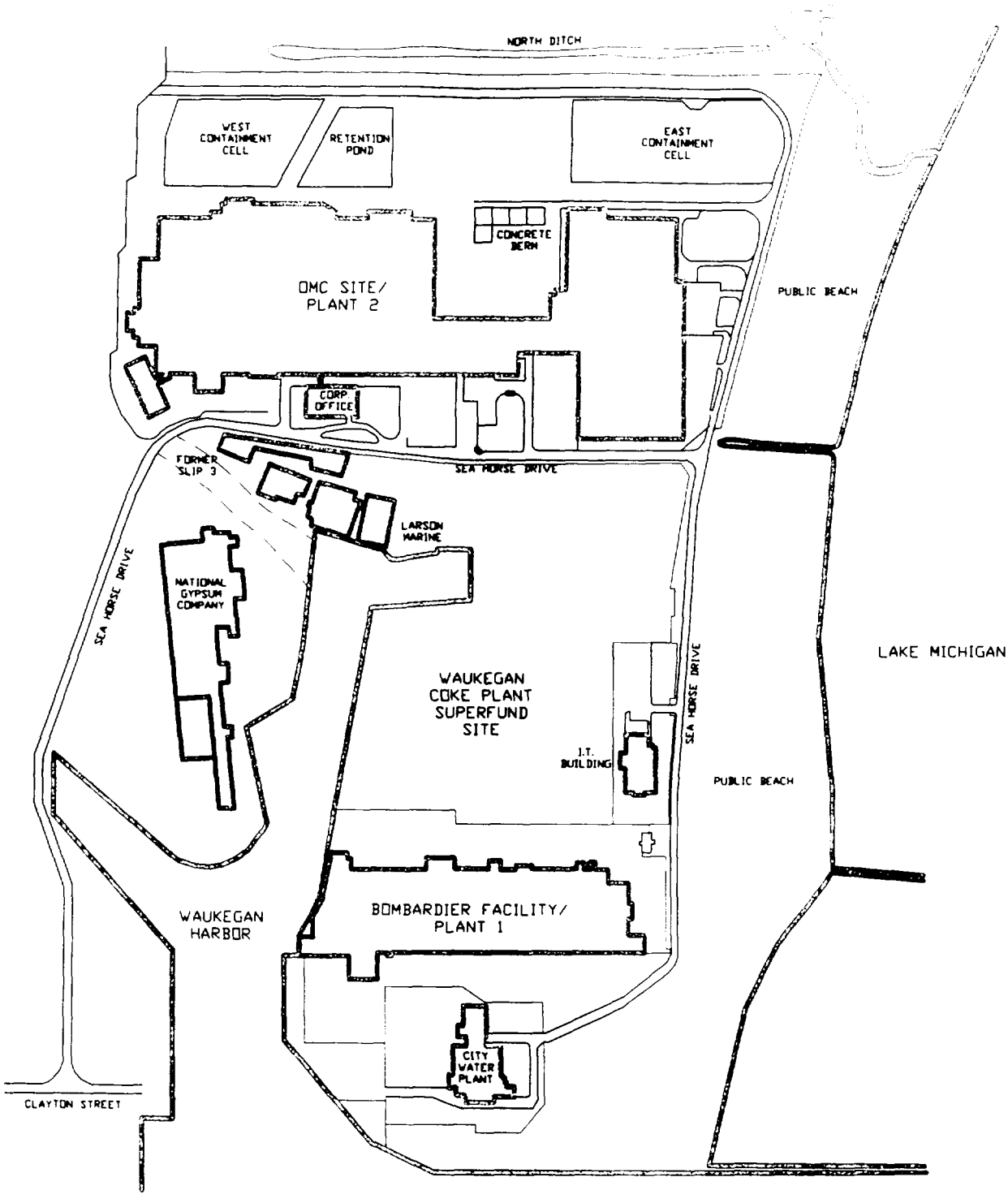
S05-0202-004

FIGURE 1
SITE LOCATION

SOURCE: MODIFIED FROM USGS, 1993 a and b

G:\G\9009 \04-OUTBOARD MARINE CORP\ FIGURE 1 SITE LOCATION.dwg 28/2002 mark.kennedy CH



LEGEND

- BUILDING
- FENCE
- WATER
- AREA BOUNDARY
- WALL

SOURCE: OMC 2002

0 250 500
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FIGURE 2

SITE FEATURES

Tetra Tech EM Inc.

G:\G\9009\L-OUTBOARD MARINE CORP\ FIGURE 2 SITE LAYOUT.dwg 05/ '02 mark.kennedy CH

assembly of outboard motors and stern drive motors, spray painting, vapor degreasing with chlorinated solvents, chromate conversion coating, engine testing, die casting, and electroplating. Floor drains in Plant 1 discharged into the Waukegan Harbor until the late 1940s (TechLaw 2001). The wastewater treatment system in Plant 1 discharges into the North Shore Sanitary District sewer system. Bombardier, which now owns Plant 1, currently maintains offices and performs research and testing of its products in Plant 1.

Construction on the Plant 2 building did not begin until 1949. Plant 2 was used for manufacturing operations that included aluminum smelting and holding, aluminum die casting, aluminum machining, polishing and finishing, spray painting, parts assembly, parts washing, chromate conversion coating, and wastewater pretreatment (TechLaw 2001). Plant 2 contains two sets of pipe chases underneath the flooring in the eastern and western ends of Plant 2. Several drainage systems are present under various plant areas, and some of the drains are reportedly plugged.

OMC used hydraulic fluid containing polychlorinated biphenyls (PCB) in its die casting operations from approximately 1961 to 1972. In the 1980s, sediment in Slip 3 of the Waukegan Harbor was found to contain PCBs at concentrations of over 500 parts per million (ppm). The PCB-containing hydraulic fluid reportedly discharged through the floor drain system to the North Ditch and Slip 3 of the Waukegan Harbor. From 1989 to 1995, remedial activities included hydraulic dredging of sediment in the North Ditch and Waukegan Harbor (Slip 3 and surrounding areas); thermal treatment of the sediments; and placement of the treated sediments into three on-site containment cells - the East Containment Cell and the West Containment Cell, and Former Slip 3. Each containment cell has a well system that maintains an inward hydraulic gradient. Post-closure groundwater monitoring indicates that PCB concentrations have been below the detection limit except in Apr 00, when samples from monitoring well MW-10 contained 1.7 parts per billion (ppb) PCBs.

TechLaw, Inc. (TechLaw) performed a preliminary assessment/visual site inspection (PA/VSI) at the OMC site in Jul 01. During the VSI, TechLaw identified 20 solid waste management units (SWMU) and four areas of concern (AOC). A PA/VSI report was prepared by TechLaw and is the primary source of background information used in this report (TechLaw 2001).

In Jul 01, the U.S. EPA Region 5 Waste Pesticides and Toxics Division performed a limited sampling investigation at the OMC site in conjunction with the PA/VSI conducted by TechLaw. This investigation consisted of sampling (1) pipe chases under Plant 2, (2) monitoring wells north of Plant 2, (3) stained soil near the railroad spur north of Plant 2, (4) liquid in a cistern/sewers located near the outdoor chip wringer area on the north side of Plant 2, (5) a trough of metal-working fluid, and (6) residue in a former PCB tank containment area (U.S. EPA 2001b). Liquid in the pipe chases contained PCBs at concentrations as high as 300 ppb. Monitoring wells contained dichloroethane at concentrations ranging from nondetect to 860 micrograms per liter (μg/L), dichloroethene at concentrations ranging from nondetect to 19,000 μg/L, trichloroethene (TCE) at concentrations ranging from nondetect to 290 μg/L, and vinyl chloride at concentrations ranging from nondetect to 5,800 μg/L. Stained soil near the railroad spur contained PCBs at concentrations as high as 18.5 ppm. Oil in the cisterns in the chip wringing area contained PCBs at concentrations as high as 165 ppm, and water in the cisterns contained dichloroethene at concentrations as high as 160,000 μg/L; TCE at concentrations as high as 2,100 μg/L; and vinyl chloride at concentrations as high as 210 μg/L.

3.0 FIELD SAMPLING ACTIVITIES

The objectives of the field sampling at the OMC site were (1) to identify potential hazardous wastes and oil at the site and their potential for posing threats to human health or the environment and (2) to obtain information about contamination in the soil, sediment, and groundwater at the site pursuant to U.S. EPA's discovery request in the contested matter involving the Trustee's Motion for Approval of Abandonment of Real Property and Records Relating to Real Property dated 01 Nov 01. In addition, field sampling was conducted at the OMC site to estimate the volumes of wastes present at Plant 2. Field sampling activities included a site reconnaissance, container and miscellaneous sampling, wipe sampling, air sampling, soil and sediment sampling, groundwater sampling, SACM sampling, and the inventory.

3.1 SITE RECONNAISSANCE

On 04 Mar 02, representatives from U.S. EPA, the U.S. Department of Justice, Bombardier, the trustee, and START met at Plant 2 of the OMC property to perform a site walk-through. The purpose of the walk-through was to gain familiarity with the large facility and to identify air, wipe, container, and miscellaneous sampling locations. Sample locations were marked with a grease pen, spray paint, or colored flag. Areas identified for sampling are discussed below.

Chemical Storage Building. The chemical storage building is located in the southwest corner of Plant 2 (see Figure 3). This building contains approximately nine 330-gallon totes, 230 55-gallon drums, and 50 small containers. The labeled totes contain corrosives (hydrofluoric acid, nitric acid, potassium hydroxide solution, and fluorosilicic acid). Many of the drums contain oils. The drums, totes, and containers appear to be in good condition. The following samples were identified for collection: (1) samples from various drums and miscellaneous containers, (2) one air sample for PCB analysis; (3) one air sample for volatile organic compound (VOC) analysis; and (4) wipe samples of the floor for PCB analysis.

Old Die Cast Area. This area is located on the west end of Plant 2 and does not contain many containers or much equipment. The pipes in the west end pipe chases in the old die cast area pumped PCB-containing hydraulic oil to die cast machines until 1977, when the die cast machines were dismantled

(U.S. EPA 2001b). The following samples were identified for collection: (1) liquid from pipe chases, (2) wipe samples from the floor where equipment may have once been located, (3) wipe samples from offices in the area both from the floor and from pieces of office furniture, and (4) one air sample in the office area for PCB analysis.

Parts Storage Area. The parts storage area is located in the central portion of the west side of Plant 2 and contains miscellaneous engine parts, and bins containing parts washing fluids. The following samples were identified for collection: (1) wipe samples from the floor and machinery and (2) liquid samples from an open drain, one from a drum, and one from a parts washing bin.

Metal Working Area. The metal working area is located in the eastern portion of the west side of Plant 2 and contains rows of machines (such as drills, lathes, an automated plating line, and other machinery), the water treatment room, the chip wringer room, the corporate laboratory, and the paint spray booth room. The corporate laboratory does not contain any chemicals and was identified for the collection of SACM samples only.

The following samples were identified for collection from the north boiler room: (1) one wipe sample of tar-like material on the floor near a leaking transformer, (2) SACM samples of pipe wrapping and insulation surrounding boilers, and (3) one air sample for PCB analysis, and (4) one liquid sample from a transformer that appeared to have leaked.

Four rows of machinery are located in a large open area of the metal working area. The following samples were identified for collection: (1) composite wipe samples from each half row of the machines; (2) composite wipe samples from each half row of the floor around the machines; (3) composite samples of the solids underneath each half row of the machines; (4) a composite wipe sample of the floor around a caustic cleaner/rinser south of the fourth machine row; (5) two air samples for PCB analysis from either end of the machines; (6) one air sample for VOC analysis from the central area of the machines; and (7) liquid samples from drains and open drums in this area.

The water treatment room is located in the center of Plant 2 in the metal working area, where chrome

plating and TCE recycling occurred in the past. A basement in this area contains troughs used for chrome plating operations. These troughs contained a solid residue. The following samples were identified for collection: (1) one composite sample of solids from floor and drains and (2) a composite sample of solids from the troughs in the basement.

The chip wringer room is located on the north side of the building in the metal working area. The machining process associated with the production of cast iron marine engine components used an oil-based lubricant that became mixed with metal chips. The oily chips, or turnings, were transported to one of two wringers still located in the chip wringer room, where they were placed in concrete pits and allowed to drain. The metal chips, which still contained oil residue, were then stored in either one of two large steel hoppers located on the north side of Plant 2 or in a concrete hopper located near Plant 1. One of the two large steel hoppers is still present today outside the chip wringing room. Stained soil in this area is contaminated with PCBs, and the liquid in the open drains and cisterns under the hopper is reportedly contaminated with PCBs and chlorinated solvents. The following samples were identified for collection: (1) one composite solid sample of metal chips on the floor underneath the chip wringers, (2) two liquid samples, one from a cistern and one from a manhole under the floor, (3) one air sample for VOC analysis, (4) one air sample for PCB analysis, (5) one composite wipe sample of the floor, and (6) three composite wipe samples, one from each chip wringer and one from a chip conveyor. The following samples were identified for collection from around the hopper outside the chip wringing room: (1) one liquid sample from a cistern under the hopper and (2) one composite soil sample.

The former paint spray booth room is located on the east end of the metal working area and contains approximately 16 drums and 74 small containers of suspected flammable paint. The following samples were identified for collection: (1) one air sample for VOC analysis and (2) liquid samples from drums.

Grit Blasting Area. The grit blasting area contains machines for grit blasting metal parts, a tank labeled "soluble oil" surrounded by a concrete berm, and a parts storage area. The concrete berm surrounding the tank was filled with a liquid suspected to be oil. The following samples were identified for collection: (1) a liquid sample of material in the concrete berm surrounding the soluble oil tank, (2) one wipe sample of the floor beneath a blasting unit, (3) one air sample for VOC analysis from near the soluble oil tank,

and (4) one air sample for PCB analysis from near the soluble oil tank.

New Die Cast Area. This area contains several rows of machines for casting aluminum parts, an aluminum smelter, a large boiler, and an area of several aboveground storage tanks (AST). The following samples were identified for collection: (1) SACM samples from the boiler and aluminum smelter, (2) one air sample near the ASTs, (3) composite wipe samples of the die casting machines, (4) composite wipe samples of the floor surrounding the die casting machines, (5) solid samples of material on the floor under the machines, (6) liquid samples from drip pans underneath the die cast machines, (7) wipe samples of the floor around the aluminum smelter, (8) one air sample for PCB analysis near the aluminum smelter, (9) one wipe sample of the floor near the boiler, (10) one wipe sample of the boiler, (11) one liquid sample from each accessible AST, (12) wipe samples of the floor around the ASTs, (13) one liquid sample from a red tote located near the ASTs, (14) wipe samples of the floor in a large open area in the northwest corner of the new die cast area, (15) one composite wipe sample of the AST surfaces, and (16) one wipe sample of a pipe lying on the floor near the die cast machines.

Samples to be collected outside of Plant 2 (except those by the chip wringing room) were not identified during the site reconnaissance.

3.2 CONTAINER AND MISCELLANEOUS SAMPLING

Container and miscellaneous samples consisted of floor solids and materials from drums, totes, tanks, open bins, drains, pipe chases, and cisterns in Plant 2. Sixty one container and miscellaneous samples (fifty seven original samples plus four duplicate samples) were collected on 05 and 06 Mar 02 (see Figure 4). Table 1 summarizes date and time collected, sample matrices, analyses to be performed, and sampling location for each sample. The PCB transformer in the north boiler room that appeared to have leaked was not sampled during the field investigation.

Closed drums were sampled using Level B personal protective equipment (PPE) and disposable drum thieves. Air monitoring was performed using a photoionization detector (PID) and combustible gas indicator (CGI) during the sampling of closed drums.

A drum and tote in the chemical storage building were labeled as containing hydrofluoric acid. START donned modified Level B PPE (including fully-encapsulated suits) and tested the drum and tote using pH paper and hydrogen fluoride Draeger tubes. The tote had a pH of 4, and the head space gave a reading of 15 ppm hydrogen fluoride. The drum had a pH of 5, and the head space did not contain hydrogen fluoride as tested using the Draeger tube.

Liquid samples from open drums and containers, cisterns, bins, and drains were collected using a disposable bailer. Samples of floor solids under machines in the metal working area consisted of 4-point composite samples collected using a disposable plastic putty knife and disposable foil pans.
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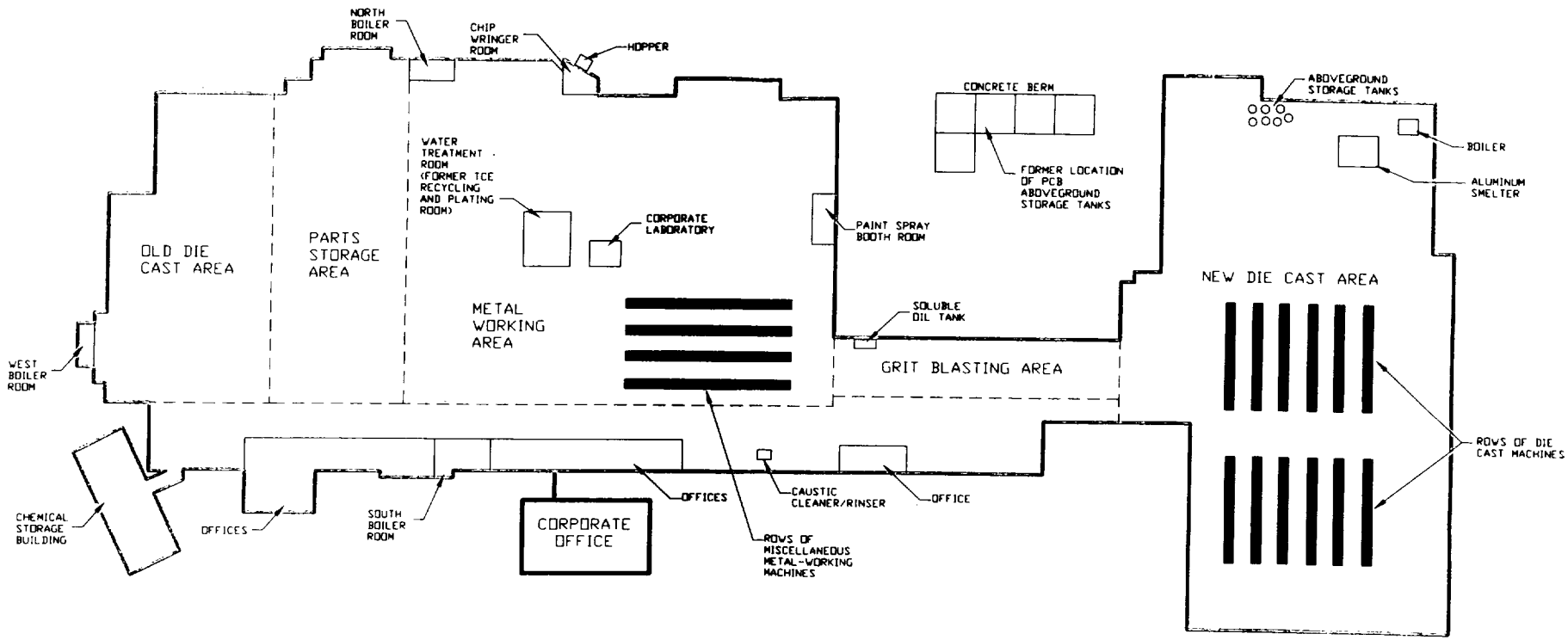

LEGEND

BUILDING

AREA BOUNDARY

WALL

0 75 150

SCALE IN FEET

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FIGURE 3
PLANT 2 FEATURES

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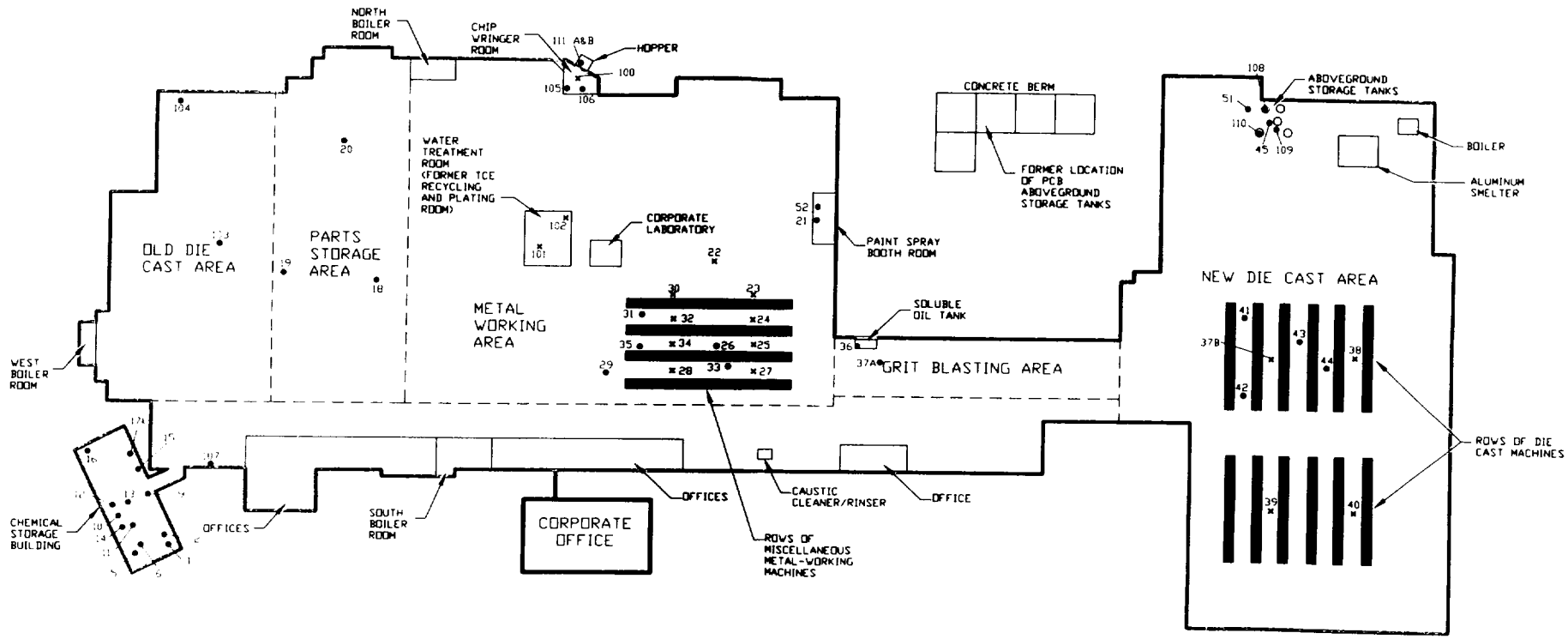
SOURCE: OMC 2002



LEGEND

- BUILDING
- AREA BOUNDARY
- WALL
- × COMPOSITE SAMPLING LOCATION AREA
- • GRAB SAMPLING LOCATION

SOURCE OMC 2002

0 75 150
SCALE IN FEET

N

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FIGURE 4
CONTAINER AND MISCELLANEOUS SAMPLING LOCATIONS

Tetra Tech EM Inc.

TABLE 1

CONTAINER AND MISCELLANEOUS SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Matrix	Analyses							Sampling Location
				PCBs	VOCs	TPH	Flash point	pH	RCRA Metals	Cyanide	
Chemical Storage Building											
W-01	05 Mar 02	1025	Liquid	x	x	x	x				55-gallon drum marked "scrap oil"
W-02	05 Mar 02	1041	Liquid	x	x		x				55-gallon drum with waste material label "oil"
W-05	05 Mar 02	1050	Liquid		x						55-gallon drum
W-06	05 Mar 02	1110	Liquid	x	x		x		x		55-gallon drum with waste material label "oil dri"
W-09	05 Mar 02	1125	Liquid		x		x				55-gallon drum with waste material label "Chem Solve 1,1,1-TCE"
W-10	05 Mar 02	1137	Liquid	x	x	x	x				55-gallon drum
W-10D	05 Mar 02	1137	Liquid	x	x	x	x				Duplicate of sample No. W-10
W-11	05 Mar 02	1150	Liquid	x	x	x					55-gallon drum labeled "hydraulic oil"
W-12	05 Mar 02	1158	Liquid		x						55-gallon drum with waste material label "methanol"
W-13	05 Mar 02	1340	Liquid					x			55-gallon poly drum
W-14	05 Mar 02	1534	Solid	x					x		Cubic yard box labeled "wastewater treatment sludge"
W-15	05 Mar 02	1352	Liquid			x					55-gallon drum labeled "diesel fuel"
W-16	05 Mar 02	1427	Liquid	x	x						55-gallon drum
W-17B	05 Mar 02	1404	Liquid	x	x		x	x			Leaking 55-gallon drum

TABLE 1 (Continued)

CONTAINER AND MISCELLANEOUS SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Matrix	Analyses							Sampling Location
				PCBs	VOCs	TPH	Flash point	pH	RCRA Metals	Cyanide	
Old Die Cast Area											
W-103	05 Mar 02	1115	Liquid	x	x						Pipe chase
W-104	05 Mar 02	1130	Liquid	x	x						Pipe chase
W-107	05 Mar 02	1520	Liquid	x	x						Pipe chase with red hose inserted which is discharging hot water
Parts Storage Area											
W-18	05 Mar 02	0930	Solid	x		x	x				Drain near sample No. WIPE-24
W-19	05 Mar 02	0945	Solid	x	x						Drum of oil into which overhead pipe drains
W-20	05 Mar 02	1002	Liquid	x	x		x				Parts washer bin
Metal Working Area											
W-21	05 Mar 02	1615	Liquid		x						55-gallon drum labeled "methyl ethyl ketone" in paint spray booth room
W-22	05 Mar 02	1420	Solid	x		x	x		x		Composite of solids in a pit
W-23	05 Mar 02	1330	Solid	x		x	x				Composite of solids under first half of first row of machines
W-24	05 Mar 02	1345	Solid	x		x	x				Composite of solids under first half of second row of machines
W-25	05 Mar 02	1355	Solid	x		x	x				Composite of solids under first half of third row of machines
W-26	05 Mar 02	1400	Liquid	x		x		x			Open drum near sample No. W-25

TABLE 1 (Continued)

CONTAINER AND MISCELLANEOUS SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Matrix	Analyses							Sampling Location
				PCBs	VOCs	TPH	Flash point	pH	RCRA Metals	Cyanide	
Metal Working Area (Continued)											
W-27	05 Mar 02	1410	Solid	x		x	x				Composite of solids under first half of fourth row of machines
W-28	05 Mar 02	1430	Solid	x		x	x				Composite of solids under second half of fourth row of machines
W-28D	05 Mar 02	1430	Solid	x		x	x				Duplicate of sample No. W-28
W-29	05 Mar 02	1445	Solid	x		x	x	x			Greasy solids on floor around tanks near sample No. W-28
W-30	3/6/02	0920	Solid	x		x	x		x		Composite of solids under second half of first row of machines
W-31	3/6/02	0930	Liquid	x	x						Under grate in floor near "Hydromation" tank
W-32	3/6/02	1000	Solid	x		x	x		x		Composite of solids under second half of second row of machines
W-33	05 Mar 02	1505	Liquid	x		x	x				Drain hole in floor near first half of third row of machinery
W-34	3/6/02	1010	Solid	x		x	x		x		Composite of solids under second half of third row of machines
W-35	05 Mar 02	1500	Solid	x		x	x				Drum near second half of third row of machinery
W-52	05 Mar 02	1630	Liquid		x		x		x		5-gallon paint bucket labeled "Flammable Liquid Charcoal High Solids Acrylic Bake" in paint spray booth room
W-52D	05 Mar 02	1630	Liquid		x		x		x		Duplicate of sample No. W-52
W-100	05 Mar 02	1015	Solid	x	x	x	x				Composite of metal chips on floor in chip wringer room

TABLE 1 (Continued)

CONTAINER AND MISCELLANEOUS SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Matrix	Analyses							Sampling Location
				PCBs	VOCs	TPH	Flash point	pH	RCRA Metals	Cyanide	
Metal Working Area (Continued)											
W-101	05 Mar 02	1030	Solid	x	x			x	x	x	Composite of solids on floor in wastewater treatment room
W-102	05 Mar 02	1040	Solid	x	x			x	x	x	Composite of solids in troughs in basement of wastewater treatment room
W-105	05 Mar 02	1145	Liquid	x	x						Manhole in chip wringer room
W-106	05 Mar 02	1200	Liquid	x	x						Cistern in chip wringer room
W-111A	3/6/02	0905	Liquid	x	x						Cistern near hopper outside chip wringer room (water layer)
W-111B	3/6/02	0910	Liquid	x	x						Cistern near hopper outside chip wringer room (oil layer)
Grit Blasting Area											
W-36	05 Mar 02	1315	Liquid	x		x	x				Containment berm of soluble oil tank
W-37A	05 Mar 02	1325	Solid	x			x		x		Graphite material on floor near grit blasting machine (near soluble oil tank)
New Die Cast Area											
W-37B	05 Mar 02	1635	Solid	x		x	x				Composite of floor solids in northwest quadrant of machines
W-38	05 Mar 02	1640	Solid	x		x	x				Composite of floor solids in northeast quadrant of machines
W-39	05 Mar 02	1650	Solid	x		x	x				Composite of floor solids in southwest quadrant of machines
W-40	05 Mar 02	1655	Solid	x		x	x				Composite of floor solids in southeast quadrant of machines

TABLE 1 (Continued)

CONTAINER AND MISCELLANEOUS SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Matrix	Analyses							Sampling Location
				PCBs	VOCs	TPH	Flash point	pH	RCRA Metals	Cyanide	
New Die Cast Area (Continued)											
W-41	3/6/02	0920	Liquid	x		x	x		x		Oil from drainage sump at #420 drip pan
W-42	3/6/02	1030	Liquid	x		x	x		x		Oil from #321 drip pan
W-42D	3/6/02	1030	Liquid	x		x	x		x		Duplicate of sample No. W-42
W-43	3/6/02	1045	Liquid	x		x	x		x		Oil from #408 drip pan
W-44	3/6/02	1050	Liquid	x		x	x		x		Oil from #307 drip pan
W-45	05 Mar 02	1605	Solid	x		x	x				AST area sample of oil-soaked solids near sample No. W-108
W-51	05 Mar 02	1620	Liquid	x		x	x				Red tote near AST area
W-108	05 Mar 02	1555	Liquid	x		x	x				AST labeled "Fyrquel 220 Hydraulic Fluid"
W-109	05 Mar 02	1610	Liquid	x	x		x	x			AST area open drum next to tank labeled "Waste Soap and Water"
W-110	05 Mar 02	1630	Liquid	x				x			AST labeled "Permeate Holding Tank"

Notes:

AST = Aboveground storage tank
PCB = Polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
TPH = Total petroleum hydrocarbons
VOC = Volatile organic compound

3.3 WIPE SAMPLING

A total of 70 wipe samples were collected on 05 and 06 Mar 02 from equipment, flooring, and office furniture in Plant 2 (see Figure 5). Table 2 summarizes each sample, date and time of collection, sample type (grab or composite), and sampling location. All wipe samples were analyzed for PCBs only.

Wipe samples were collected on flat surfaces at predetermined sampling locations. A 4-ounce clean glass container with a teflon-lined cap containing a 2- by 2-inch or 3- by 3-inch sterile cotton gauze soaked with hexane was used to collect most of the wipe samples. Some of the wipe samples were collected using an ashless quantitative filter paper that was provided by the laboratory instead of the gauze. New disposable latex or nitrile gloves were used each time a wipe sample was collected to minimize cross-contamination of the samples. Grab samples were collected using a 10- by 10-centimeter (cm) cardboard template for a total wipe surface of 100 square centimeters (cm^2). Composite samples were collected using a 5- by 5-cm cardboard template (25 cm^2) and selecting four areas from the surface to wipe for a total wipe surface area of 100 cm^2. The wipe samples were collected as summarized below.

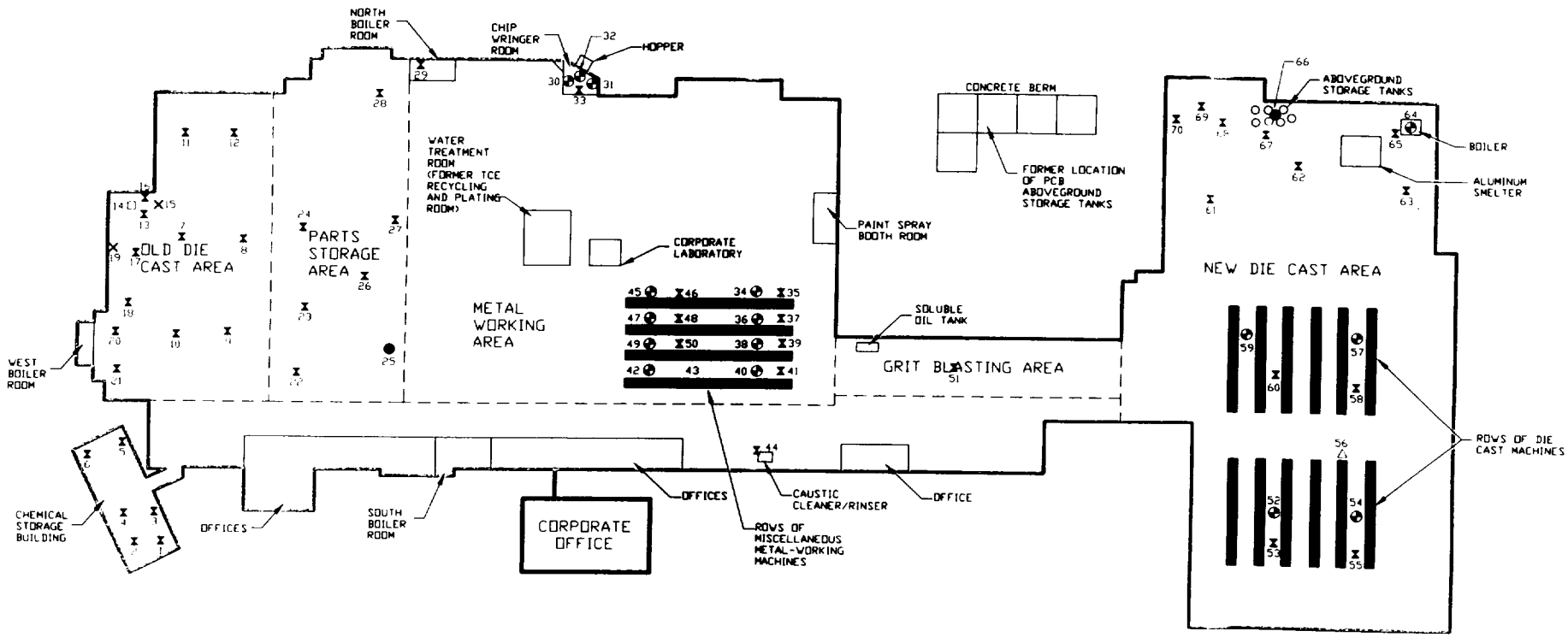
1. A template was placed on the surface to be wiped.

2. The 4-ounce glass container was opened by one team member.

3. Wearing new disposable gloves, the second team member inserted fingers inside the glass container to retrieve the cotton gauze and squeeze out the excess hexane back into the glass container.

4. The sampler then exerted a consistent pressure against the area being sampled and wiped from left to right and then from top to bottom in rows in the sampling area framed by the template, ensuring that the template was not displaced. Once the bottom of the sampling area was reached, the cotton gauze was folded and the area wiped from top to bottom and in the left to right direction thereby ensuring that each point within the area had been wiped at least twice. For composite samples, this procedure was repeated three more times at three different locations. For composite samples, half a hexane-soaked gauze pad was used for each sampling point.

5. The pad was folded once more and inserted into the open glass container and allowed to air dry. Residual solvent in the glass container was allowed to evaporate. The sample container was closed and the lid tightened.



LEGEND

- BUILDING
- AREA BOUNDARY
- WALL
- FLOOR
- MACHINERY
- FILE CABINET
- DESK
- TANK SURFACE
- PIPE

SOURCE OMC 2002

0 75 150
SCALE IN FEET

OUTBOARD MARINE CORPORATION
WAUKEGAN, LAKE COUNTY, ILLINOIS
TDD NO S05-0202-004

FIGURE 6
WIPE SAMPLING LOCATIONS

Tetra Tech EM Inc.

TABLE 2

WIPE SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Grab	Composite	Sampling Location and Comments
Chemical Storage Building					
WIPE-01	05 Mar 02	1310	X		Floor near drums of PCB ballasts
WIPE-02	05 Mar 02	1315	X		Floor near drum of hydrofluoric acid
WIPE-03	05 Mar 02	1320	X		Floor in chemical/office area
WIPE-04	05 Mar 02	1325	X		Floor near drum sample No. W-10
WIPE-05	05 Mar 02	1325	X		Floor near drum sample No. W-17
WIPE-06	05 Mar 02	1335	X		Floor in front of electrical panel inside concrete berm
Old Die Cast Area					
WIPE-07	05 Mar 02	1340	X		Floor in the west-central portion
WIPE-08	05 Mar 02	1343	X		Floor in the east-central portion
WIPE-09	05 Mar 02	1345	X		Floor in southeastern portion
WIPE-10	05 Mar 02	1350	X		Floor in southwestern portion
WIPE-11	05 Mar 02	1355	X		Floor in the northwestern portion
WIPE-12	05 Mar 02	1400	X		Floor in the northeastern portion
WIPE-13	05 Mar 02	1405	X		Floor in small room next to office area
WIPE-14	05 Mar 02	1405	X		File cabinet in office area
WIPE-15	05 Mar 02	1408	X		Desk in office area
WIPE-16	05 Mar 02	1410	X		Floor between desk and file cabinet in office area
WIPE-17	05 Mar 02	1415	X		Floor between wood shop and office area by pole with fire extinguisher
WIPE-18	05 Mar 02	1417	X		Floor between the office area and wood shop
WIPE-19	05 Mar 02	1420	X		Desk between the office area and wood shop

TABLE 2 (Continued)

WIPE SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Grab	Composite	Sampling Location and Comments
Old Die Cast Area (Continued)					
WIPE-20	05 Mar 02	1425	X		Floor in center of wood shop area
WIPE-21	05 Mar 02	1427	X		Floor south of the wood shop area about 20 to 30 feet from west wall
Parts Storage Area					
WIPE-22	05 Mar 02	1445	X		Floor near center pole
WIPE-23	05 Mar 02	1450	X		Floor just east of blue fence
WIPE-24	05 Mar 02	1453	X		Floor near 8th pole from south wall of building about 100 feet north of sample No. WIPE-23
WIPE-25	05 Mar 02	1455	X		Blue tank CD-540 (500-gallon capacity)
WIPE-26	05 Mar 02	1500	X		Floor northwest of sample No. WIPE-25
WIPE-27	05 Mar 02	1505	X		Floor in yellow gate area on eastern edge of parts storage area
WIPE-28	05 Mar 02	1510	X		Floor between poles 6W and 7W near machinery and about 100 feet southwest of north boiler room
Metal Working Area					
WIPE-29	05 Mar 02	1515	X		North boiler room floor on upper level (black tar-like material)
WIPE-30	05 Mar 02	1525		X	Chip wringer room; front chip conveyor
WIPE-31	05 Mar 02	1530		X	Chip wringer room; chip wringer machine on east side of room
WIPE-32	05 Mar 02	1535		X	Chip wringer room; chip wringer machine on west side of room
WIPE-33	05 Mar 02	1545		X	Chip wringer room; floor
WIPE-34	05 Mar 02	1610		X	First half of first row of machinery
WIPE-35	05 Mar 02	1615		X	Floor under first half of first row of machinery
WIPE-36	05 Mar 02	1625		X	First half of second row of machinery
WIPE-37	05 Mar 02	1630		X	Floor under first half of second row of machinery

TABLE 2 (Continued)

WIPE SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Grab	Composite	Sampling Location and Comments
Metal Working Area (Continued)					
WIPE-38	05 Mar 02	1640		X	First half of third row of machinery
WIPE-39	05 Mar 02	1650		X	Floor under first half of third row of machinery
WIPE-40	06 Mar 02	0855		X	First half of fourth row of machinery
WIPE-41	06 Mar 02	0900		X	Floor under first half of fourth row of machinery
WIPE-42	06 Mar 02	0905		X	Second half of fourth row of machinery
WIPE-43	06 Mar 02	0910		X	Floor under second half of fourth row of machinery
WIPE-44	06 Mar 02	0920		X	Floor around caustic/cleaner rinser south of fourth row of machinery
WIPE-45	06 Mar 02	0925		X	Second half of first row of machinery
WIPE-46	06 Mar 02	0930		X	Floor under second half of first row of machinery
WIPE-47	06 Mar 02	0955		X	Second half of second row of machinery
WIPE-48	06 Mar 02	0957		X	Floor under second half of second row of machinery
WIPE-49	06 Mar 02	1000		X	Second half of third row of machinery
WIPE-50	06 Mar 02	1005		X	Floor under second half of third row of machinery
Grit Blasting Area					
WIPE-51	06 Mar 02	1015	X		Floor southeast of soluble oil tank near a blasting unit
New Die Cast Area					
WIPE-52	06 Mar 02	1030		X	Machines in southwest quadrant of machinery
WIPE-53	06 Mar 02	1035		X	Floor in southwest quadrant of machinery
WIPE-54	06 Mar 02	1040		X	Machines in southeast quadrant of machinery
WIPE-55	06 Mar 02	1045		X	Floor in southeast quadrant of machinery
WIPE-56	06 Mar 02	1055	X		Inside of green pipe in southeast quadrant of machinery

TABLE 2 (Continued)

WIPE SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Grab	Composite	Sampling Location and Comments
New Die Cast Area (Continued)					
WIPE-57	06 Mar 02	1100		X	Machines in northeast quadrant of machinery
WIPE-58	06 Mar 02	1105		X	Floor in northeast quadrant of machinery
WIPE-59	06 Mar 02	1110		X	Machines in northwest quadrant of machinery
WIPE-60	06 Mar 02	1120		X	Floor in northwest quadrant of machinery
WIPE-61	06 Mar 02	1125	X		Floor west of aluminum smelter
WIPE-62	06 Mar 02	1130	X		Floor west of aluminum smelter
WIPE-63	06 Mar 02	1135	X		Floor southeast of aluminum smelter
WIPE-64	06 Mar 02	1145		X	Boiler
WIPE-65	06 Mar 02	1150		X	Floor by boiler
WIPE-66	06 Mar 02	1300		X	Composite of AST surfaces
WIPE-67	06 Mar 02	1315		X	Floor outside AST containment
WIPE-68	06 Mar 02	1320	X		Floor west of the AST area
WIPE-69	06 Mar 02	1325		X	Floor west of ASTs near pole 20A
WIPE-70	06 Mar 02	1330		X	Floor in jeep repair area southwest of sample No. WIPE-69

Notes:

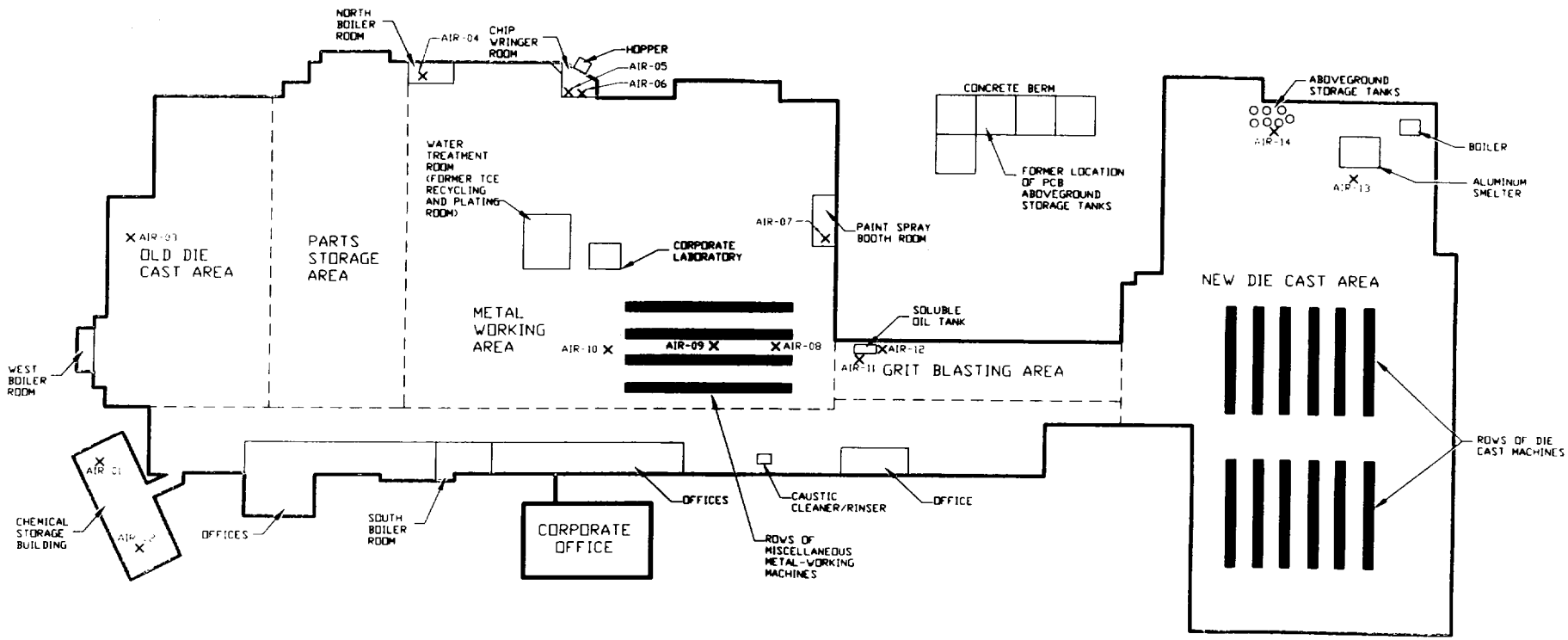
AST = Aboveground storage tank

3.4 AIR SAMPLING

Five VOC and nine PCB air samples were collected on 05 Mar 02 from various areas within Plant 2 (see Figure 6). In addition, a VOC and PCB blank air sample were collected on 05 Mar 02. Tables 3 and 4 summarize locations and conditions during VOC and PCB air sampling, respectively.

VOCs were sampled through the use of summa canisters and analyzed by gas chromatography following EPA Method TO-14A (U.S. EPA 1999a) and Tetra Tech's Standard Operating Procedure (SOP) 073, as applicable. Integrated 6- to 8-hour sampling was conducted using 6-liter stainless steel summa canisters equipped with control valves. The air flow, vacuum, and ambient air temperature were checked before and after sampling. Summa canisters were placed at 4 to 6 feet above the floor for sampling except for samples AIR-01 and AIR-07, for which the canisters were placed on the floor.

PCBs were analyzed for following sampling and analysis procedures specified in EPA Method TO-10A (U.S. EPA 1999b) and Tetra Tech's SOP 073, as applicable. Portable air sampling pumps were set at an air flow rate of approximately 4 liters per minute. Polyurethane foam (PUF) cartridges were connected to the air sampling pumps by new plastic tygon tubing. The PUFs were set at 4 to 6 feet above the floor. The air sampling pumps were run for 6 to 8 hours at a constant air flow, that was verified and recorded before and after the sampling period.



LEGEND

BUILDING

× AIR SAMPLING LOCATION

— — AREA BOUNARY

——— WALL

SOURCE OMC 2002

0 75 150

SCALE IN FEET

N

OUTBOARD MARINE CORPORATION
WAUKEGAN, LAKE COUNTY, ILLINOIS
TDD NO. S05-0202-004

FIGURE 6
AIR SAMPLING LOCATIONS

Tetra Tech EM Inc.

TABLE 3

VOC AIR SAMPLING SUMMARY

Sample No.	Start Time	Stop Time	Vacuum Before Sampling (mm Hg)	Vacuum After Sampling (mm Hg)	Average Temperature During Sampling (°F)	Sampling Location
AIR-01	0925	1720	> 30	3	57	Chemical storage building
AIR-05	1015	1740	> 30	7	58.5	Chip wringer room
AIR-07	1025	1750	> 30	4	60	Paint spray booth room
AIR-09	1045	1755	> 30	6	60	Center of area containing machinery in metal working area
AIR-11	1110	1805	> 30	6	60	Near soluble oil tank in grit blasting area
AIR-BLK-01	NA	NA	> 30	NA	NA	VOC blank sample (grab summa canister sample collected in parking lot outside Plant 2)

Notes:

Hg = Mercury
mm = Millimeter
NA = Not applicable
VOC = Volatile organic compound

TABLE 4

PCB AIR SAMPLING SUMMARY

Sample No.	Start Time	Stop Time	Average Flow Rate (L/min)	Average Temperature (°F)	Total Volume of Air Sampled (L)	Sampling Location
AIR-02	0930	1725	3.892	57	1,848.7	Chemical storage building
AIR-03	0944	1730	4.112	61	1,916.2	Old die cast area office
AIR-04	1000	1735	3.6625	57	1,666.4	North boiler room
AIR-06	1010	1740	4.181	58.5	1,881.45	Chip wringer room
AIR-08	1030	1758	3.739	60	1,675.1	Eastern third of area containing machinery in metal working area
AIR-10	1048	1755	4.057	60	1,732.3	Western third of area containing machinery in metal working area
AIR-12	1113	1805	3.9665	60	1,634.2	Near soluble oil tank in grit blasting area
AIR-13	1130	1810	3.8505	55	1,540.2	Near aluminum smelter in new die cast area
AIR-14	1133	1815	4.1505	61	1,668.5	Near ASTs in new die cast area
AIR-BLK-02	NA	NA	NA	NA	NA	PCB blank sample (unopened PUF tube)

Notes:

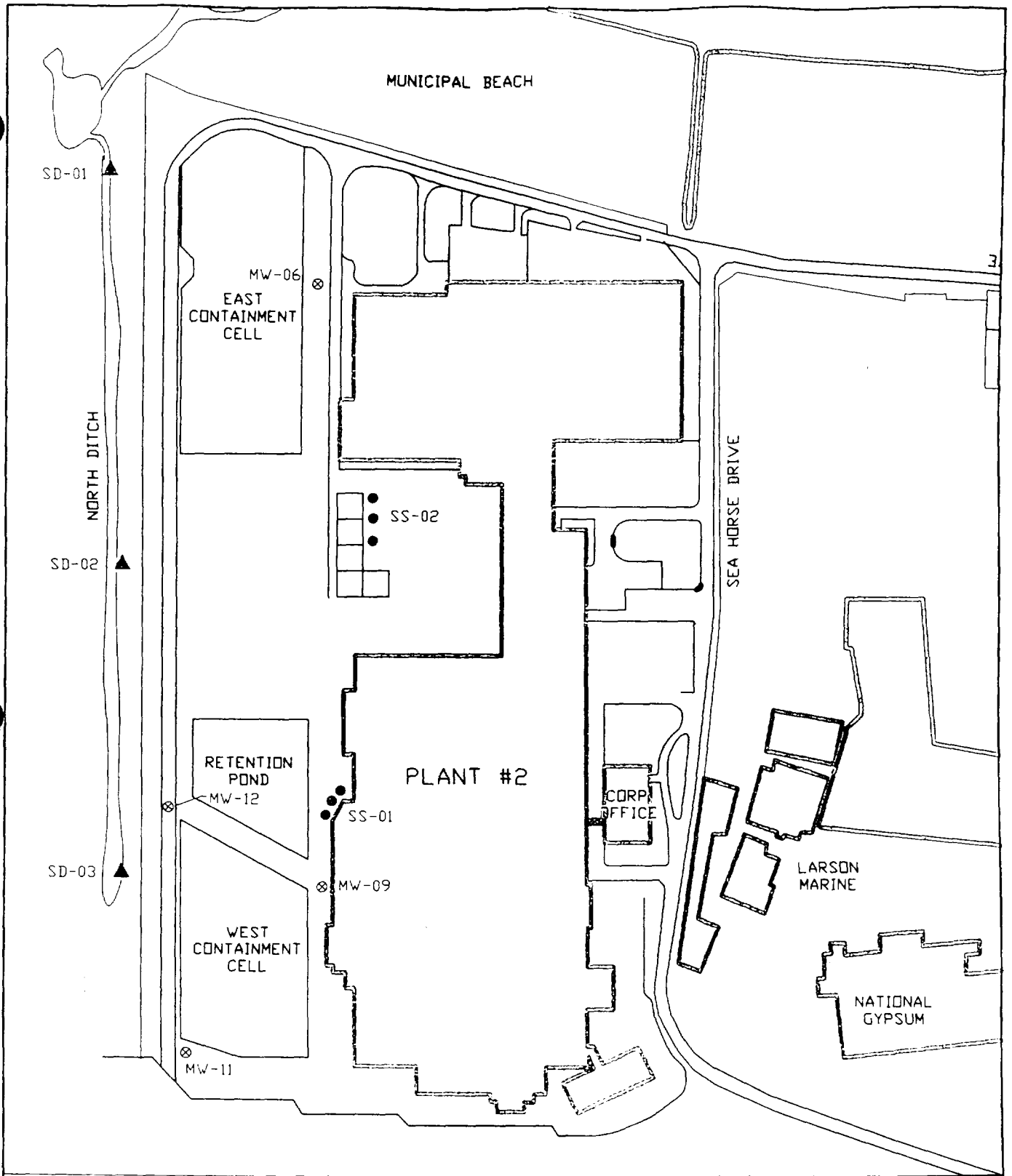
AST = Aboveground storage tank
L = Liter
L/min = Liter per minute
NA = Not applicable
PCB = Polychlorinated biphenyl
PUF = Polyurethane foam

3.5 SOIL AND SEDIMENT SAMPLING

Two soil samples, one duplicate soil sample, and three sediment samples were collected outside Plant 2 on 06 Mar 02 (see Figure 7). Table 5 summarizes the samples, date and time collected, analyses, and locations for the soil and sediment samples.

Soil sample SS-01 was collected from outside the chip wringer room near the hopper and soil sample SS-02 was collected from the former PCB AST area. Both samples were three-point composites collected from 0 to 12 inches below ground surface (bgs). An auger with a slide hammer attachment was used to collect soil samples. Soil from the auger was placed into a disposable foil pan or bucket, and then a stainless-steel spoon or trowel was used to thoroughly mix the soil in the pan. Soil was then placed into appropriate sample jars. It was originally planned to use encore samplers to collect the soil samples for VOC analysis; however, the ground was too frozen to allow this. Therefore, samples for VOC analysis were packed into 4-ounce jars with Teflon-lined lids. The soil samples collected mostly consisted of sand and silt.

The three sediment samples were collected from the North Ditch at 0 to 12 inches bgs. Samples were collected from downstream locations first to minimize sediment disturbance. An auger was used to collect sediment samples. Sediment from the auger was placed on plastic sheeting, and then a stainless-steel spoon or trowel was used to fill appropriate sample jars. The sediment samples were collected approximately 2 feet from the shore.



LEGEND

- BUILDING
- FENCE
- WATER
- COMPOSITE SOIL SAMPLING POINT
- SEDIMENT SAMPLING LOCATION
- GROUNDWATER SAMPLING LOCATION

SOURCE: OMC 2002

0 150 300
SCALE IN FEET

OUTBOARD MARINE CORPORATION
WAUKEGAN, LAKE COUNTY, ILLINOIS
S05-0202-004

FIGURE 7
SOIL, SEDIMENT AND GROUNDWATER SAMPLING LOCATIONS

Tetra Tech EM Inc.

G:\G\9009\ 04-OUTBOARD MARINE CORP\ FIGURE 7 SOIL SEDIMENT GOUN R.dwg 04/08/2002 mark.kennedy

TABLE 5

SOIL AND SEDIMENT SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Analyses			Sampling Location
			PCBs	VOCs	RCRA Metals	
Soil Samples						
SS-01	03/06/02	0925	X	X	X	Three-point composite sample near hopper outside chip wringer room
SS-02	03/06/02	0955	X	X		Three-point composite sample in former PCB AST area
SS-02D	03/06/02	0955	X	X		Duplicate of sample No. SS-02
Sediment Samples						
SD-01	03/06/02	1100	X	X		North ditch 40 feet west of where the ditch joins the North Shore Sanitary District discharge
SD-02	03/06/02	1115	X	X		North ditch in approximately the center between the beginning of the ditch and where the ditch joins the North Shore Sanitary District discharge
SD-03	03/06/02	1130	X	X		North ditch 60 feet east of beginning of ditch

Notes:

PCB = Polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
VOC = Volatile organic compound

3.6 GROUNDWATER SAMPLING

A total of four groundwater samples were collected from monitoring wells MW-06, MW-09, MW-11, and MW-12 (see Figure 7). All samples were analyzed for PCBs and VOCs and were collected on 06 Mar 02.

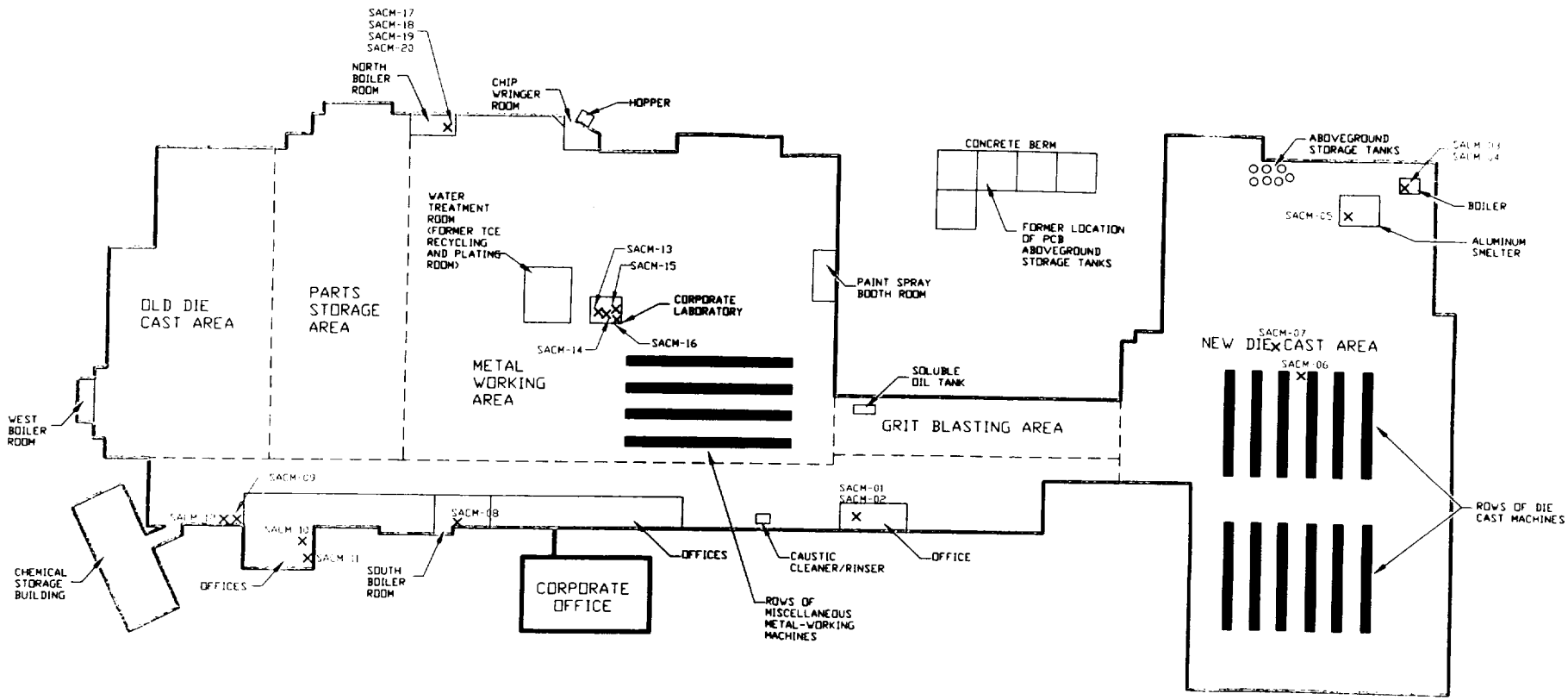
Groundwater samples were collected from wells using a disposable bailer at each monitoring well. The samples were collected directly from the bailer and placed in appropriate sample containers. The monitoring wells were not purged prior to sampling. Below is a summary of water depths and comments on the water color recorded during monitoring well sampling.

Sample No.	Depth to Water (feet)	Comment
MW-06	7.13	Water clear
MW-09	5.84	Water yellowish
MW-11	6.70	Water clear
MW-12	6.1	Water yellowish

3.7 SACM SAMPLING

START performed a SACM survey at the OMC facility on 06 Mar 02. A Tetra Tech certified asbestos inspector performed the limited SACM survey of Plant 2. Because the building was constructed in the late 1940s, the SACM survey was conducted to determine if the building contains asbestos and to identify the locations.

The building consists of a metal exterior with a flat roof and concrete slab flooring. The survey included visually assessing potential interior areas for SACM. A total of 20 homogeneous areas were sampled (see Figure 8). Samples were selected based on the type of building material and the historical likelihood of the material containing asbestos. The survey was based solely on visual observations. Table 6 summarizes the samples collected, sampling date and time, description of sample material, and sampling locations of SACM samples collected from Plant 2.



LEGEND

BUILDING

× SUSPECTED ASBESTOS CONTAINING MATERIAL SAMPLING LOCATION

— — AREA BOUNDARY

——— WALL

SOURCE OMC 2002

0 75 150
SCALE IN FEET

N

OUTBOARD MARINE CORPORATION
WAUKEGAN, LAKE COUNTY, ILLINOIS
TDD NO. S05-0202-004

FIGURE 8
SACM SAMPLING LOCATIONS

Tetra Tech EM Inc.

TABLE 6

SACM SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Material Description	Sampling Location
SACM-01a and b	06 Mar 02	1020	1 foot square tan floor tile with mastic	Office south of grit blasting area
SACM-02a and b	06 Mar 02	1025	2- by 4-foot white smooth ceiling tile	Office south of grit blasting area
SACM-03a and b	06 Mar 02	1050	White, fluffy thermal system insulation	Boiler in new die cast area
SACM-04a and b	06 Mar 02	1052	White insulation board	Boiler in new die cast area
SACM-05a and b	06 Mar 02	1100	Smelter unit insulation	Aluminum smelter unit in new die cast area
SACM-06a and b	06 Mar 02	1110	Molten metal unit white insulation board	New die cast area
SACM-07a and b	06 Mar 02	1120	Molten metal unit pipe wrapping	New die cast area
SACM-08a and b	06 Mar 02	1145	Blue pipe insulation wrapping	South boiler room
SACM-09a and b	06 Mar 02	1210	White paper pipe insulation wrapping	Upper level in southwest corner of building
SACM-10a and b	06 Mar 02	1155	9- by 9-inch gray floor tile	Office area (medical department) on south side of Plant 2
SACM-11a and b	06 Mar 02	1200	1 square foot green floor tile with mastic	Office area (medical department) on south side of Plant 2
SACM-12a and b	06 Mar 02	1215	Four-layer pipe insulation wrapping (white exterior with black, silver, and tan layers)	Upper level in southwest corner of building
SACM-13a and b	06 Mar 02	1315	9- by 9-inch tan floor tile	Corporate laboratory
SACM-14a and b	06 Mar 02	1320	Black lab bench countertop	Corporate laboratory
SACM-15a and b	06 Mar 02	1325	1 square foot deep pitted ceiling tile, white	Corporate laboratory

TABLE 6 (Continued)

SACM SAMPLING SUMMARY

Sample No.	Date Collected	Time Collected	Material Description	Sampling Location
SACM-16a and b	06 Mar 02	1330	1 square foot white pitted and pinholed ceiling tile	Corporate laboratory
SACM-17a and b	06 Mar 02	1350	Green boiler tank wrapping with insulation	North boiler room
SACM-18a and b	06 Mar 02	1355	Gray boiler tank wrapping with insulation	North boiler room
SACM-19a and b	06 Mar 02	1400	While and silver pipe insulation wrapping	North boiler room
SACM-20a and b	06 Mar 02	1410	Black pipe insulation wrapping	North boiler room

Note:

SACM = Suspected asbestos-containing material

3.8 INVENTORY

On 06 Mar 02, START conducted an inventory of material present in drums, totes, tanks, and miscellaneous other small containers located throughout Plant 2. The inventory was conducted by walking throughout Plant 2 and recording type of container, size, and labels in notebooks. These notes were later compiled into a database. Appendix B contains two printouts of the inventory from the database, one is organized by waste category and the other is organized by manufacturer.

The inventory revealed the following present at Plant 2: 152 bottles, 17 one-cubic-yard boxes, 4 air cylinders, 303 small containers (1 to 30 gallons), 505 55-gallon drums, 32 tanks (100 to 13,000 gallons), and 4 totes. Waste categories were determined based on hazard labels and waste material labels recorded during the inventory. If a container had a waste material label, then this label was used to determine the waste category and not any hazard labels that may have also been present on the container. The analytical results assisted in confirming that labels on the containers were correct. The following approximate quantities and waste categories were identified based on the inventory:

- 110 gallons of coolant
- 40 lead acid batteries
- 922 gallons of acid corrosives
- 739 gallons of basic corrosives
- 330 gallons of hydrofluoric acid (mixture with nitric acid)
- 5 pounds of ammonium thiocyanate
- 1,260 gallons of flammable liquids
- Mercury thermometers in 1 55-gallon drum and 1 5-gallon pail
- Jar of mercury (10 pounds)
- 2,740 gallons of chlorinated organics
- One 55-gallon drum of PCB ballasts
- 28 transformers containing PCB oil (approximately 220 gallons of oil each)
- 435 gallons of plating wastes
- One 35-gallon drum of radioactive material (includes 2 pounds of thorium nitrate, one ounce of uranyl nitrate, one static meter, and two dew pointers)
- 100 gallons of liquid and solid sulfides
- 220 gallons of chlorinated waste oil
- 75,710 gallons of waste oil
- 1,350 gallons of paint material

4.0 ANALYTICAL RESULTS

Sections 4.1 to 4.6 summarize analytical results for container and miscellaneous, wipe, air, soil and sediment, groundwater, and SACM samples, respectively. Analytical results were validated in accordance with U.S. EPA's "Contract Laboratory Program National Functional Guidelines for Organic Data Review" (U.S. EPA 1999c) and "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (U.S. EPA 1994). Appendix C contains the data validation report along with analytical data summary sheets.

4.1 CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS

Great Lakes Analytical (GLA) of Buffalo Grove, Illinois, analyzed container and miscellaneous samples for flash point, pH, PCBs, Resource Conservation and Recovery Act (RCRA) metals, VOCs, and total petroleum hydrocarbons (TPH). Tables 7A through 7F summarize characteristic parameters of and detected analytes for the container and miscellaneous samples collected from the chemical storage building, old die cast area, parts storage area, metal working area, grit blasting area, and new die cast area, respectively.

The hazardous waste characteristic of ignitability as defined in 40 CFR 261.21 is a liquid that has a flash point of less than 140 °F. Of the 40 samples analyzed for flash point, 16 (including duplicate samples) met the definition for ignitability (see outlined results in Table 7). These 16 samples were composed of oils and solvents. Nine of these 16 samples were collected from closed drums and containers. The other seven were located in a parts washer bin (W-20), a drain hole (W-33), oil drip pans underneath machinery (W-42, W-42D, W-43, and W-44), and an open drum (W-109).

The hazardous waste characteristic of corrosivity as defined in 40 CFR 261.22 is a material that has a pH of less than or equal to 2 or greater than or equal to 12.5. Of the eight samples analyzed for pH, one sample (W-13) had a pH (13.5) that met the definition of corrosivity (see outlined result in Table 7).

Most of the container and miscellaneous samples were analyzed for PCBs. Materials containing greater

than 50 ppm PCBs are regulated under the Toxic Substances Control Act (TSCA) in 40 CFR Part 761. Two samples, W-18 and W-111B, contained greater than 50 ppm PCBs. Sample No. W-18 was collected from a drain in the parts storage area, and sample No. W-111B consists of the oil layer collected in a cistern located outside the chip wringer room near the hopper.

Sixteen samples (including duplicate samples) were analyzed for RCRA metals. Significant concentrations of chromium were detected in samples No. W-14 (21,300 milligrams per kilogram [mg/kg]), W-30 (143 mg/kg), W-101 (410 mg/kg), and W-102 (4,530 mg/kg). Sample No. W-14 was collected from a cubic yard box labeled as wastewater treatment sludge in the chemical storage building, W-30 is of a composite of floor solids under machines in the metal working area, W-101 is a composite of floor solids in the wastewater treatment room, and W-102 is a composite of solid material present in troughs in the basement of the wastewater treatment room, a former chromium plating area. Sample No. W-102 also contained total cyanide at 20.2 mg/kg. Barium was detected at 1,000 mg/kg in sample No. W-101 and at 829 mg/kg in sample No. W-102. In sample No. W-102, cadmium was detected at 407 mg/kg and silver at 43.9 mg/kg. Other metals detected in the samples at less significant concentrations include arsenic at concentrations as high as 83.6 mg/kg, lead at concentrations as high as 54.9 mg/kg, and mercury at concentrations as high as 0.326 mg/kg.

VOC analysis was performed on 28 of the container and miscellaneous samples (including duplicate samples). Many samples containing oil yielded minor detections of several VOCs. Significant sample results include the following: sample No. W-09 contained 26.5 percent 1,1,1-trichloroethane; sample No. W-21 contained 90.6 percent 2-butanone (a synonym for methyl ethyl ketone); sample No. W-52 contained 158 mg/kg 2-butanone, 798 mg/kg ethylbenzene, 520 mg/kg 4-methyl-2-pentanone, 148 mg/kg toluene, and 3,800 mg/kg total xylenes; and sample No. W-12 contained 6,040 milligrams per liter (mg/L) 4-methyl-2-pentanone.

TPH analysis was performed on 34 of the container and miscellaneous samples (including duplicate samples). Gasoline and diesel were the petroleum parameters analyzed for. Results confirm that several of the samples were oil as suspected. Samples containing over 10 percent TPH (greater than 100,000 mg/L or mg/kg gasoline plus diesel) include the following: W-01, W-10, W-15, W-26, and W-36. In addition, 28 of the samples contained concentrations of TPHs between 1,000 and 100,000 mg/kg or mg/L.

TABLE 7A

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE CHEMICAL STORAGE BUILDING

Laboratory Analyte	Sample No.							
	W-01	W-02	W-05	W-06	W-09	W-10	W-10D	W-11
Location	Drum	Drum	Drum	Drum	Drum	Drum	Drum	Drum
Characteristic Parameters								
Flashpoint (°F)	121	89.7	NA	98.7	86.7	132	126	NA
pH (pH units)	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg unless otherwise indicated)								
Aroclor-1248	7.65 U	0.00323 U mg/L	NA	21.6	NA	7.73 U	7.50 U	7.50 U
RCRA Metals (mg/kg)								
Cadmium	NA	NA	NA	0.0289	NA	NA	NA	NA
Chromium	NA	NA	NA	0.103	NA	NA	NA	NA
Lead	NA	NA	NA	0.168	NA	NA	NA	NA
VOCs (mg/kg unless otherwise indicated)								
Acetone	250 U	1.25 U	0.527 mg/L	4.94	12,500 U	50 U	50 U	1.25 UJ
Benzene	50 U	0.250 U	0.010 U mg/L	0.250 U	2,500 U	16.5	16.9	0.250 UJ
2-Butanone	100 U	0.500 U	0.050 U mg/L	0.720	5,000 U	20 U	20 U	0.614 J
Ethylbenzene	50 U	0.250 U	0.010 U mg/L	0.250 U	2,500 U	50.9	51.4	0.250 UJ
4-Methyl-2-pentanone	100 U	0.500 U	0.050 U mg/L	0.500 U	5,000 U	20 U	20 U	0.500 UJ
Tetrachloroethene	143	0.250 U	0.010 U mg/L	0.250 U	2,500 U	10.1	10.8	0.250 UJ
Toluene	50 U	0.250 U	0.010 U mg/L	0.250 U	2,500 U	156	153	4.30 J
1,1,1-Trichloroethane	50 U	0.250 U	0.0296 mg/L	0.250 U	265,000	564	600	1.01 J
Total xylenes	100 U	0.500 U	0.020U mg/L	0.500 U	5,000 U	285	286	0.858 J
TPH (mg/kg unless otherwise indicated)								
Gasoline	752	NA	NA	NA	NA	28,900	31,300	40.3
Diesel	116,000 J mg/L	NA	NA	NA	NA	295,000 J mg/L	268,000 J mg/L	33,000 J mg/L

TABLE 7A (Continued)

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE CHEMICAL STORAGE BUILDING

	Sample No.					
Laboratory Analyte	**W-12**	**W-13**	**W-14**	**W-15**	**W-16**	**W-17B**
Location	Drum	Drum	Cubic yard box	Drum	Drum	Drum
Characteristic Parameters						
Flashpoint (°F)	NA	NA	NA	NA	NA	159
pH (pH units)	NA	13.4	NA	NA	NA	11.5
PCBs (mg/kg unless otherwise indicated)						
Aroclor-1248	NA	NA	0.0519	NA	8.82 U	0.0182 U mg/L
RCRA Metals (mg/kg)						
Arsenic	NA	NA	5.21	NA	NA	NA
Barium	NA	NA	141	NA	NA	NA
Cadmium	NA	NA	11.8	NA	NA	NA
Chromium	NA	NA	21,300	NA	NA	NA
Lead	NA	NA	23.3	NA	NA	NA
Mercury	NA	NA	0.150 J	NA	NA	NA
VOCs (mg/kg unless otherwise indicated)						
Acetone	100 U mg/L	NA	NA	NA	1.25 U	243 mg/L
2-Butanone	100 U mg/L	NA	NA	NA	0.500 U	50 U mg/L
Ethylbenzene	30.7 mg/L	NA	NA	NA	0.250 U	10 U mg/L
4-Methyl-2-pentanone	6,040 mg/L	NA	NA	NA	0.500 U	50 U mg/L
Toluene	109 mg/L	NA	NA	NA	0.250 U	10 U mg/L
1,1,1-Trichloroehtane	114 mg/L	NA	NA	NA	0.250 U	10 U mg/L
Total Xylenes	158 mg/L	NA	NA	NA	0.684	20 U mg/L
TPH (mg/L)						
Gasoline	NA	NA	NA	217,000	NA	NA
Diesel	NA	NA	NA	930,000 J	NA	NA

Notes:

mg/kg = Milligram per kilogram
mg/L = Milligram per liter
NA = Not analyzed

TABLE 7A (Continued)

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE CHEMICAL STORAGE BUILDING

PCB	=	Polychlorinated biphenyl
RCRA	=	Resource Conservation and Recovery Act
TPH	=	Total petroleum hydrocarbons
VOC	=	Volatile organic compound

Qualifier definitions:

J	=	The analyte was detected. The reported numerical value is considered estimated for quality control reasons.
U	=	The analyte was not detected in the sample. The reported numerical value is the sample quantitation limit.

TABLE 7B

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE OLD DIE CAST AREA

	Sample No.		
Laboratory Analyte	**W-103**	**W-104**	**W-107**
Location	Pipe chase	Pipe chase	Pipe chase
PCBs (mg/L)			
Aroclor-1248	0.328	0.0372	5.27

Notes:

mg/L = Milligram per liter
PCB = Polychlorinated biphenyl

TABLE 7C

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE PARTS STORAGE AREA

	Sample No.		
Laboratory Analyte	**W-18**	**W-19**	**W-20**
Location	Drain	Drum	Parts washer bin
Characteristic Parameters			
Flashpoint (°F)	> 220	NA	101
PCBs (mg/kg unless otherwise indicated)			
Aroclor-1248	85.6	7.98 U	7.50 U
TPH (mg/kg unless otherwise indicated)			
Gasoline	29.9	NA	NA
Diesel	3,390 J	NA	NA

Notes:

mg/kg = Milligram per kilogram
NA = Not analyzed
PCB = Polychlorinated biphenyl
TPH = Total petroleum hydrocarbons

Qualifier definitions:

J = The analyte was detected. The reported numerical value is considered estimated for quality control reasons.
U = The analyte was not detected in the sample. The reported numerical value is the sample quantitation limit.

TABLE 7D

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE METAL WORKING AREA

	Sample No.						
Laboratory Analyte	**W-21**	**W-22**	**W-23**	**W-24**	**W-25**	**W-26**	**W-27**
Location	Drum	Pit	Floor under machines	Floor under machines	Floor under machines	Drum	Floor under machines
Characteristic Parameters							
Flashpoint (°F)	NA	> 220	> 220	> 220	> 220	NA	> 220
pH (pH units)	NA	NA	NA	NA	NA	6.87	NA
PCBs (mg/kg unless otherwise indicated)							
Aroclor-1248	NA	0.124 U	1.21	0.176 U	0.301	7.65 U	0.559
RCRA Metals (mg/kg)							
Arsenic	NA	2.50 U	NA	NA	NA	NA	NA
Barium	NA	25.0 U	NA	NA	NA	NA	NA
Cadmium	NA	0.500 U	NA	NA	NA	NA	NA
Chromium	NA	72.5	NA	NA	NA	NA	NA
Lead	NA	33.4	NA	NA	NA	NA	NA
Mercury	NA	0.105 J	NA	NA	NA	NA	NA
VOCs (mg/kg unless otherwise indicated)							
2-Butanone	906,000	NA	NA	NA	NA	NA	NA
TPH (mg/kg unless otherwise indicated)							
Gasoline	NA	10 U	5.45	5.00 U	48.7	5.00 U	5.00 U
Diesel	NA	8,490	2,600	2,780	13,400	183,000 mg/L	2,610

TABLE 7D (Continued)

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE METAL WORKING AREA

Laboratory Analyte	Sample No.							
	W-28	W-28D	W-29	W-30	W-31	W-32	W-33	W-34
Location	Floor under machines	Floor under machines	Floor	Floor under machines	Under grate in floor	Floor under machines	Drain	Floor under machines
Characteristic Parameters								
Flashpoint (°F)	> 220	> 220	> 220	> 220	NA	> 220	121	> 220
pH (pH units)	NA	NA	9.48	NA	NA	NA	NA	NA
PCBs (mg/kg unless otherwise indicated)								
Aroclor-1248	1.04	0.564	1.50	0.025 U	0.00208 mg/L	1.02	23.7	0.025 U
RCRA Metals (mg/kg)								
Arsenic	NA	NA	NA	2.50 U	NA	83.6	NA	20.9
Barium	NA	NA	NA	52.6	NA	25.0 U	NA	25.0 U
Cadmium	NA	NA	NA	8.72	NA	0.500 U	NA	0.500 U
Chromium	NA	NA	NA	143	NA	11.4	NA	5.19
Lead	NA	NA	NA	23.2	NA	25.0	NA	9.99
Silver	NA	NA	NA	4.41 J	NA	2.50 R	NA	2.50 R
Mercury	NA	NA	NA	0.0817 J	NA	0.0400 R	NA	0.0438 J
VOCs (mg/kg unless otherwise indicated)								
Acetone	NA	NA	NA	NA	1.32 mg/L	NA	NA	NA
2-Butanone	NA	NA	NA	NA	0.154 mg/L	NA	NA	NA
Chloromethane	NA	NA	NA	NA	0.0778 mg/L	NA	NA	NA
TPH (mg/kg unless otherwise indicated)								
Gasoline	5.00 U	5.00 U	412	37.0	NA	35.5	19.3	5.00 U
Diesel	2,180	1,820	873	7,840	NA	8,620	56,300 mg/L	10,600

TABLE 7D (Continued)

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE METAL WORKING AREA

	Sample No.							
Laboratory Analyte	**W-35**	**W-52**	**W-52D**	**W-100**	**W-101**	**W-102**	**W-105**	**W-106**
Location	Floor under machines	Bucket in spray paint booth room	Bucket in spray paint booth room	Floor in chip wringer room	Floor in wastewater treatment room	Floor in basement of wastewater treatment room	Manhole in chip wringer room	Cistern in chip wringer room
Characteristic Parameters								
Flashpoint (°F)	> 220	83.4	83.2	> 220	NA	NA	NA	NA
pH (pH units)	NA	NA	NA	NA	9.74	9.53	NA	NA
Cyanide, total (mg/kg)	NA	NA	NA	NA	1.73	20.2	NA	NA
PCBs (mg/kg unless otherwise indicated)								
Aroclor-1248	14.2	NA	NA	1.11	3.33	2.69	0.0949 mg/L	0.00239 mg/L
RCRA Metals (mg/kg)								
Arsenic	NA	0.944	0.981	NA	2.50 U	2.50 U	NA	NA
Barium	NA	64.1	77.7	NA	1,000	829	NA	NA
Cadmium	NA	0.0472 U	0.0490 U	NA	25.0	407	NA	NA
Chromium	NA	0.0472 U	0.0490 U	NA	410	4,530	NA	NA
Lead	NA	0.169	0.346	NA	33.5	54.9	NA	NA
Selenium	NA	3.96 J	4.29 J	NA	2.50 U	2.50 U	NA	NA
Silver	NA	0.236 U	0.245 U	NA	2.71 J	43.9 J	NA	NA
Mercury	NA	0.00106	0.000889	NA	0.120 J	0.326 J	NA	NA
VOCs (mg/kg unless otherwise indicated)								
Acetone	NA	250 U	250 U	0.216	0.0250 U	0.737	0.010 U mg/L	0.375 mg/L
2-Butanone	NA	158	100 U	0.382	0.010 U	0.0269	0.010 U mg/L	0.453 mg/L
Chloromethane	NA	50 U	50 U	0.00613	0.0050 U	0.0050 U	0.002 U mg/L	0.020 U mg/L

TABLE 7D (Continued)

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE METAL WORKING AREA

	Sample No.							
Laboratory Analyte	**W-35**	**W-52**	**W-52D**	**W-100**	**W-101**	**W-102**	**W-105**	**W-106**
1,1-Dichloroethene	NA	50 U	50 U	0.0050 U	0.0050 U	0.0050 U	0.002 U mg/L	0.0296 mg/L
cis-1,2-Dichloroethene	NA	50 U	50 U	0.0050 U	0.0050 U	0.0050 U	0.002 U mg/L	19.6 mg/L
Ethylbenzene	NA	798	904	0.0050 U	0.0050 U	0.0050 U	0.002 U mg/L	0.020 U mg/L
2-Hexanone	NA	100 U	100 U	0.101	0.010 U	0.010 U	0.010 U mg/L	0.100 U mg/L
Methylene Chloride	NA	50 U	50 U	0.0276	0.0242	0.165	0.002 U mg/L	0.020 U mg/L
4-Methyl-2-pentanone	NA	520	367	0.0215	0.010 U	0.010 U	0.010 U mg/L	0.100 U mg/L
Toluene	NA	148	173	0.0050 U	0.0050 U	0.0050 U	0.002 U mg/L	0.020 U mg
1,1,1-Trichloroethane	NA	50 U	50 U	0.00509	0.0109	0.00502	0.002 U mg/L	0.020 U mg/L
Trichloroethene	NA	50 U	50 U	0.0050 U	0.0050 U	0.0050 U	0.002 U mg/L	0.0655 mg/L
Total xylenes	NA	3,800	4,390	0.010 U	0.010 U	0.010 U	0.004 U mg/L	0.040 U mg/L
TPH (mg/kg unless otherwise indicated)								
Gasoline	7.3	NA	NA	5.00 U	NA	NA	NA	NA
Diesel	4,460	NA	NA	6,620 J	NA	NA	NA	NA

TABLE 7D (Continued)

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE METAL WORKING AREA

Laboratory Analyte	Sample No.	
	W-111A	W-111B
Location	Cistern outside chip wringer room	Cistern outside chip wringer room
PCBs (mg/kg unless otherwise indicated)		
PCB 1248	0.163 mg/L	112
VOCs (mg/kg unless otherwise indicated)		
2-Butanone	0.010 U mg/L	1.10
cis-1,2-Dichloroethene	0.00574 mg/L	0.250 U

Notes:

mg/kg = Milligram per kilogram
mg/L = Milligram per liter
NA = Not analyzed
PCB = Polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
TPH = Total petroleum hydrocarbons
VOC = Volatile organic compound

Qualifier definitions:

J = The analyte was detected. The reported numerical value is considered estimated for quality control reasons.
U = The analyte was not detected in the sample. The numerical value is the sample quantitation limit.

TABLE 7E

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE GRIT BLASTING AREA

	Sample No.	
Laboratory Analyte	**W-36**	**W-37A**
Location	Containment berm of soluble oil tank	Floor near grit blasting machine
Characteristic Parameters		
Flashpoint (°F)	146	> 220
PCBs (mg/kg)		
Aroclor-1248	7.65 U	0.284 U
RCRA Metals (mg/kg)		
Cadmium	NA	0.591
Chromium	NA	61.3
Lead	NA	31.7
TPH (mg/L)		
Gasoline	5.00 U	NA
Diesel	135,000 mg/L	NA

Notes:

mg/kg = Milligram per kilogram
mg/L = Milligram per liter
NA = Not analyzed
PCB = Polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
TPH = Total petroleum hydrocarbons

Qualifier definition:

U = The analyte was not detected in the sample. The numerical value is the sample quantitation limit.

TABLE 7F

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE NEW DIE CAST AREA

Laboratory Analyte	Sample No.							
	W-37B	W-38	W-39	W-40	W-41	W-42	W-42D	W-43
Location	Floor under machines	Floor under machines	Floor under machines	Floor under machines	Drainage sump	Drip pan	Drip pan	Drip pan
Characteristic Parameters								
Flashpoint (°F)	> 220	> 220	> 220	> 220	141	116	131	131
PCBs (mg/kg)								
Aroclor-1248	0.706	7.35 U	7.58 U	0.160 U	7.28 U	41.9	45.6	17.6
RCRA Metals (mg/kg)								
Barium	NA	NA	NA	NA	3.43	8.65	8.13	8.03
Cadmium	NA	NA	NA	NA	0.0363	0.00936 U	0.0561	0.0238
Chromium	NA	NA	NA	NA	0.0562	0.00936 U	0.00921 U	0.0871
.d	NA	NA	NA	NA	0.0987	0.0187 U	0.135	0.103
Mercury	NA	NA	NA	NA	0.00152	0.00179	0.00475	0.000894 U
TPH (mg/kg unless otherwise indicated)								
Gasoline	5.00 U	15.6	9.45	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Diesel	5,720	2,780	4,570	1,280	15,400 mg/L	20,900 mg/L	21,700 mg/L	20,100 mg/L

TABLE 7F (Continued)

SUMMARY OF CONTAINER AND MISCELLANEOUS SAMPLE ANALYTICAL RESULTS FOR SAMPLES COLLECTED FROM THE NEW DIE CAST AREA

Laboratory Analyte	Sample No.						
	W-44	W-45	W-51	W-108	W-109 (top)	W-109 (bottom)	W-110
Location	Drip pan	Floor near AST area	Red tote near AST area	AST	Open drum near AST	Open drum near AST	AST
Characteristic Parameters							
Flashpoint (°F)	126	> 220	136	141	111	NA	NA
pH (pH units)	NA	NA	NA	NA	NA	11.9	9.08
PCBs (mg/kg)							
Aroclor-1248	9.27	0.254 U	7.81 U	7.50 U	7.08 U	NA	0.00417 U mg/L
RCRA Metals (mg/kg)							
Barium	10.4	NA	NA	NA	NA	NA	NA
Cadmium	0.161	NA	NA	NA	NA	NA	NA
Chromium	0.156	NA	NA	NA	NA	NA	NA
Lead	0.169	NA	NA	NA	NA	NA	NA
Mercury	0.000962 U	NA	NA	NA	NA	NA	NA
VOCs (mg/kg unless otherwise indicated)							
2-Butanone	NA	NA	NA	NA	1.27	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	0.290	NA	NA
TPH (mg/kg unless otherwise indicated)							
Gasoline	5.00 U	5.00 U	11.8	5.61	NA	NA	NA
Diesel	20,000 mg/L	6,780	19,400 mg/L	17,400 mg/L	NA	NA	NA

Notes:

AST = Aboveground storage tank
mg/kg = Milligram per kilogram
mg/L = Milligram per liter
NA = Not analyzed
PCB = Polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
TPH = Total petroleum hydrocarbons
VOC = Volatile organic compound

Qualifier definition:

U = The analyte was not detected in the sample. The numerical value is the sample quantitation limit.

4.2 WIPE SAMPLE ANALYTICAL RESULTS

GLA of Buffalo Grove, Illinois, analyzed a total of 70 wipe samples. Table 8 summarizes wipe sample analytical results. All wipe samples except three contained detectable concentrations of PCBs.

In 40 CFR Parts 761.61 and 761.79, the PCB cleanup standards for concrete floors (porous surfaces) is less than or equal to 10 micrograms (μg) PCBs per 100 cm^2. For nonporous surfaces in high occupancy areas, the cleanup standard is less than or equal to 10 μg/100 cm^2. For nonporous surfaces in low occupancy areas, the cleanup standard is less than or equal to 100 μg/100 cm^2. Thirty-seven of the wipe samples contained greater than 10 μg/100 cm^2 of the PCB Aroclor-1248. Of these 37 samples, six contained greater than 100 μg/100 cm^2. All wipe sample results greater than 10 μg/100 cm^2 are outlined in Table 8.

Twenty-six of the wipe samples with PCB results greater than 10 μg/100 cm^2 are of concrete flooring. The other 11 samples with PCB results greater than 10 μg/100 cm^2 were collected from a blue tank in the parts storage area, equipment in the chip wringer room, and machinery in the metal working area. None of the wipe samples collected in the office areas contained PCB concentrations greater than 10 μg/100 cm^2.

TABLE 8

SUMMARY OF WIPE SAMPLE ANALYTICAL RESULTS

Sample Number	Aroclor-1248 (µg/100 cm²)	Type of Surface		
		Floor	Equipment[a]	Office Furniture
WIPE-01	6.54	x		
WIPE-02	3.19	x		
WIPE-03	3.95	x		
WIPE-04	3.44	x		
WIPE-05	1.82	x		
WIPE-06	1,130	x		
WIPE-07	111	x		
WIPE-08	46.2	x		
WIPE-09	567	x		
WIPE-10	9,140	x		
WIPE-11	87.5	x		
WIPE-12	92.9	x		
WIPE-13	1.90	x		
WIPE-14	3.08			x
WIPE-15	2.03			x
WIPE-16	4.27	x		
WIPE-17	46.3	x		
WIPE-18	1.81	x		
WIPE-19	2.51			x
WIPE-20	19.1	x		

TABLE 8 (Continued)

SUMMARY OF WIPE SAMPLE ANALYTICAL RESULTS

Sample Number	Aroclor-1248 (µg/100 cm²)	Type of Surface		
		Floor	Equipment[a]	Office Furniture
WIPE-21	82.0	x		
WIPE-22	361	x		
WIPE-23	134	x		
WIPE-24	86.7	x		
WIPE-25	22.8		x	
WIPE-26	1,190	x		
WIPE-27	22.1	x		
WIPE-28	74.5	x		
WIPE-29	3.40 J	x		
WIPE-30	12.1		x	
WIPE-31	11.1		x	
WIPE-32	16.7		x	
WIPE-33	65.0	x		
WIPE-34	18.1		x	
WIPE-35	12.7	x		
WIPE-36	5.70		x	
WIPE-37	38.8	x		
WIPE-38	19.2		x	
WIPE-39	21.8	x		
WIPE-40	10.3		x	

TABLE 8 (Continued)

SUMMARY OF WIPE SAMPLE ANALYTICAL RESULTS

Sample Number	Aroclor-1248 (µg/100 cm²)	Type of Surface		
		Floor	Equipment[a]	Office Furniture
WIPE-41	17.8	x		
WIPE-42	16.2		x	
WIPE-43	9.43	x		
WIPE-44	23.1	x		
WIPE-45	36.9		x	
WIPE-46	29.0	x		
WIPE-47	25.3		x	
WIPE-48	16.5	x		
WIPE-49	11.3		x	
WIPE-50	18.1	x		
WIPE-51	0.753	x		
WIPE-52	3.99		x	
WIPE-53	7.84	x		
WIPE-54	1.57		x	
WIPE-55	0.500 U	x		
WIPE-56	2.81		x	
WIPE-57	1.96		x	
WIPE-58	1.83	x		
WIPE-59	2.57		x	
WIPE-60	4.52	x		

TABLE 8 (Continued)

SUMMARY OF WIPE SAMPLE ANALYTICAL RESULTS

Sample Number	Aroclor-1248 (µg/100 cm²)	Type of Surface		
		Floor	Equipment[a]	Office Furniture
WIPE-61	6.27	x		
WIPE-62	0.500 U	x		
WIPE-63	9.60	x		
WIPE-64	0.500 U		x	
WIPE-65	1.89	x		
WIPE-66	2.38		x	
WIPE-67	7.54	x		
WIPE-68	4.13	x		
WIPE-69	3.04	x		
WIPE-70	10.6	x		

Notes:

µg/100 cm² = Microgram per 100 centimeters squared
PCB = Polychlorinated biphenyl

Qualifier Definitions:

J = The analyte was detected. The reported numerical value is estimated for quality control reasons.

U = The analyte was not detected in the sample. The numerical value is the sample quantitation limit.

[a] Equipment includes tanks and piping.

4.3 AIR SAMPLE ANALYTICAL RESULTS

Data Chem Laboratories, Inc., of Cincinnati, Ohio, analyzed nine air samples (plus one blank sample) for PCBs by U.S. EPA Method TO-10A (U.S. EPA 1999b) and six air samples for VOCs by U.S. EPA Method TO-14A (U.S. EPA 1999a). Tables 9 and 10 summarize air sample results for the PCB and VOC analyses, respectively. Aroclor-1242 was detected in all samples except samples No. AIR-13 and AIR-14, which were both collected from the east end of the building in the new die cast area. The National Institute for Occupational and Safety and Health (NIOSH) states that the time-weighted average (TWA) for exposure to Aroclor-1242 is 1 microgram per cubic meter. The NIOSH TWA is a recommended exposure limit for up to a 10-hour work day in a 40-hour work week (NIOSH 1994). Two samples, AIR-03 and AIR- 10, exceeded the NIOSH TWA. Sample No. AIR -03 was collected from the west end of Plant 2 in an office area, and sample No. AIR-10 was collected from the western edge of the metal working area.

Several VOCs were detected in the air samples; however, none of the VOC concentrations exceeded the NIOSH TWA limits. VOCs detected in the samples included cis-1,2-dichloroethene; methylene chloride; 1,1,1-trichloroethane; trichloroethene; toluene;; ethylbenzene; m,p-xylenes; and o-xylene.

TABLE 9

SUMMARY OF PCB AIR ANALYTICAL RESULTS

Sample No.	Aroclor-1242	
	µg/m³	ppbv
AIR-02	0.54 J	0.05 J
AIR-03	1.7 J	0.16 J
AIR-04	0.21J	0.02 J
AIR-06	0.40 J	0.04 J
AIR-08	0.90 J	0.08 J
AIR-10	1.2 J	0.11 J
AIR-12	0.61 J	0.06 J
AIR-13	0.25 U	0.023 U
AIR-14	0.25 U	0.023 U
AIR-BLK-02	0.25 U	0.023 U

Notes:

Outlined results exceeded the NIOSH TWA exposure limit of 1 µg/m³ (NIOSH 1994).

µg/m³	=	Microgram per cubic meter cubed
ND	=	Not detected
NIOSH	=	National Institute for Occupational Health and Safety
PCB	=	Polychlorintated biphenyl
ppbv	=	Part per billion by volume
TWA	=	Time-weighted average

Qualifier definitions:

J	=	The compound was detected. The reported numerical value is considered to be estimated for quality control reasons.
U	=	The analyte was analyzed for but not detected in the sample. The associated numerical value is the sample detection limit.

TABLE 10

SUMMARY OF VOC AIR SAMPLE ANALYTICAL RESULTS

Laboratory Analyte	Sample No.												NIOSH TWA Exposure Limits (ppb)
	AIR-01		AIR-05		AIR-07		AIR-09		AIR-11		AIR-BLK-01		
	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	
cis-1,2-Dichloroethene	0.26 U	1.04 U	1.8	7.18	0.32 J	1.28 J	0.38 J	1.52 J	0.54 J	2.15 J	0.26 U	1.04 U	200,000
Methylene chloride	0.93 J	3.28 J	0.25 J	0.88 J	21	74.13	0.33 J	1.16 J	0.36 J	1.27 J	0.23 U	0.81 U	None
1,1,1-Trichloroethane	29	160.37	0.28 J	1.55 J	0.32 J	1.77 J	6.2	34.29	1.8	9.95	0.22 U	1.22 U	None
Carbon tetrachloride	0.24 J	1.54 J	0.24 U	1.54 U	0.24 U	1.54 U	0.24 U	1.54 U	0.24 U	1.54 U	0.24 U	1.54 U	2,000
Trichloroethene	0.18 U	0.99 U	0.98 J	5.42 J	0.59 J	3.26 J	0.90 J	4.98 J	3.3	18.25	0.18 U	0.99 U	25,000
Toluene	2.2 U	8.43 U	1.0 U	3.83 U	20	76.6	1.0 U	3.83 U	1.9 U	7.28 U	0.87 J	3.33 J	100 ,000
Ethylbenzene	0.31 J	1.36 J	0.25 U	1.1 U	1.7	7.48	0.25 U	1.1 U	0.25 U	1.1 U	0.25 U	1.1 U	100,000
m,p-Xylenes	1.2	5.28	0.53 U	2.33 U	5.9	25.96	0.53 U	2.33 U	0.53 U	2.33 U	0.53 U	2.33 U	100,000
o-Xylene	0.37 J	1.63 J	0.27 U	1.19 U	1.4	6.16	0.27 U	1.19 U	0.27 U	1.19 U	0.27 U	1.19 U	100,000
1,2,4-Trimethylbenzene	0.69 J	3.44 J	0.28 U	1.40 U	0.94 J	4.69 J	0.29 J	1.45 J	0.28 U	1.40 U	0.28 U	1.40 U	25,000
Vinyl chloride	0.28 U	0.73 U	0.28 U	0.73 U	0.28 U	0.73 U	0.28 U	0.73 U	0.28 U	0.73 U	0.28 U	0.73 U	1,000

Notes:

µg/m³ = Microgram per meter cubed
NIOSH = National Institute for Occupational Safety and Health
ppbv = Part per billion by volume
TWA = Time-weighted average
VOC = Volatile organic compound

Qualifier definitions:

J = The compound was detected. The reported numerical value is considered to be estimated for quality control reasons.
U = The analyte was analyzed for but not detected in the sample. The associated numerical value is the sample detection limit.

4.4 SOIL AND SEDIMENT SAMPLE ANALYTICAL RESULTS

GLA of Buffalo Grove, Illinois, analyzed two soil samples (plus one duplicate soil sample) for PCBs and RCRA metals and three sediment samples for PCBs and VOCs. Tables 11 and 12 summarize the soil and sediment sample analytical results, respectively.

Materials containing greater than 50 ppm PCBs are regulated under TSCA in 40 CFR Part 761. The soil and sediment sample PCB results were all less than 50 ppm but sample results exceeded the U.S. EPA Region IX preliminary remediation goal (PRG) for PCBs of 1.0 mg/kg. U.S. EPA Region IX PRGs are risk-based guidelines for cleaning up contaminated sites. Soil sample No. SS-01 contained 697 mg/kg chromium, which exceeds the U.S. EPA Region IX PRG of 450 mg/kg (U.S. EPA 2000).

The National Oceanic and Atmospheric Administration (NOAA) has developed a set of "Screening Quick Reference Tables" (SQuiRT) that present screening concentrations for inorganic and organic contaminants in various environmental media, including sediment. SQuiRT was developed for internal use by the Coastal Protection and Restoration Division of NOAA. The division identifies potential impacts to coastal resources and habitats likely to be affected by hazardous waste sites. SQuiRT is helpful for evaluating potential risk from contaminated water, sediment, or soil (NOAA 1999). Sediment sample analytical results were compared to probable effects levels (PEL) in the SQuiRTs. PCB results exceeded the PELs. The detected VOCs have no PELs.

TABLE 11

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

Laboratory Analyte	Sample No. (mg/kg)			U.S. EPA Region IX PRGs[a] (mg/kg)
	SS-01	SS-02	SS-02D	
PCBs				
Aroclor-1248	18.4	2.99	26.6	1.0
RCRA Metals				
Cadmium	1.88	NA	NA	810
Chromium	697	NA	NA	450
Lead	40.3	NA	NA	750

Notes:

Outlined values exceed the U.S. EPA Region IX PRGs.

µg/kg	=	Microgram per kilogram
mg/kg	=	Milligram per kilogram
NA	=	Not analyzed
PCB	=	Polychlorinated biphenyl
PRG	=	Preliminary remediation goal
RCRA	=	Resource Conservation and Recovery Act
U.S. EPA	=	United States Environmental Protection Agency

[a] Values listed are for soil in industrial areas (U.S. EPA 2000).

TABLE 12

SUMMARY OF SEDIMENT SAMPLE ANALYTICAL RESULTS

Laboratory Analyte	Sample No. (mg/kg)			NOAA SQuiRT PEL (mg/kg)[a]
	SD-01	SD-02	SD-03	
PCBs				
Aroclor-1242	1.89	0.216 U	1.36	0.277
Aroclor-1248	0.025 U	8.53	0.025 U	0.277
VOCs				
Acetone	0.025 U	0.025 U	0.0436	None
2-Butanone	0.010 U	0.0115	0.0118	None
cis-1,2-Dichloroethene	0.0423	0.005 U	0.005 U	None

Notes:

Outlined results exceed NOAA SQuiRT PELs.

mg/kg = Milligram per kilogram
NOAA = National Oceanic and Atmospheric Administration
PCB = Polychlorinated biphenyl
PEL = Permissible exposure limit
SQuiRT = Screening Quick Reference Tables
VOC = Volatile organic compound

[a] PEL for freshwater sediments (NOAA 1999).

Qualifier definition:

U = The analyte was not detected in the sample. The numerical value is the sample quantitation limit.

4.5 GROUNDWATER SAMPLE ANALYTICAL RESULTS

GLA of Buffalo Grove, Illinois, analyzed four groundwater samples for PCBs and VOCs. Table 13 summarizes the groundwater sample analytical results. PCBs were not detected in any of the groundwater samples and are therefore not presented in Table 13. Detected VOC results for the groundwater samples were compared to the Illinois Environmental Protection Agency's (IEPA) Tiered Approach to Corrective Action Objectives (TACO) groundwater remediation objectives for Class II groundwater. Class II groundwater is defined as general resource groundwater (IEPA 1998). The IEPA TACO groundwater remediation objectives were exceeded for cis-1,2-dichloroethene in samples No. MW-06 and MW-09 and for vinyl chloride in samples No. MW-06, MW-09, and MW-12.

TABLE 13

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

Laboratory Analyte	Sample No. (µg/L)				TACO Tier I Groundwater Remediation Objective for Class II Groundwater (µg/L)
	MW-06	MW-09	MW-11	MW-12	
VOCs					
1,1-Dichloroethane	196	18.6	2.00 U	4.62	3,500
1,1-Dichloroethene	12.3	18.0	2.00 U	2.00 U	35
cis-1,2-Dichloroethene	6,930	2,080	2.00 U	47.6	200
trans-1,2-Dichloroethene	57.5	12.4	2.00 U	2.00 U	500
Vinyl chloride	146	383	2.00 U	90.3	10

Notes:

Outlined results exceed TACO Tier I remediation objectives for Class II groundwater (IEPA 1998).

µg/L = Microgram per liter
TACO = Tiered Approach to Corrective Action Objectives
VOC = Volatile organic compound

4.6 SACM SAMPLE ANALYTICAL RESULTS

R. Robinson Analytical Services, Inc., of Pensacola, Florida, determined the presence, type, and approximate percentage of asbestos in the SACM samples. The method used was polarized light microscopy and dispersion staining in accordance with the U.S. EPA's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (U.S. EPA 1982). Table 14 summarizes the SACM sample results.

Several materials contained at least 1 percent asbestos in Plant 2. Sample No. SACM-07, collected from homogenous wrapping around several molten metal unit pipes in the new dye cast area, consisted of approximately 4 linear feet of 30 percent chrysotile asbestos-containing material wrapping on each unit. In the south boiler room, the blue pipe insulation wrapping, sample No. SACM-08, contained 5 percent chrysotile. This material, which consists of several hundred linear feet of material, was already labeled as containing asbestos-containing material.

Two homogenous sampling areas in the north boiler room contained asbestos. Sample No. SACM-18 from the large gray boiler tank consisted of two types of asbestos: chrysotile and amosite. This tank was approximately 20 feet long with a diameter of 8 feet, for an approximate quantity of 500 square feet of ACM. In addition, sample No. SACM-20, consisting of black pipe insulation wrapping, was collected along the perimeter walls of the north boiler room. The sample tested positive as 5 percent chrysotile. The approximate quantity of this material is 150 linear feet. The tank insulation and pipe wrapping materials for samples No. SACM-18 and -20 may consist of several layers. For removal purposes, these materials are considered as one homogenous material; therefore, the entire homogenous area should be treated as asbestos-containing material.

Sample No. SACM-10, consisting of a 9- by 9-inch gray floor tile collected in the medical department and office area, consisted of 3 percent chrysotile asbestos. There is approximately 1,500 square feet of this tile present in the medical department and office area on the south side of Plant 2. Although sample No. SACM-11, consisting of green floor tile, contained a trace of asbestos, it is not considered asbestos because it was tested as having less than 1 percent asbestos.

TABLE 14

SUMMARY OF SACM SAMPLE ANALYTICAL RESULTS

Sample No.	Material Description	Asbestos Testing Result	Other Constituents
SACM-01a and b	1 foot square tan floor tile with mastic	Negative	100% nonfibrous
SACM-02a and b	2- by 4-foot white smooth ceiling tile	Negative	50% cellulose fibers 20% glass fibers 30% perlite
SACM-03a and b	White, fluffy thermal system insulation	Negative	90% glass fibers 10% nonfibrous
SACM-04a and b	White insulation board	Negative	90% glass fibers 10% nonfibrous
SACM-05a	Smelter unit insulation	Negative	90% glass fibers 10% nonfibrous
SACM-06a and b	Molten metal unit white insulation board	Negative	80% glass fibers 20% nonfibrous
SACM-07a	Molten metal unit pipe wrapping	Positive 30% Chrysotile	40% cellulose fibers 30% perlite
SACM-08a	Blue pipe insulation wrapping	Positive 5% Chrysotile	5% cellulose fibers 25% glass fibers 65% nonfibrous
SACM-09a and b	White paper pipe insulation wrapping	Negative	90% glass fibers 10% nonfibrous
SACM-10a	9- by 9-inch gray floor tile	Positive 3% Chrysotile	97% nonfibrous
SACM-11a and b	1 square foot green floor tile with mastic	Negative <1% Chrysotile	99% nonfibrous
SACM-12a and b	Four-layer pipe insulation wrapping (white exterior with black, silver, and tan layers)	Negative	Various cellulose fibers, glass fibers, plastic fibers, hair, and nonfibrous material
SACM-13a and b	9- by 9-inch tan floor tile	Negative	100% nonfibrous
SACM-14a and b	Black lab bench countertop	Negative	100% nonfibrous

TABLE 14 (Continued)

SUMMARY OF SACM SAMPLE ANALYTICAL RESULTS

Sample No.	Material Description	Asbestos Testing Result	Other Constituents
SACM-15a and b	1 square foot deep pitted ceiling tile, white	Negative	40% cellulose fibers 30% glass fibers 30% perlite
SACM-16a and b	1 square foot white pitted and pinholed ceiling tile	Negative	40% cellulose fibers 30% glass fibers 30% perlite
SACM-17a and b	Green boiler tank wrapping with insulation	Negative	Various cellulose fibers, glass fibers, and nonfibrous material
SACM-18b	Gray boiler tank wrapping with insulation	Positive 15% Chrysotile 20% Amosite	20% glass fibers 45% nonfibrous
SACM-19a and b	While and silver pipe insulation wrapping	Negative	60% cellulose fibers 30% glass fibers 10% nonfibrous material
SACM-20b	Black pipe insulation wrapping	Positive 5% Chrysotile	5% cellulose fibers 40% glass fibers 50% nonfibrous

Notes:

Outlined results tested positive for asbestos.

SACM = Suspect asbestos-containing material

5.0 SUMMARY

The OMC site is located near Lake Michigan and public beaches and in a sensitive ecosystem (U.S. EPA 2001a). Plant 2, the focus of this report, measures 1,036,000 square feet and contains drums, tanks, drains, and other miscellaneous containers of oil, flammable liquids, corrosive liquids, PCBs, mercury, chlorinated organics, hydrofluoric acid, radioactive material, and paint material. OMC has filed for bankruptcy and is seeking to abandon Plant 2. Abandoned materials in Plant 2 could be expected to be released as a result of extreme weather conditions, vandalism, and general deterioration of containers and building structures.

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USGS. 1993b. 7.5-Minute Series Topographic Map of Zion, Illinois-Wisconsin, Quadrangle.

APPENDIX A

PHOTOGRAPHIC LOG

Page

CONTAINER AND MISCELLANEOUS SAMPLES A-1

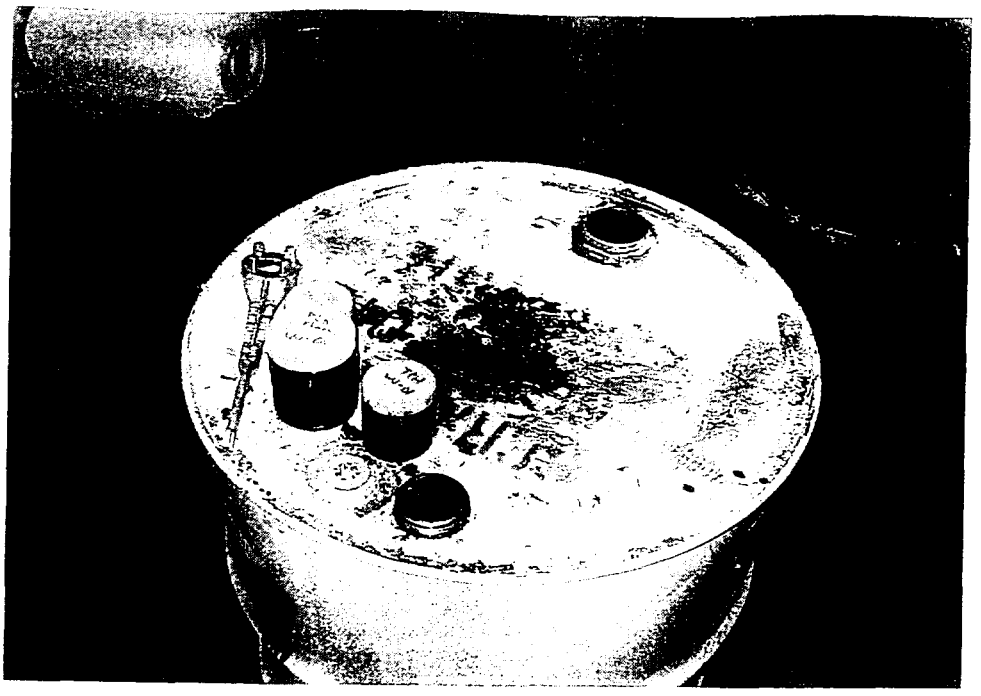
WIPE SAMPLES A-25

AIR SAMPLES A-60

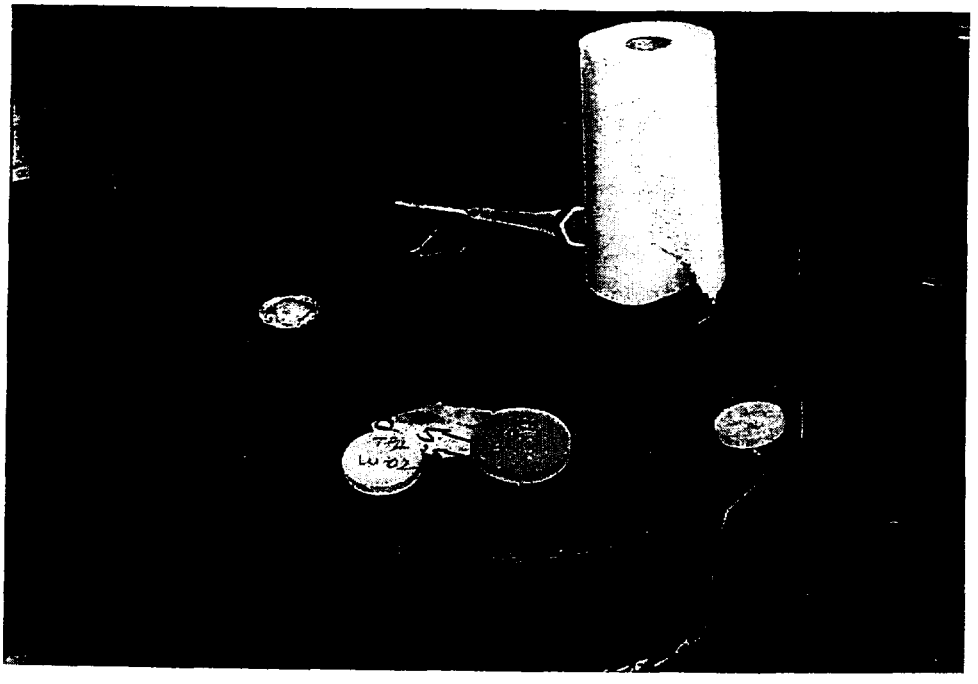
SOIL, SEDIMENT, AND GROUNDWATER SAMPLES A-67

SACM SAMPLES A-72

MISCELLANEOUS PHOTOGRAPHS A-80



Photograph No.: 1 **Orientation:** Not Applicable (NA)
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: Outboard Marine Corporation (OMC) site
Subject: Sample No. W-01 collected from a 55-gallon drum labeled "Scrap Oil" in the chemical storage building



Photograph No.: 2 **Orientation:** NA
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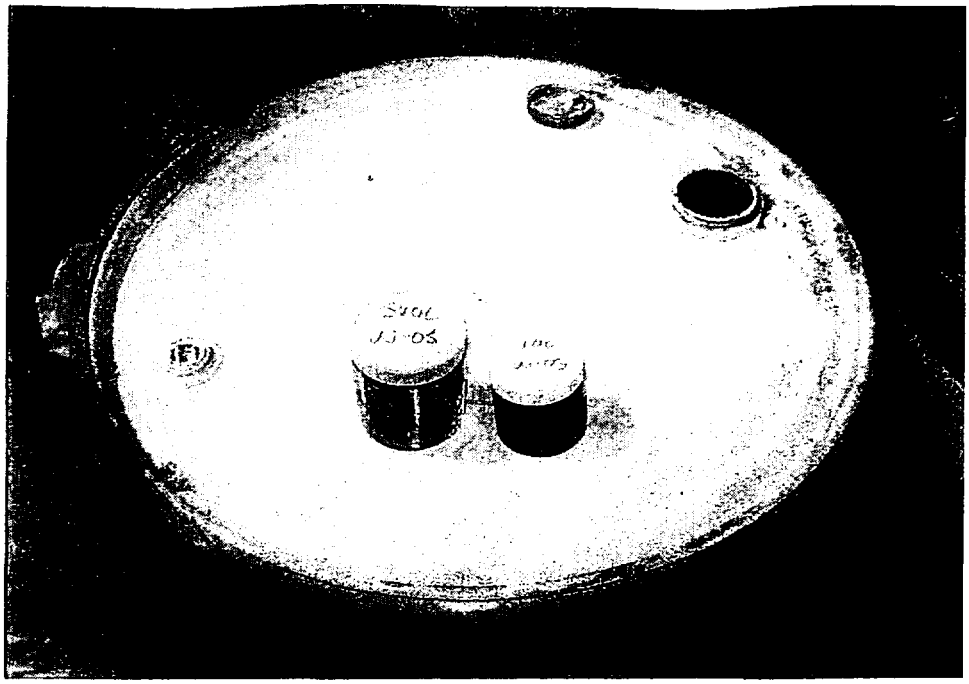
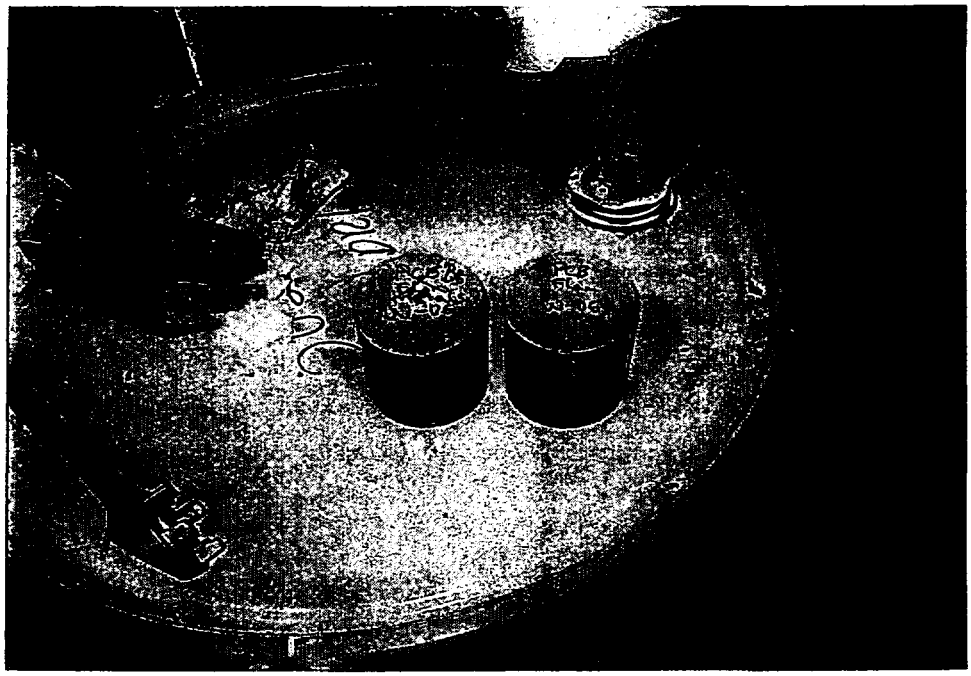
Location: OMC site
Subject: Sample No. W-02 collected from a 55-gallon drum labeled "Oil" in the chemical storage building

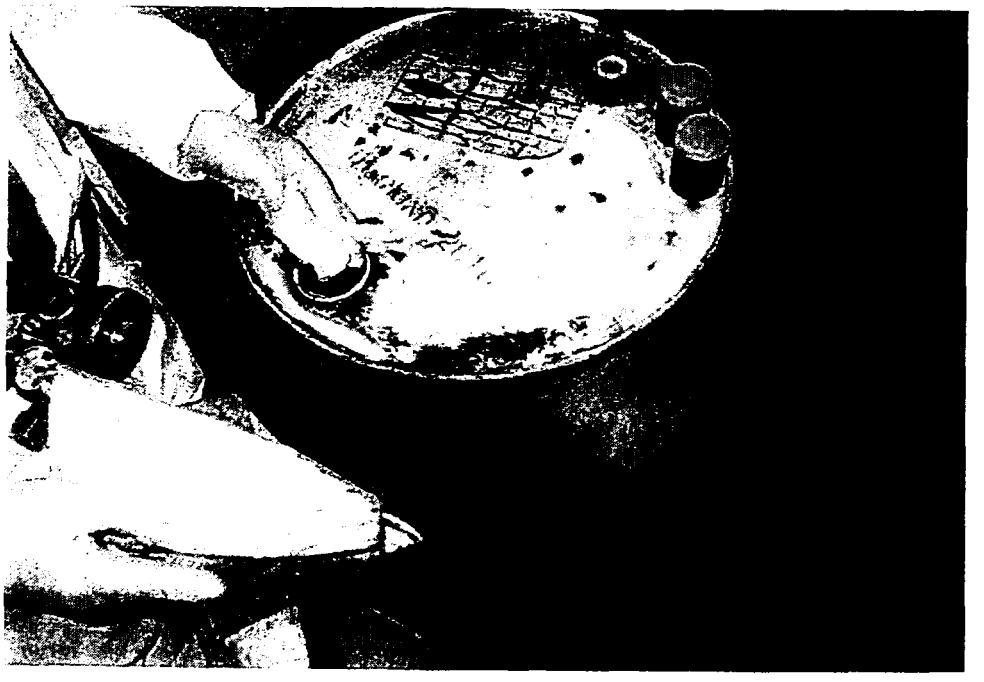


Photograph No.: 3 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-05 collected from a 55-gallon drum in the chemical storage building



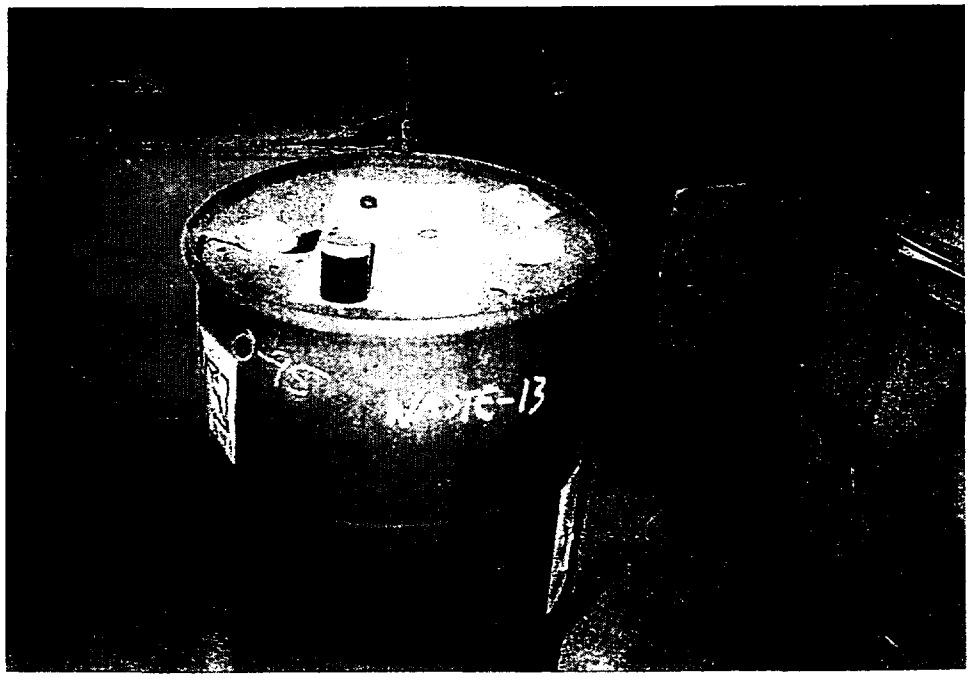
Photograph No.: 4 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-06 collected from a 55-gallon drum labeled "Oil Dri" in the chemical storage building

Photograph No.: 5 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-09 collected from 55-gallon drum labeled " Chem Solve 1,1,1-TCE" in the chemical storage building

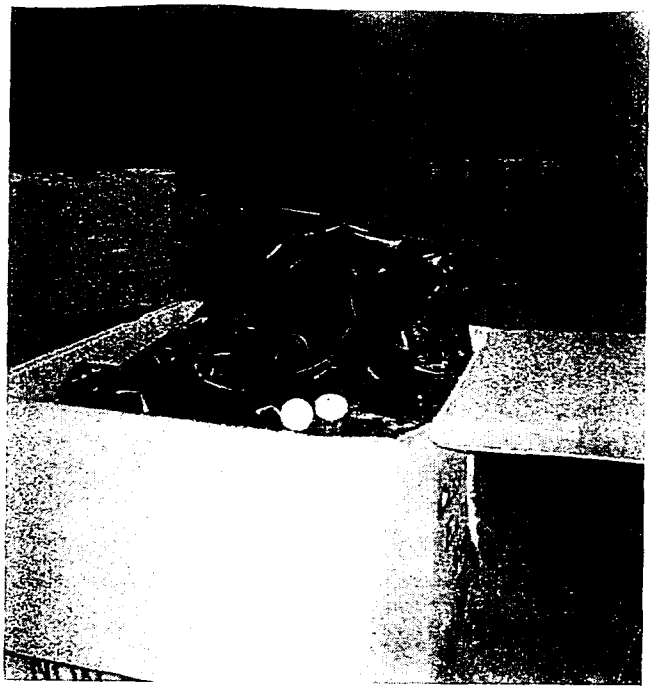


Photograph No.: 6 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-10 and duplicate sample No. W-10D collected from a 55-gallon drum in the chemical storage building

Photograph No.: 7 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-11 collected from a 55-gallon drum labeled "Hydraulic Oil" in the chemical storage building



Photograph No.: 8 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-13 collected from a 55-gallon plastic drum in the chemical storage building

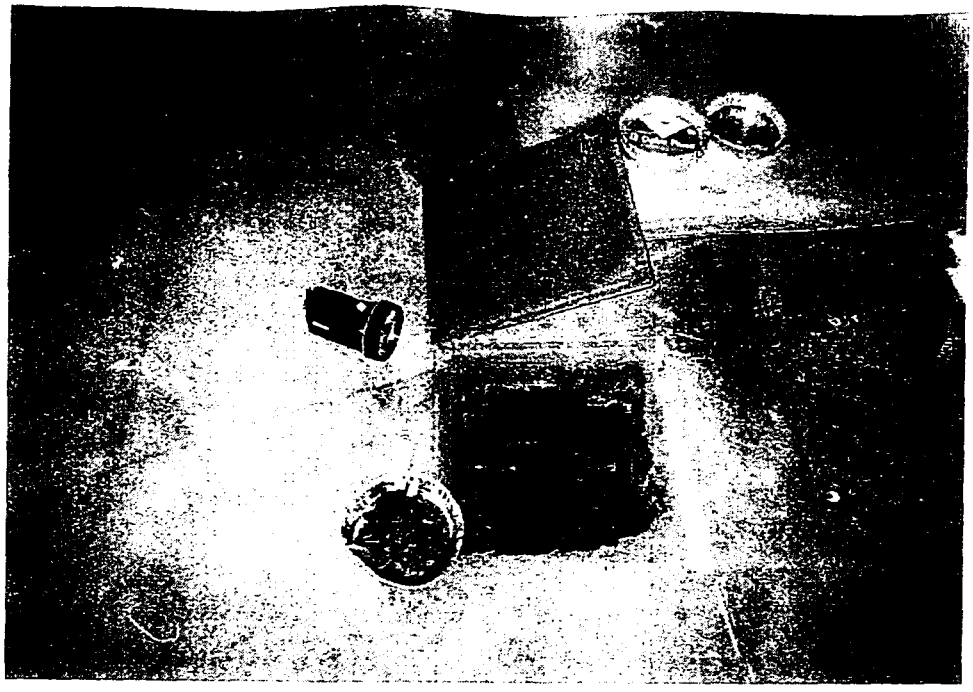


Photograph No.: 9 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-14 collected from a one-cubic-yard box labeled "Wastewater Treatment Sludge" in the chemical storage building

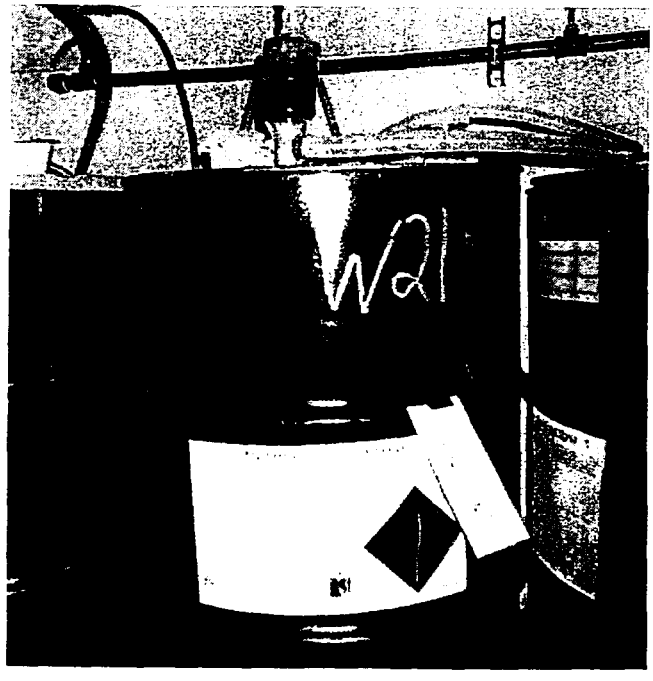
Photograph No.: 10 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-15 collected from a 55-gallon drum labeled "Diesel Fuel" in the chemical storage building

Photograph No.:	11	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Sample No. W-16 collected from a 55-gallon drum in the chemical storage building		

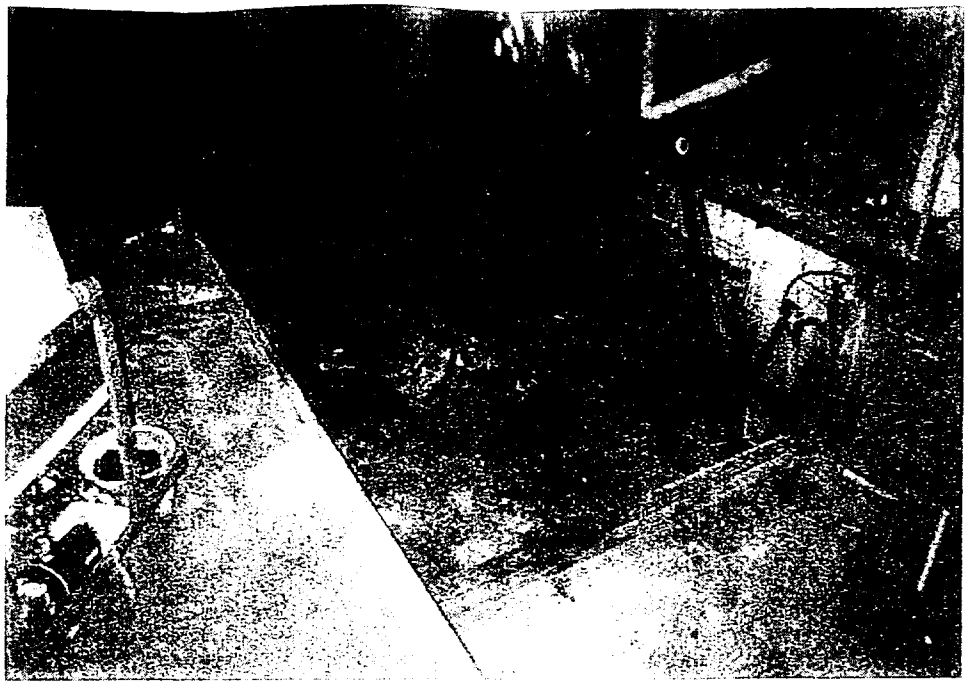
Photograph No.:	12	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Sample No. W-17B collected from a leaking 55-gallon drum in the chemical storage building		



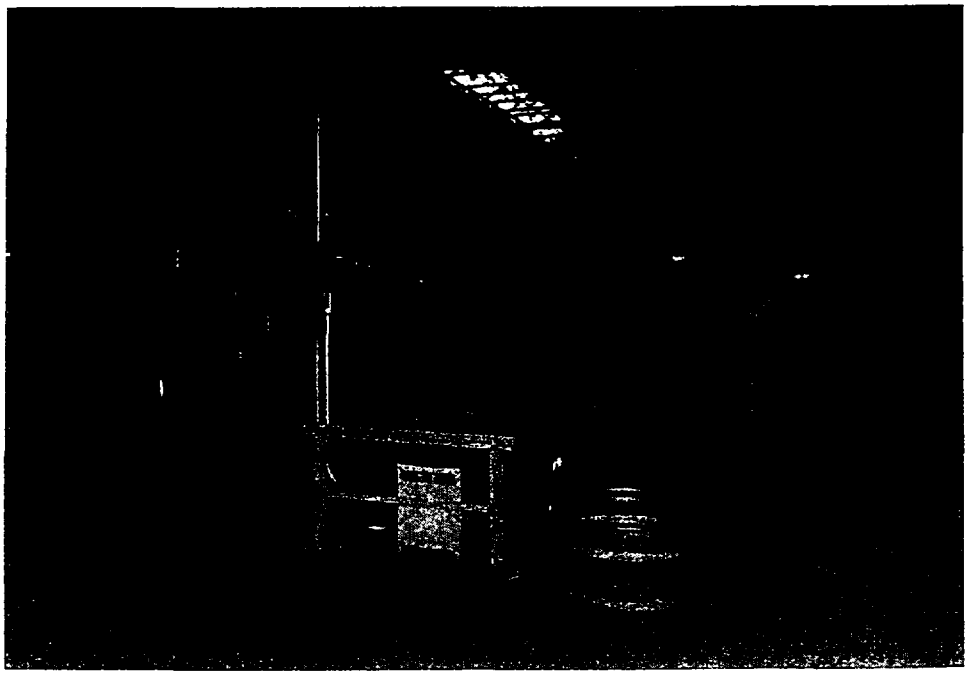
Photograph No.:	13	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Sample No. W-18 collected from a drain in the parts storage area		



Photograph No.:	14	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Sample No. W-21 collected from a 55-gallon drum labeled "Methyl Ethyl Ketone" in the paint spray booth room		

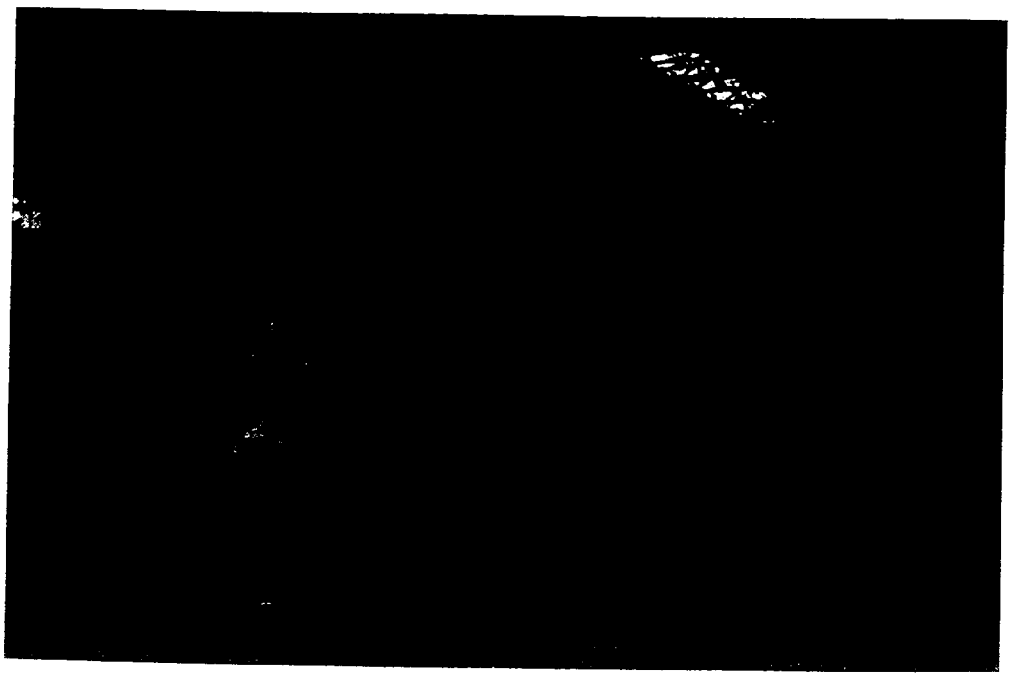


Photograph No.:	15	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-22 collected from solids in a pit in the metal working area		

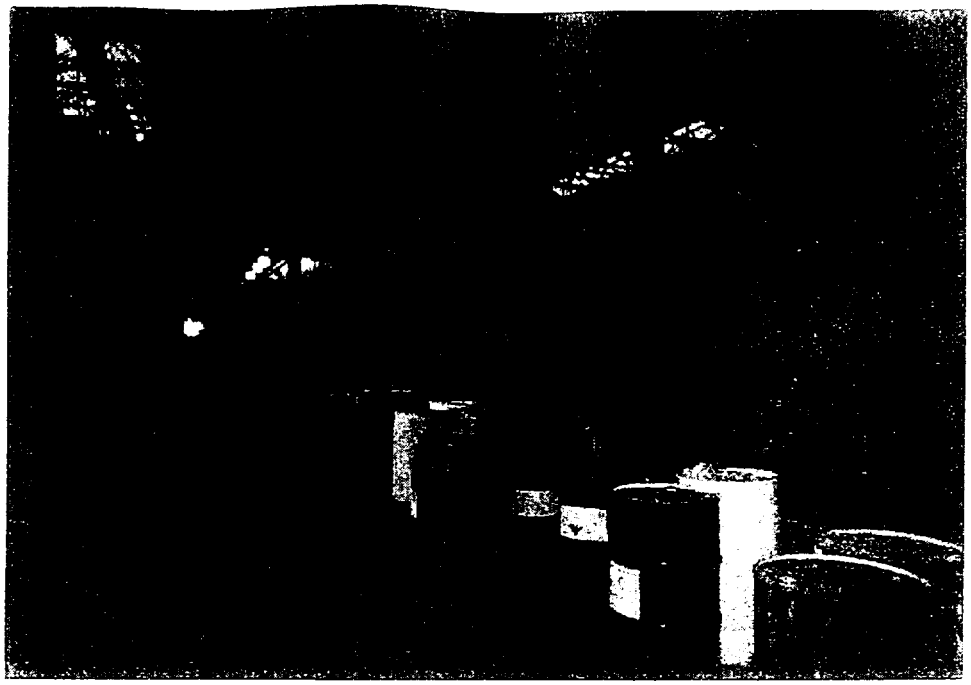


Photograph No.:	16	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-24 collected from beneath the first half of the second row of machinery in the metal working area		

Photograph No.:	17	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-25 collected from beneath the first half of the third row of machinery in the metal working area		



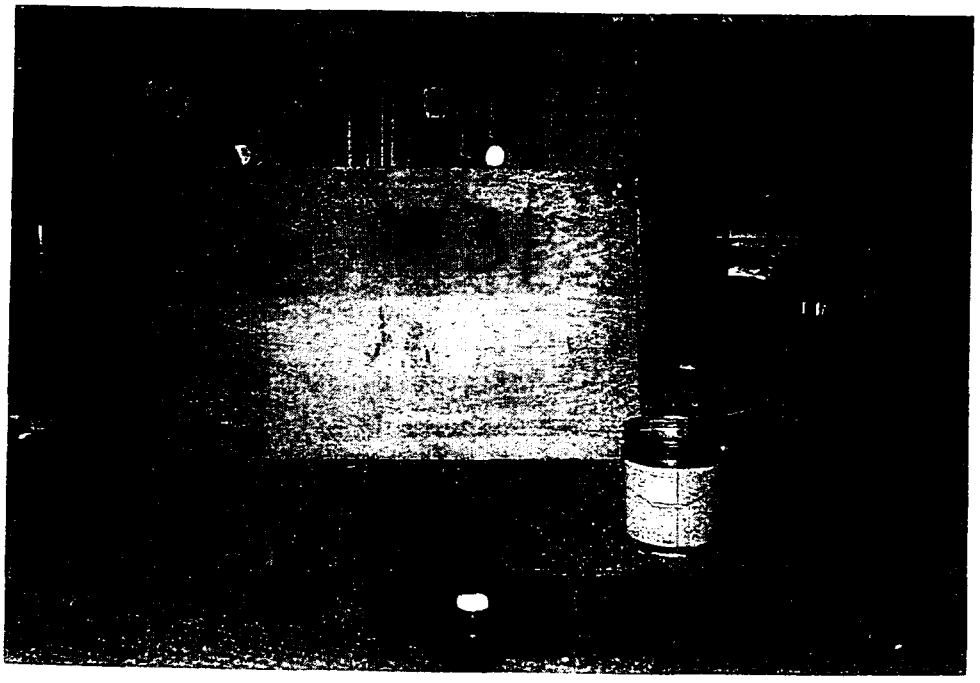
Photograph No.:	18	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Sample No. W-26 collected from an open drum in the metal working area		



Photograph No.:	19	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-27 collected from beneath the first half of the fourth row of machinery in the metal working area		

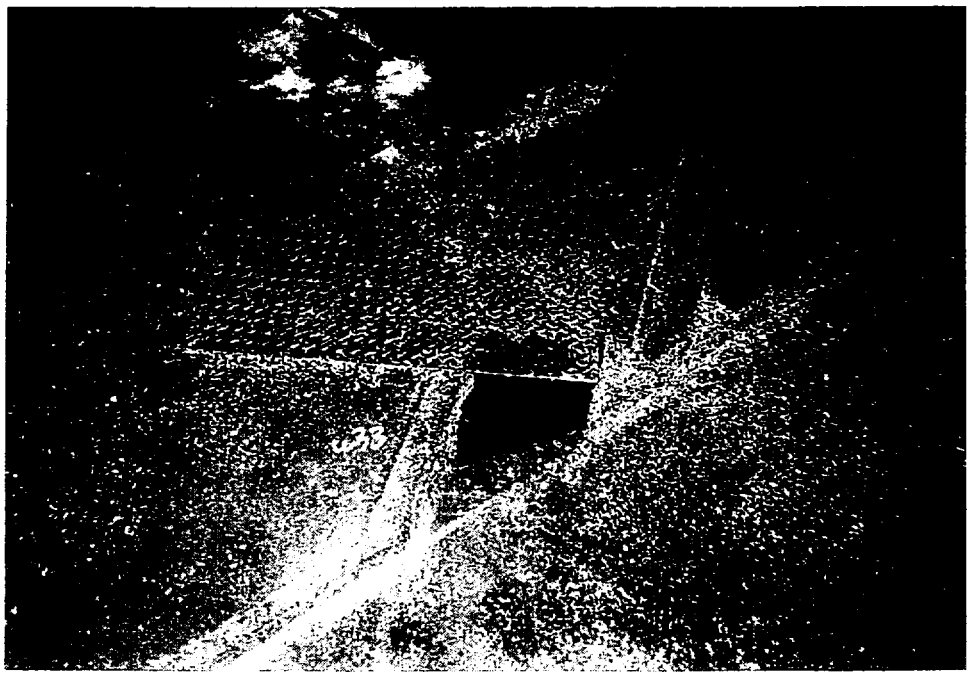
Photograph No.:	20	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-28 and duplicate sample No. W-28D collected from beneath the second half of the fourth row of machinery in the metal working area		

Photograph No.:	21	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sample No. W-30 collected from beneath the second half of the first row of machinery in the metal working area		

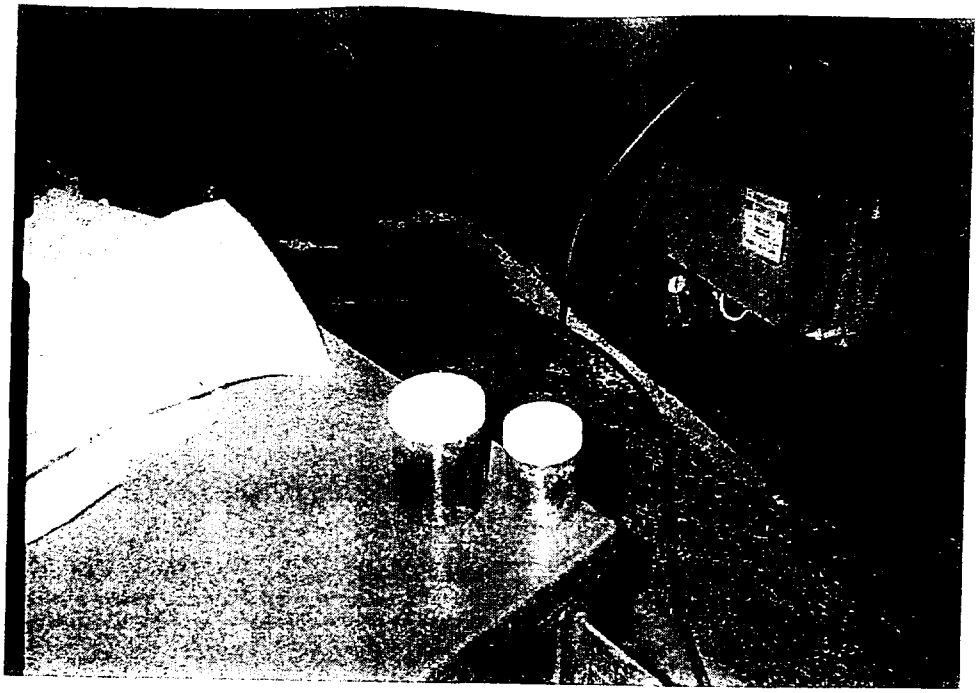


Photograph No.:	22	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sample No. W-31 collected from under a floor grate near the "Hydromation" tank in the metal working area		

Photograph No.:	23	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-32 collected from beneath the second half of the second row of machinery in the metal working area		

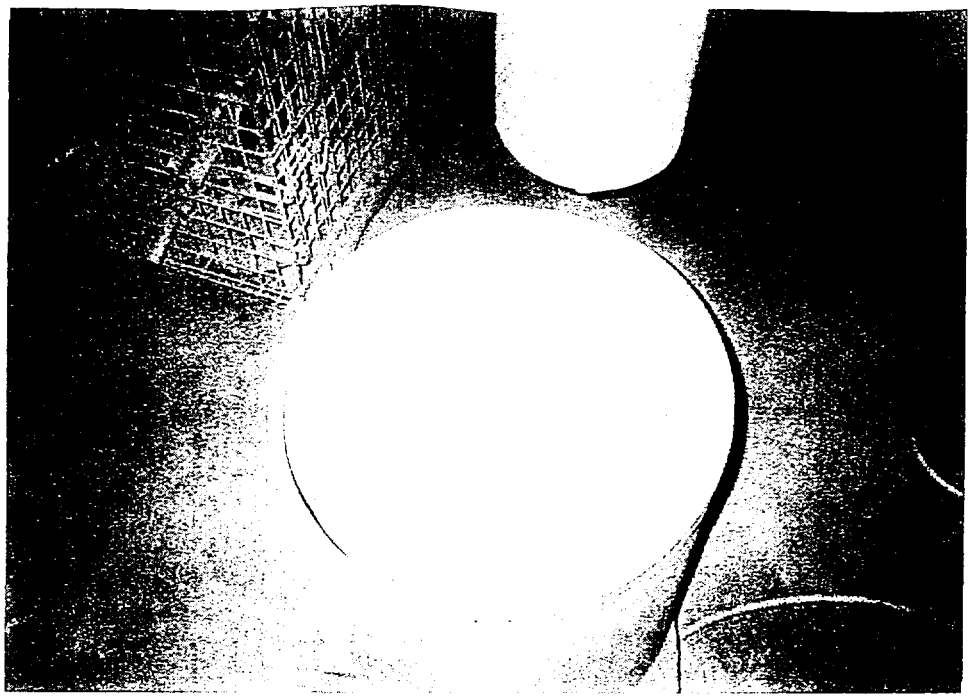


Photograph No.:	24	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Sample No. W-33 collected from a drain hole in the floor near the first half of the third row of machinery in the metal working area		

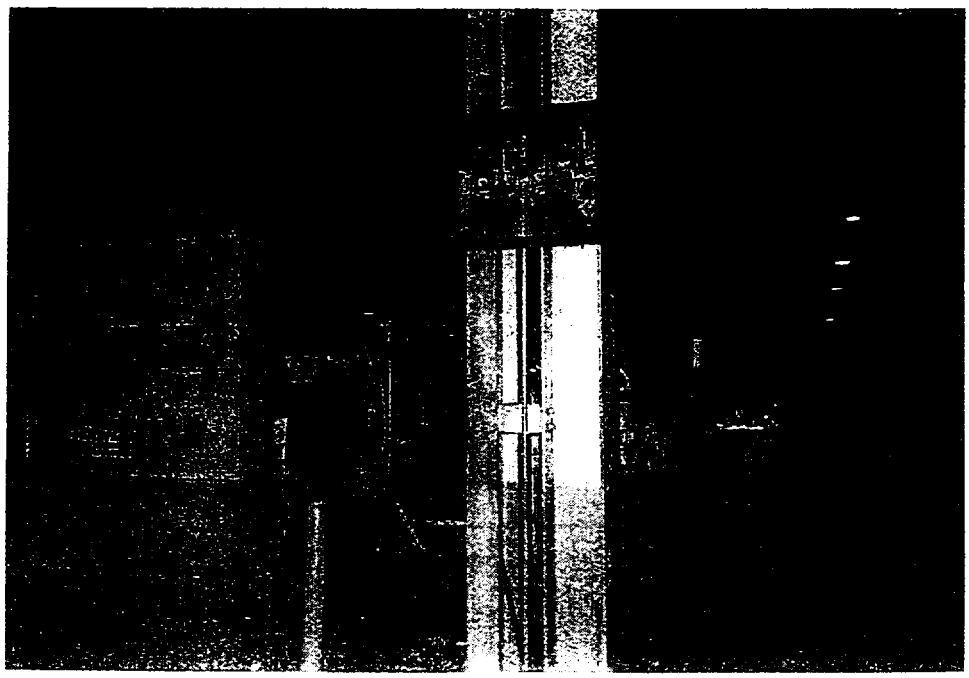


Photograph No.:	25	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-34 collected from beneath the second half of the third row of machinery in the metal working area		

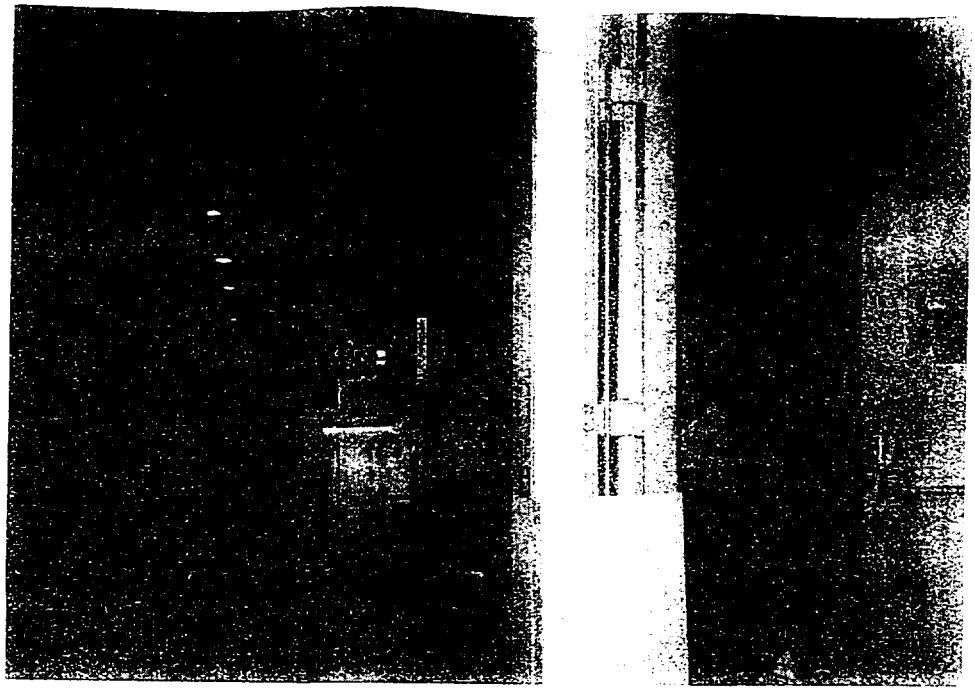
Photograph No.:	26	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Sample No. W-36 collected from inside of a containment berm of the soluble oil tank in the grit blasting area		



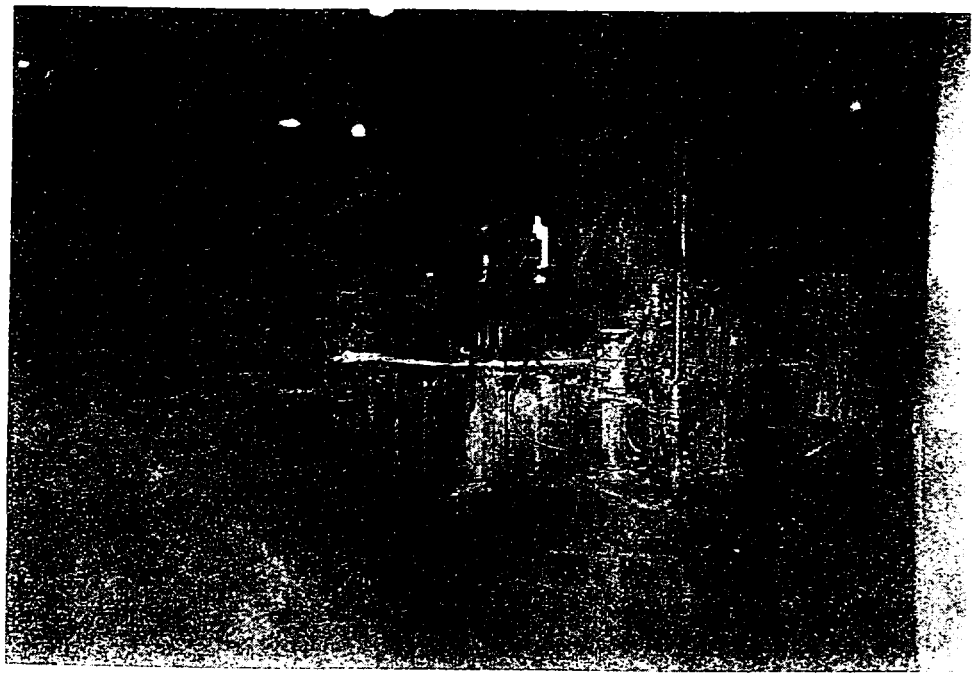
Photograph No.:	27	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Sample No. W-37A collected from graphite material on the floor by the grit blasting machine in the grit blasting area		



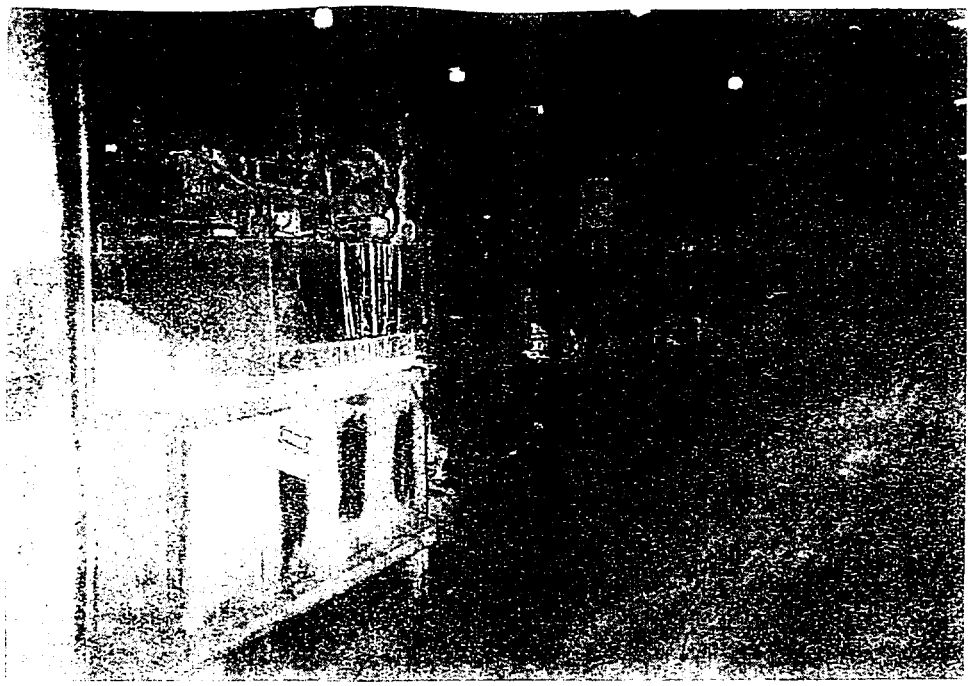
Photograph No.:	28	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-37B collected from beneath the northwest quadrant of machinery in the new die cast area		



Photograph No.: 29 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Composite sample No. W-38 collected from beneath the northeast quadrant of machinery in the new die cast area

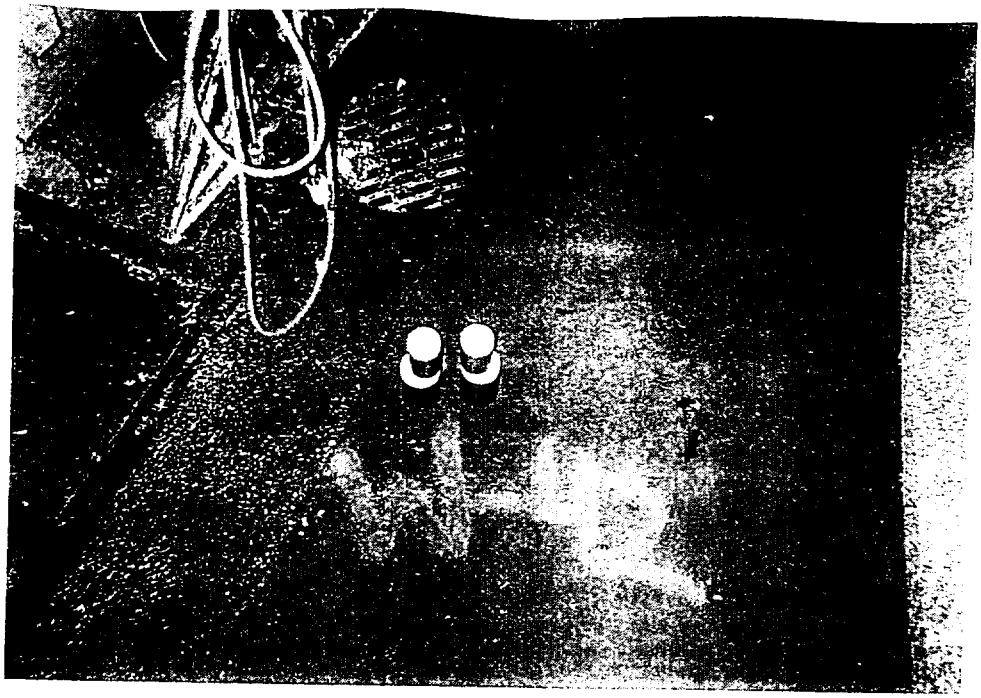


Photograph No.: 30 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Composite sample No. W-39 collected from beneath the southwest quadrant of machinery in the new die cast area



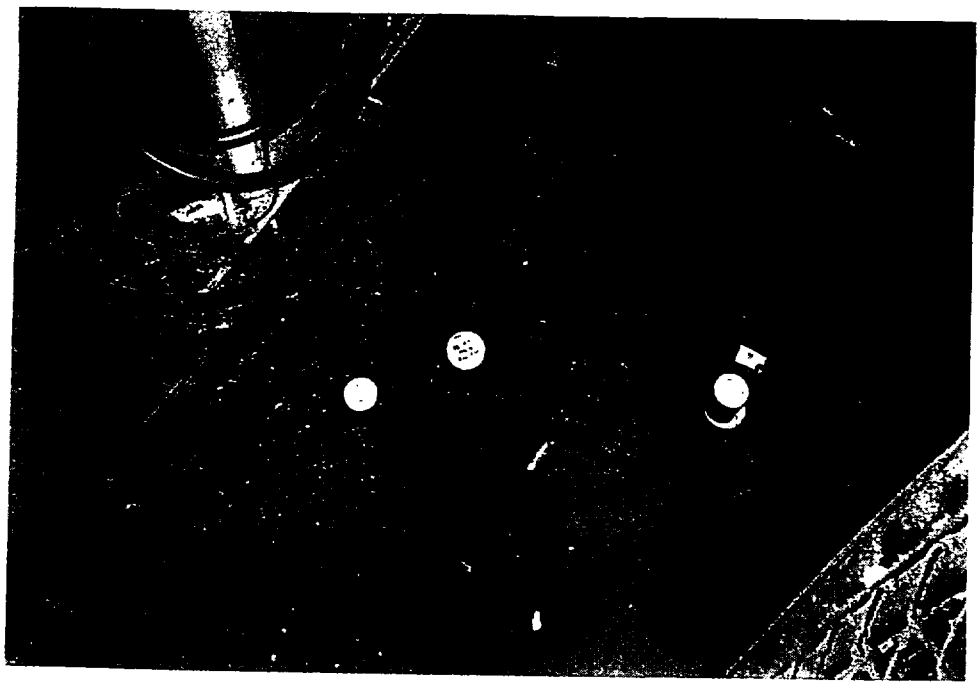
Photograph No.:	31	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite sample No. W-40 collected from beneath the southeast quadrant of machinery in the new die cast area		

Photograph No.:	32	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sample No. W-41 collected from the No. 420 drip pan of a drainage sump in the new die cast area		



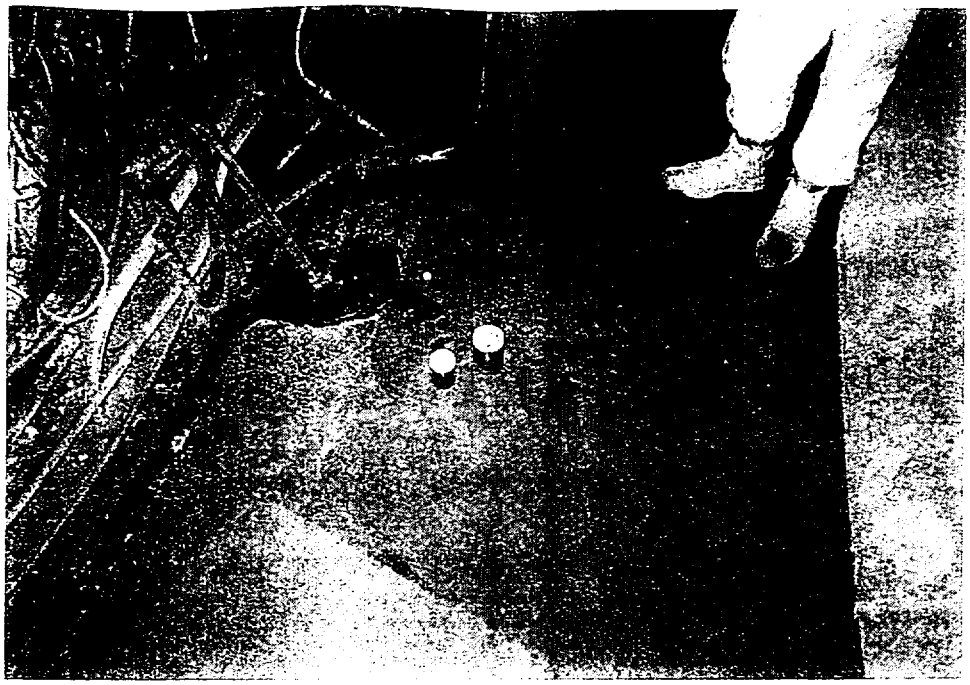
Photograph No.: 33
TDD No.: S05-0202-004
Location: OMC site
Subject: Sample No. W-42 and duplicate sample No. W-42D collected from the No. 321 drip pan in the new die cast area

Orientation: NA
Date: 06 Mar 02

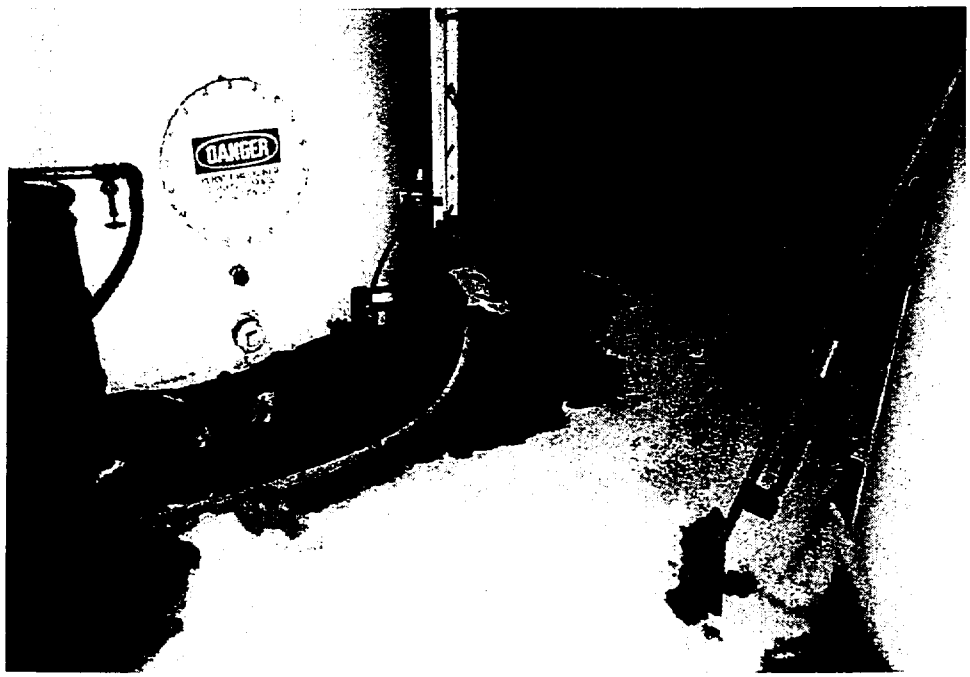


Photograph No.: 34
TDD No.: S05-0202-004
Location: OMC site
Subject: Sample No. W-43 collected from the No. 408 drip pan in the new die cast area

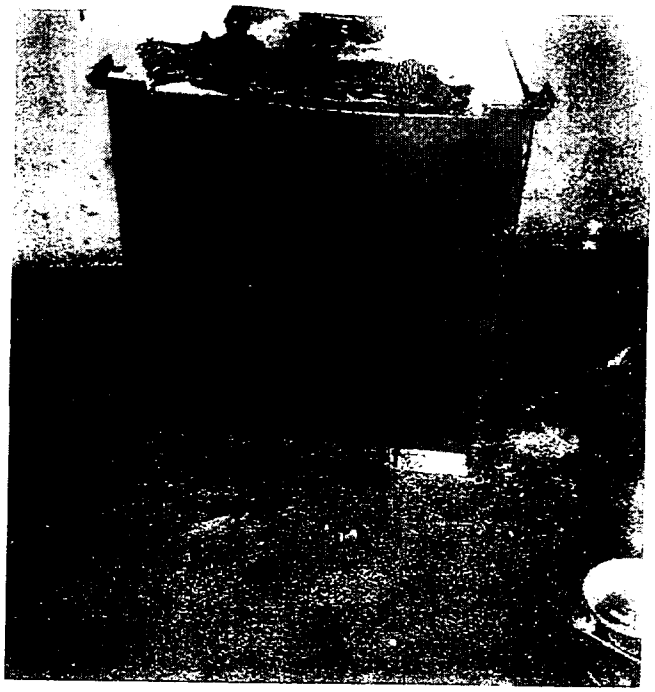
Orientation: NA
Date: 06 Mar 02



Photograph No.:	35	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sample No. W-44 collected from the No. 307 drip pan in the new die cast area		

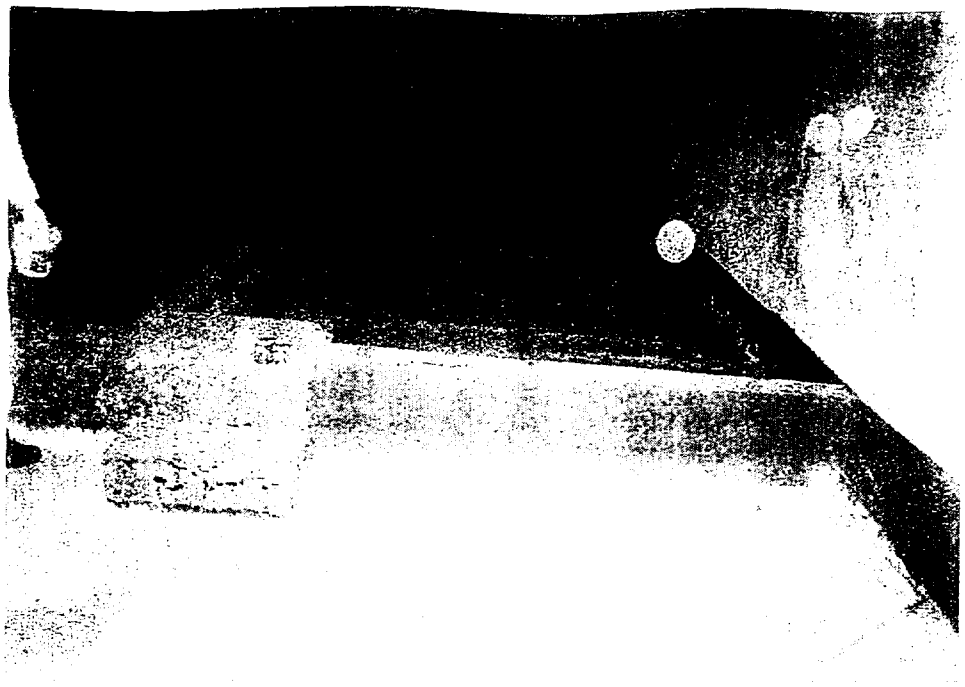


Photograph No.:	36	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Location of collection of sample No. W-45, oil-soaked solids in the aboveground storage tank (AST) area, near location of collection of waste sample No. W-108		

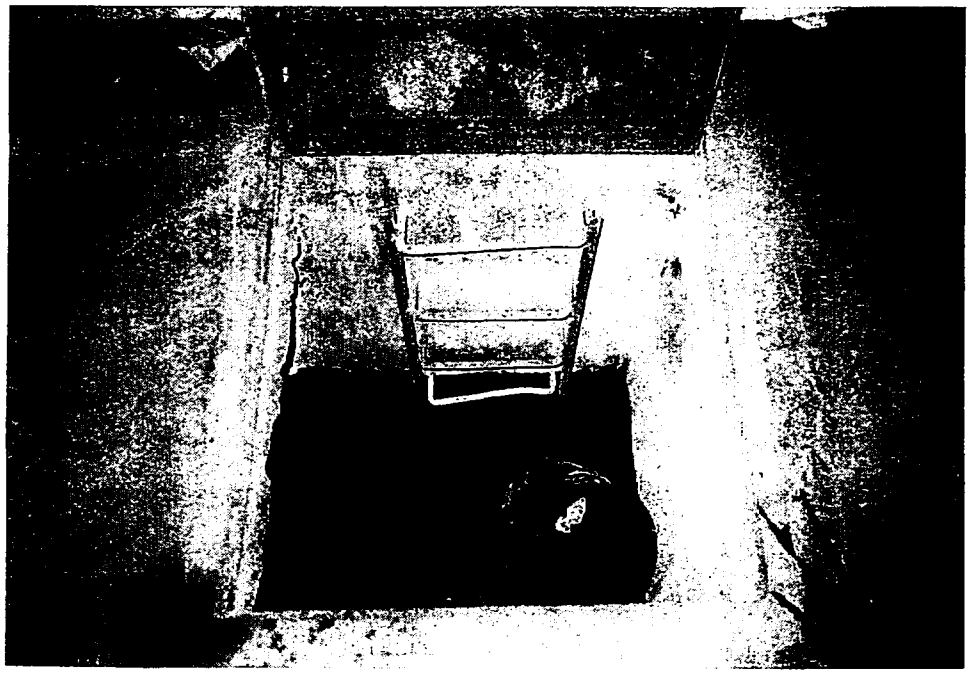


Photograph No.:	37	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sample No. W-51 collected from a red tote near the AST area		

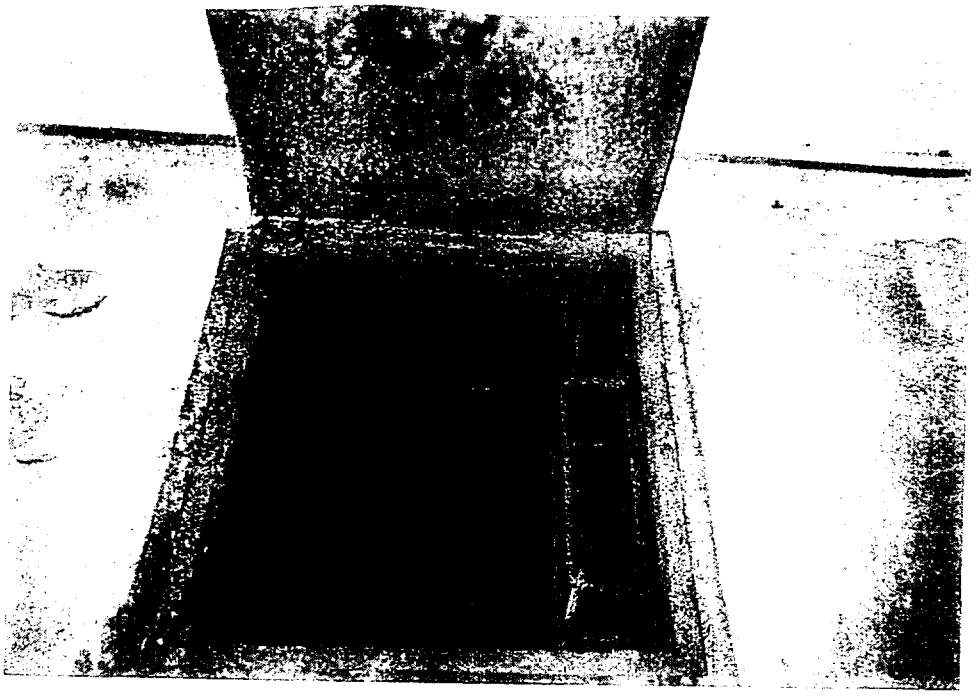
Photograph No.:	38	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sample No. W-52 and duplicate sample No. W-52D collected from a 5-gallon paint bucket labeled "Flammable Liquid Charcoal High Solids Acrylic Bake" in the paint spray booth room		



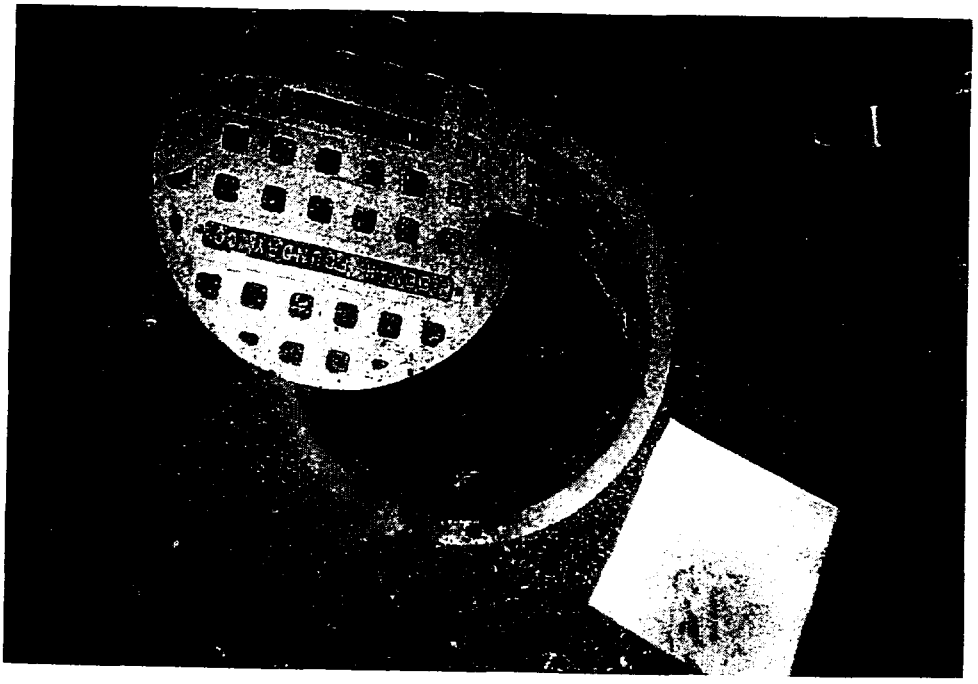
Photograph No.: 39 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Composite sample No. W-102 collected from the troughs in the basement of the wastewater treatment room in the metal working area



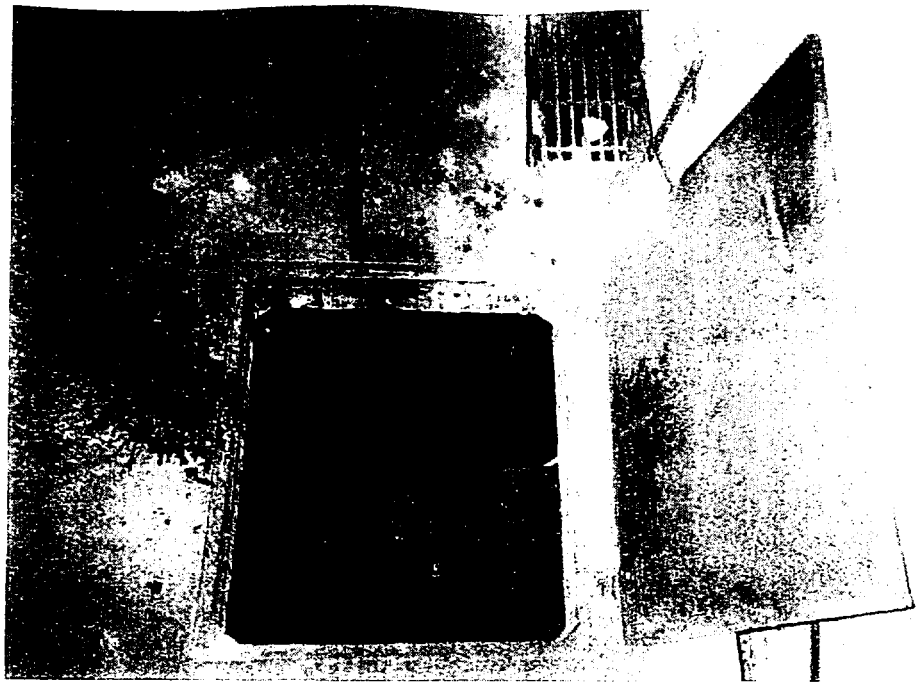
Photograph No.: 40 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-103 collected from a pipe chase in the old die cast area



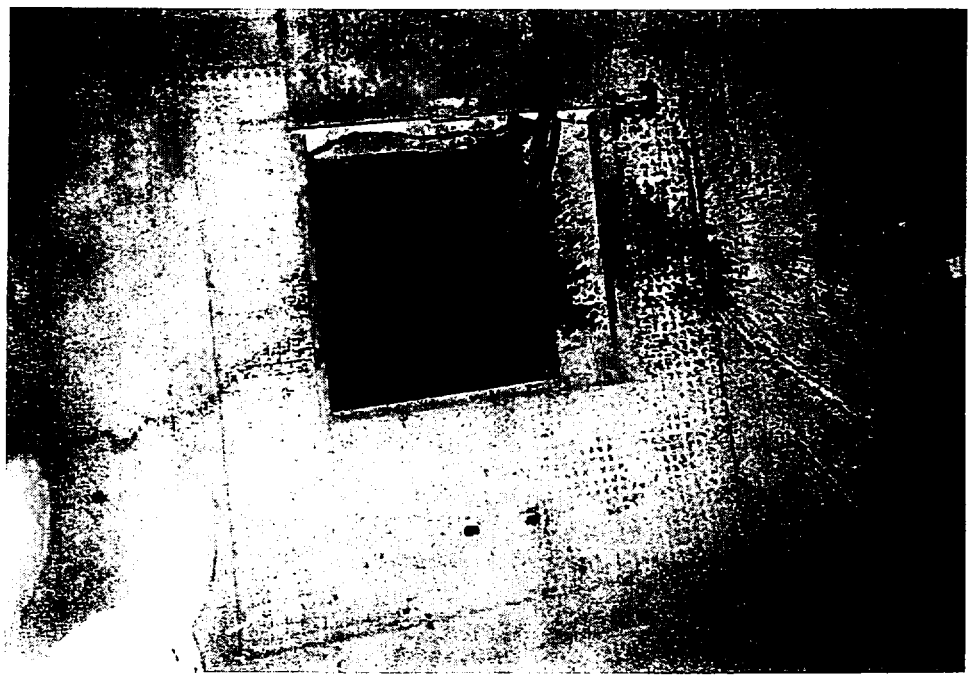
Photograph No.: 41
TDD No.: S05-0202-004
Location: OMC site
Subject: Sample No. W-104 collected from a pipe chase in the old die cast area
Orientation: NA
Date: 05 Mar 02



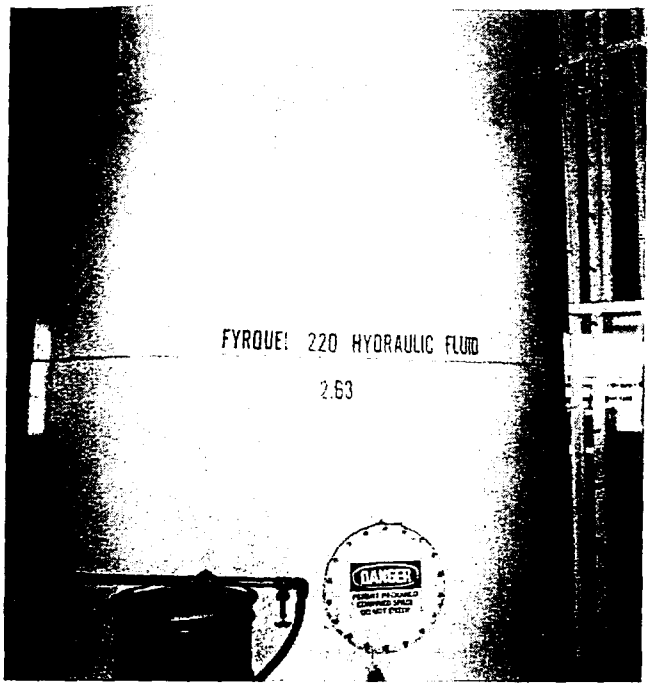
Photograph No.: 42
TDD No.: S05-0202-004
Location: OMC site
Subject: Sample No. W-105 collected from a manhole in the chip wringer room
Orientation: NA
Date: 05 Mar 02



Photograph No.: 43 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-106 collected from a cistern in the chip wringer room

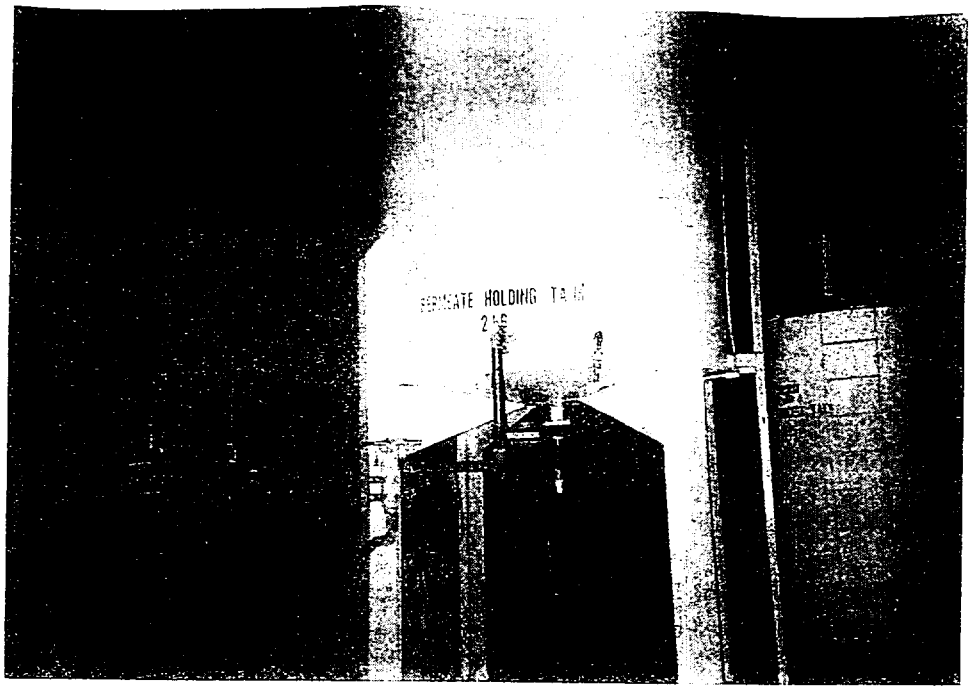


Photograph No.: 44 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-107 collected from a pipe chase containing a red hose that was discharging hot water



Photograph No.: 45 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-108 collected from an AST labeled "Fyrquel 220 Hydraulic Fluid" in the new die cast area

Photograph No.: 46 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-109 collected from an open drum next to an AST labeled "Waste Soap and Water" in the new die cast area

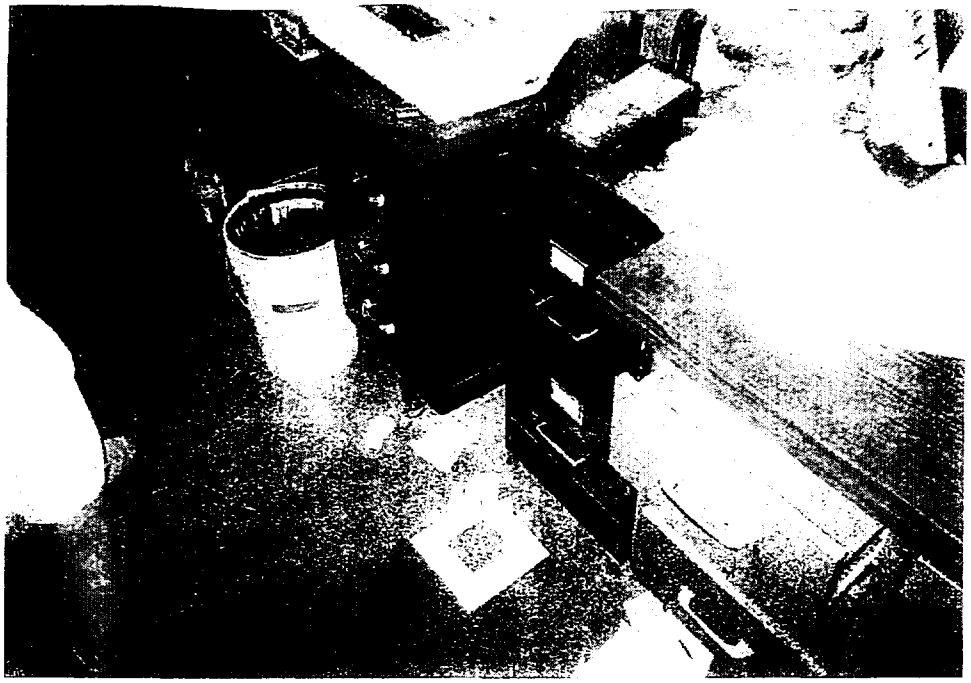


Photograph No.: 47 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Sample No. W-110 collected from an AST labeled "Permeate Holding Tank" in the new die cast area

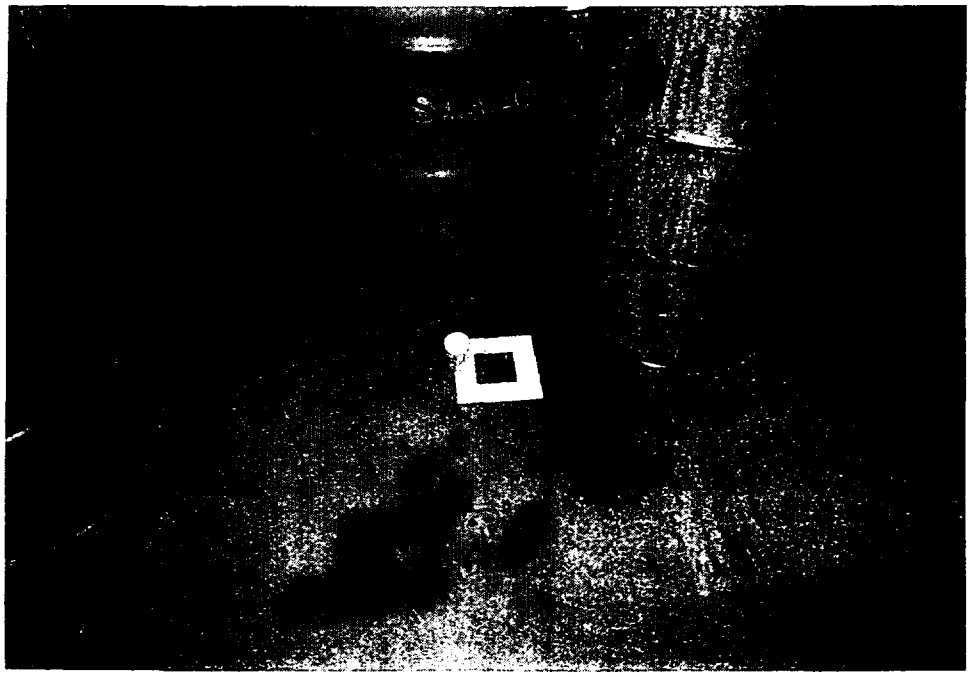
Photograph No.: 48 **Orientation:** West
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Samples No. W-111A and W-111B collected from a cistern near the hopper located outside the chip wringer room

Photograph No.:	49	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-01 collected from the floor of the chemical storage building		

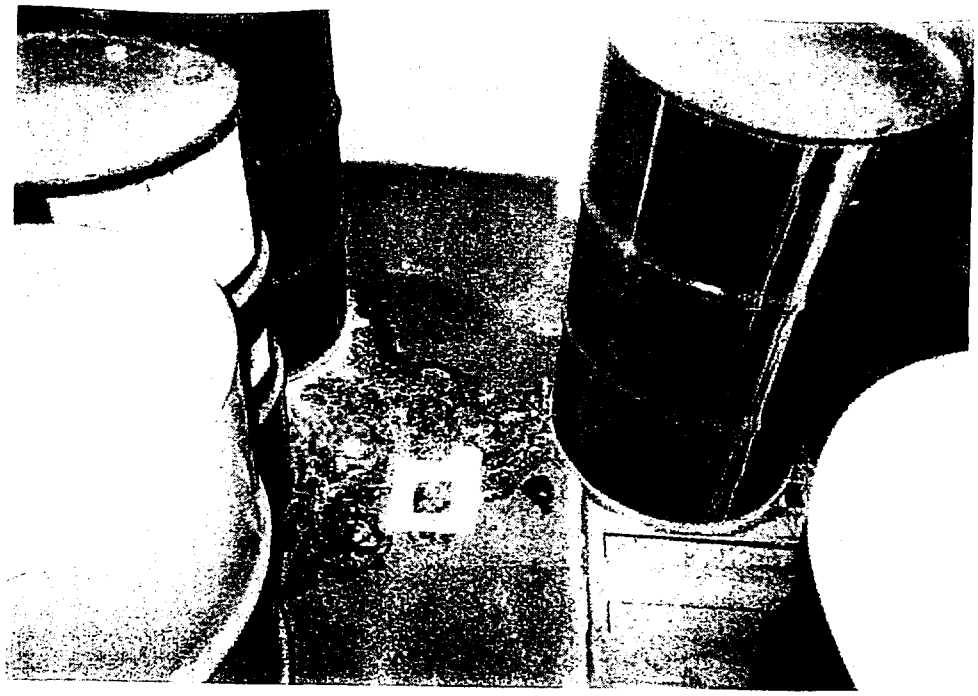
Photograph No.:	50	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-02 collected from the floor of the chemical storage building		



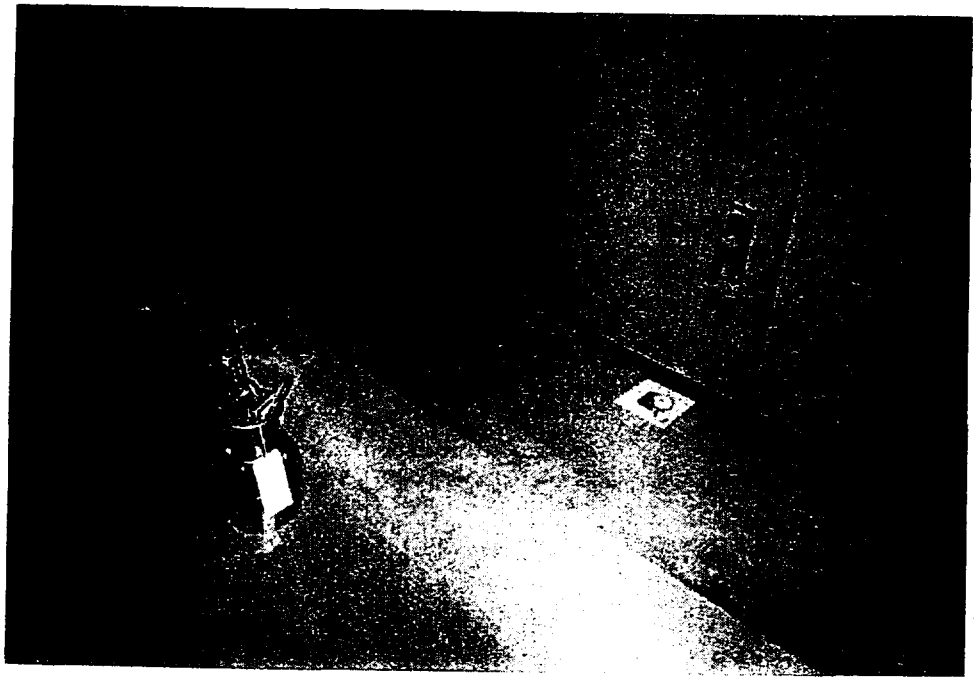
Photograph No.:	51	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-03 collected from the floor of the office area in the chemical storage building		



Photograph No.:	52	**Orientation:**	Southwest
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-04 collected from the floor of the chemical storage building		

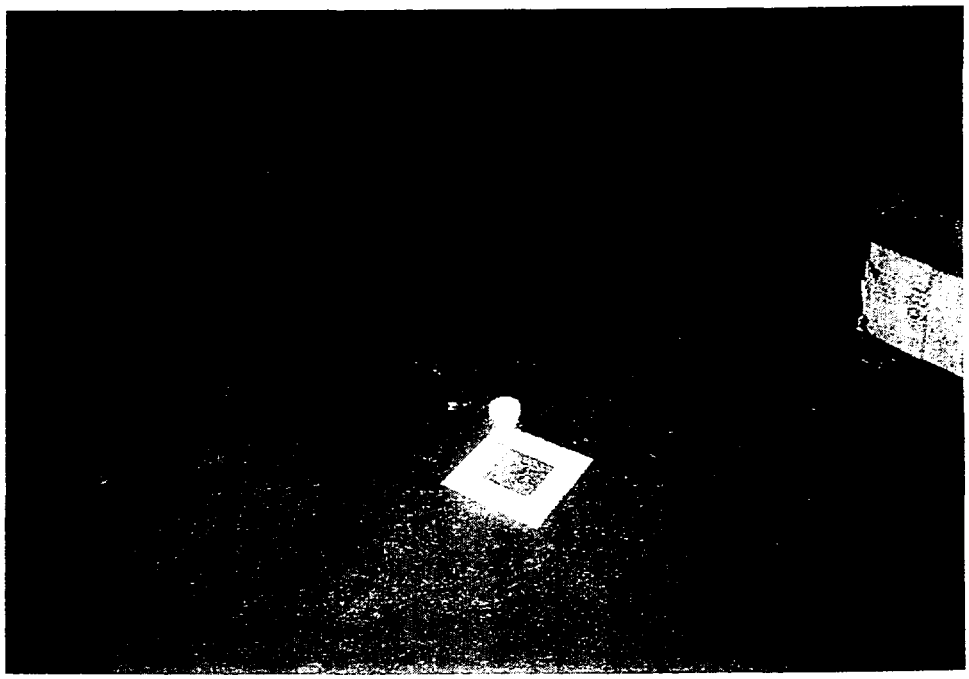


Photograph No.: 53
TDD No.: S05-0202-004
Location: OMC site
Subject: Wipe sample No. WIPE-05 collected from the floor of the chemical storage building
Orientation: Northeast
Date: 05 Mar 02

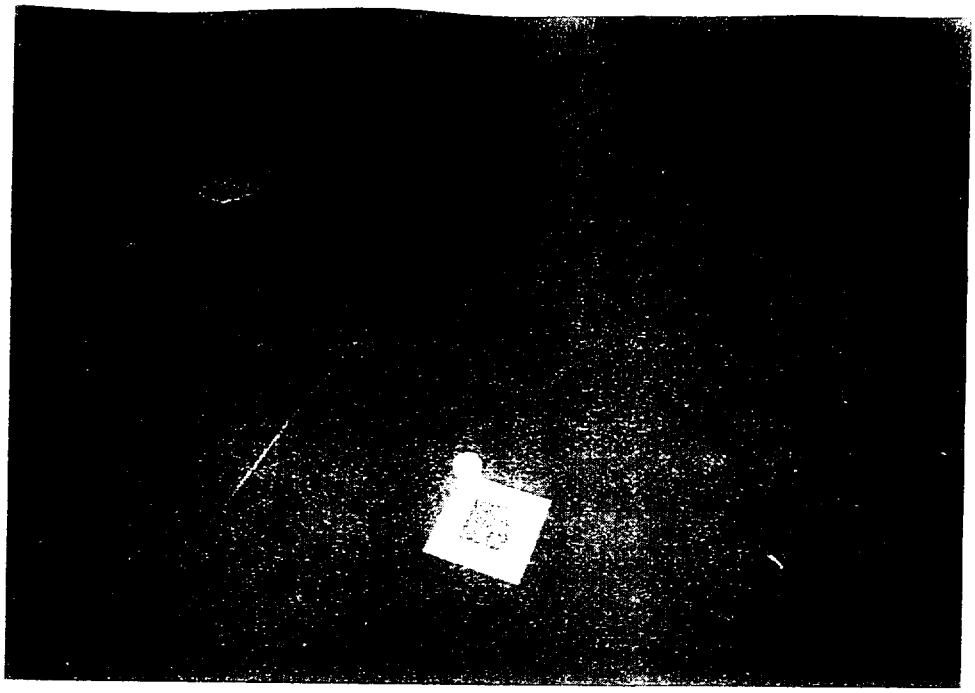


Photograph No.: 54
TDD No.: S05-0202-004
Location: OMC site
Subject: Wipe sample No. WIPE-06 collected from the floor in front of an electrical panel in the chemical storage building
Orientation: Northwest
Date: 05 Mar 02

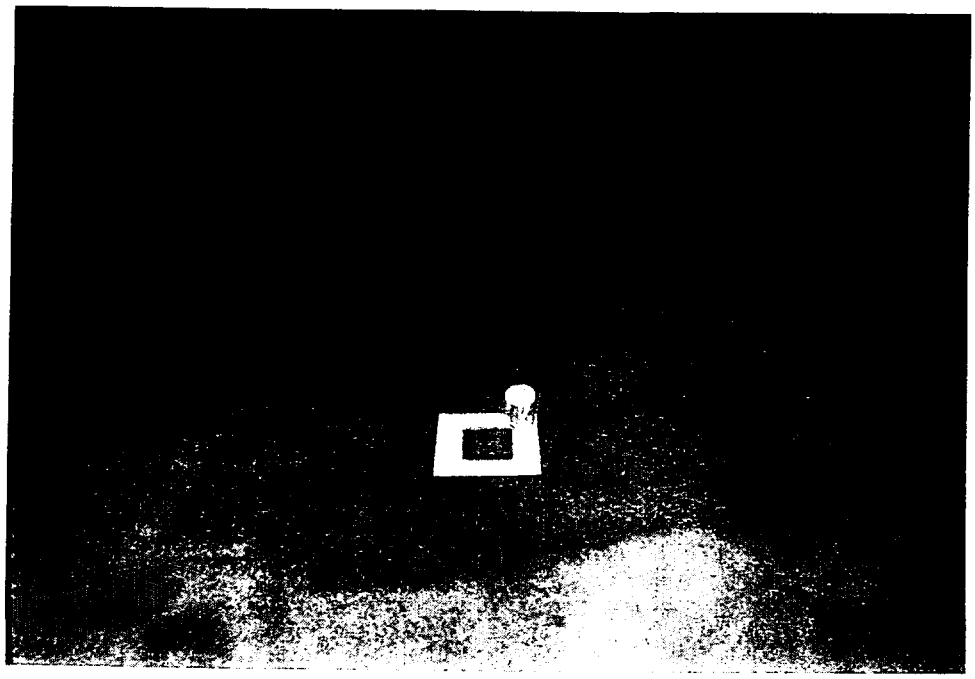
Photograph No.:	55	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-07 collected from the floor in the west-central portion of the old die cast area		



Photograph No.:	56	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-08 collected from the floor in the east-central portion of the old die cast area		

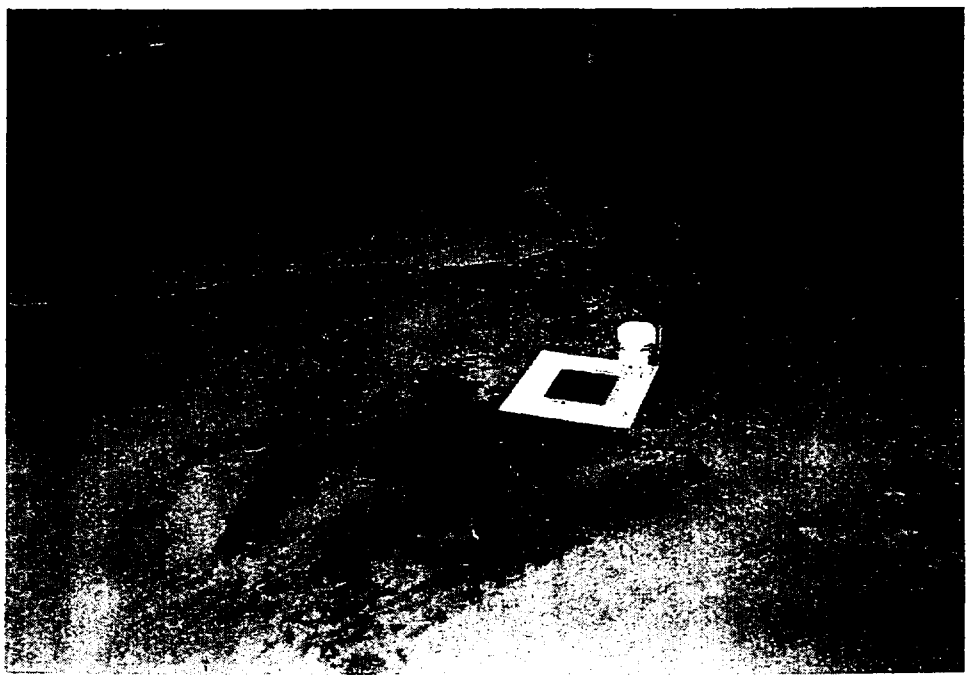


Photograph No.:	57	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-09 collected from the floor in the southeastern portion of the old die cast area		

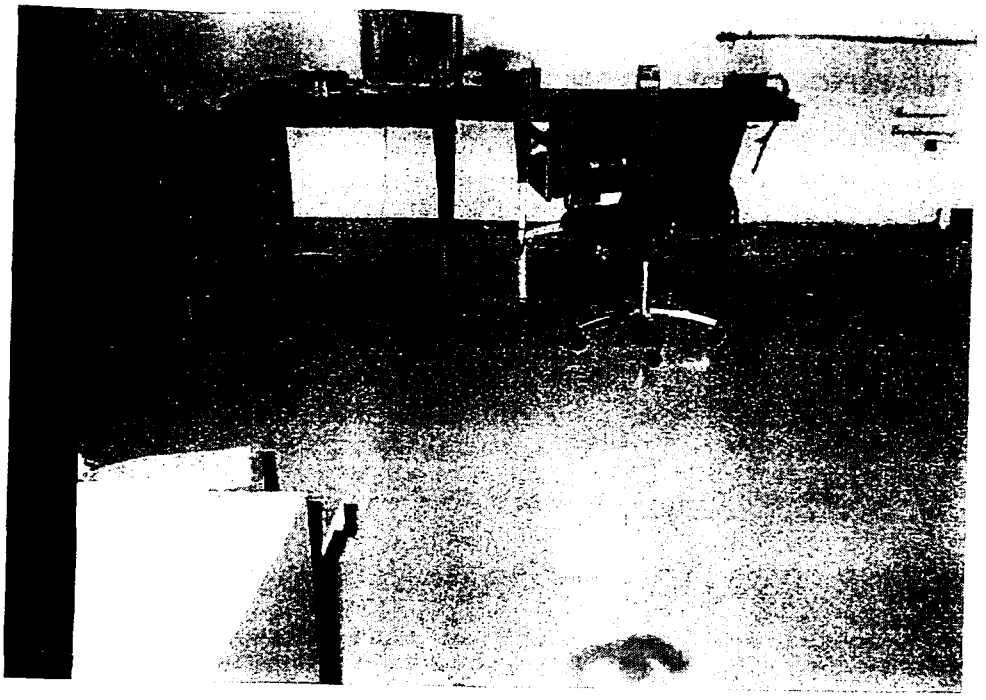


Photograph No.:	58	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-10 collected from the floor in the southwestern portion of the old die cast area		

Photograph No.:	59	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-11 collected from the floor in the northwestern portion of the old die cast area		

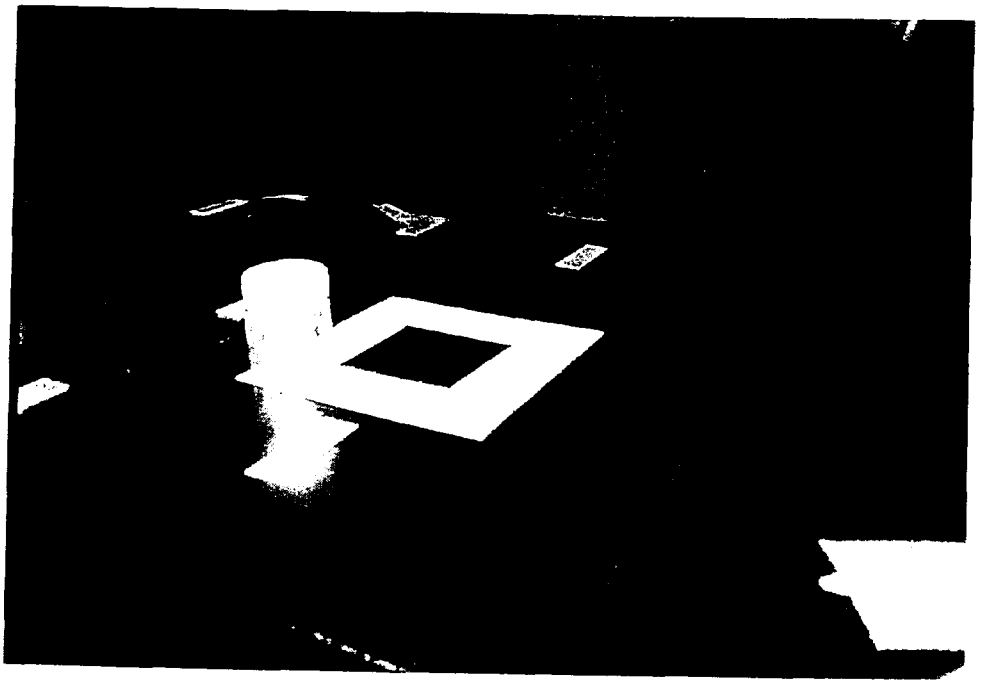


Photograph No.:	60	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-12 collected from the floor in the northeastern portion of the old die cast area		



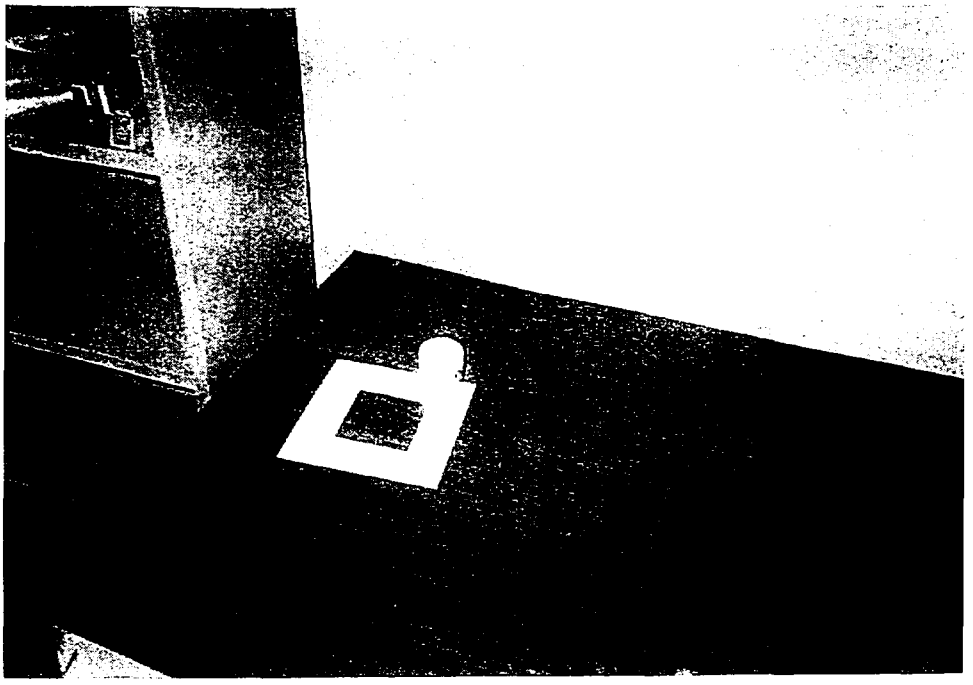
Photograph No.: 61
TDD No.: S05-0202-004
Location: OMC site
Subject: Wipe sample No. WIPE-13 collected from the floor of the room near to the office area off of the old die cast area

Orientation: South
Date: 05 Mar 02

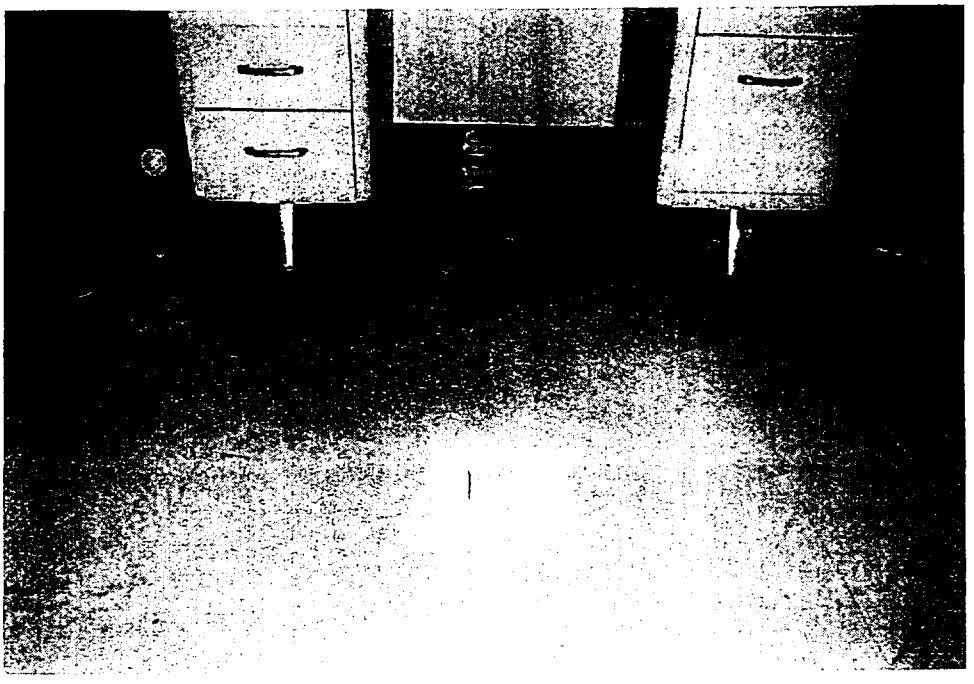


Photograph No.: 62
TDD No.: S05-0202-004
Location: OMC site
Subject: Wipe sample No. WIPE-14 collected from the surface of the filing cabinet in the office area off of the old die cast area

Orientation: Northeast
Date: 05 Mar 02

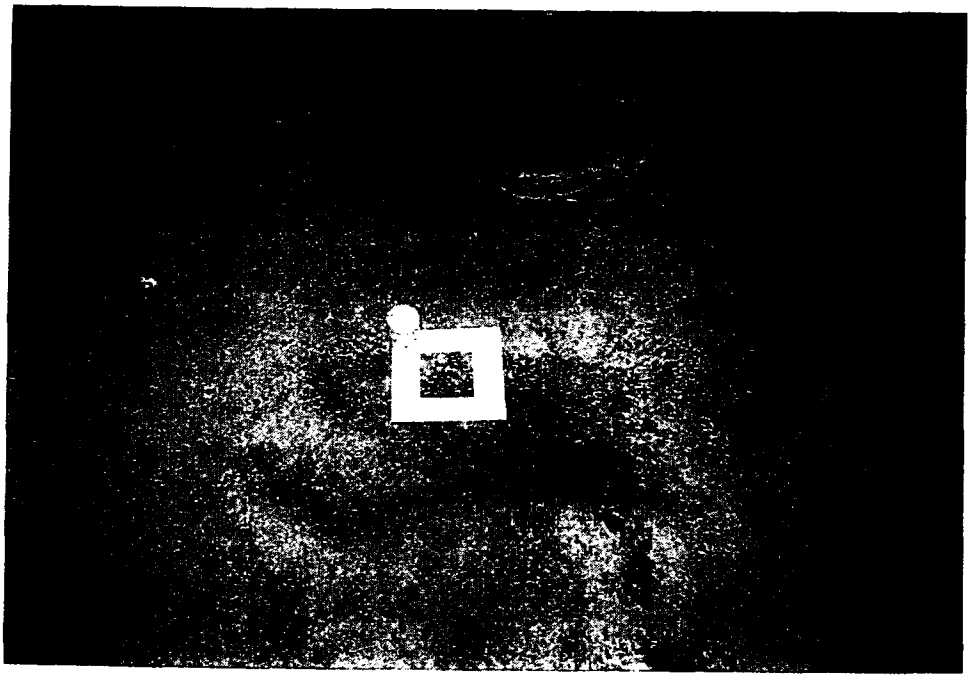


Photograph No.:	63	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-15 collected from the surface of the desk located in the office area off of the old die cast area		

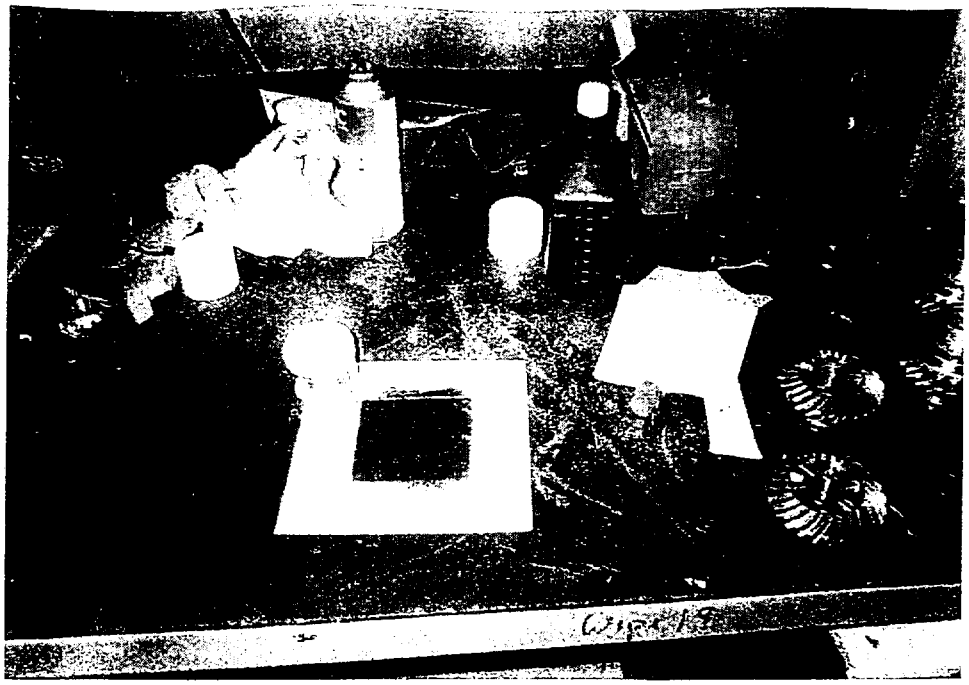


Photograph No.:	64	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-16 collected from the floor of the office area between a desk and filing cabinet off of the old die cast area		

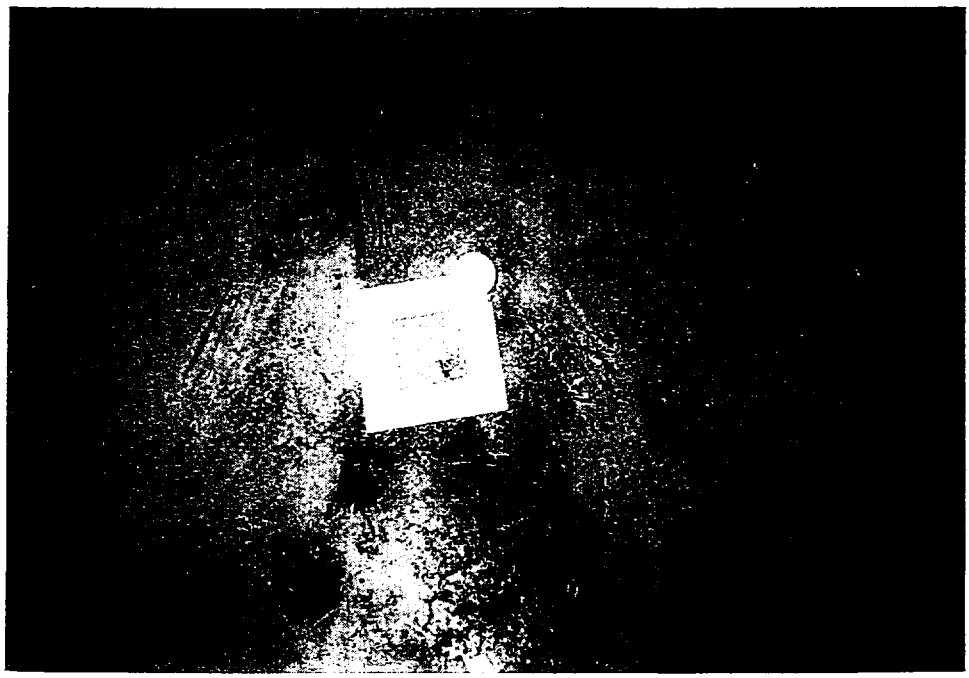
Photograph No.:	65	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-17 collected from the floor between the wood shop and office area in the western portion of the old die cast area		



Photograph No.:	66	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-18 collected from the floor in the western portion of the old die cast area		

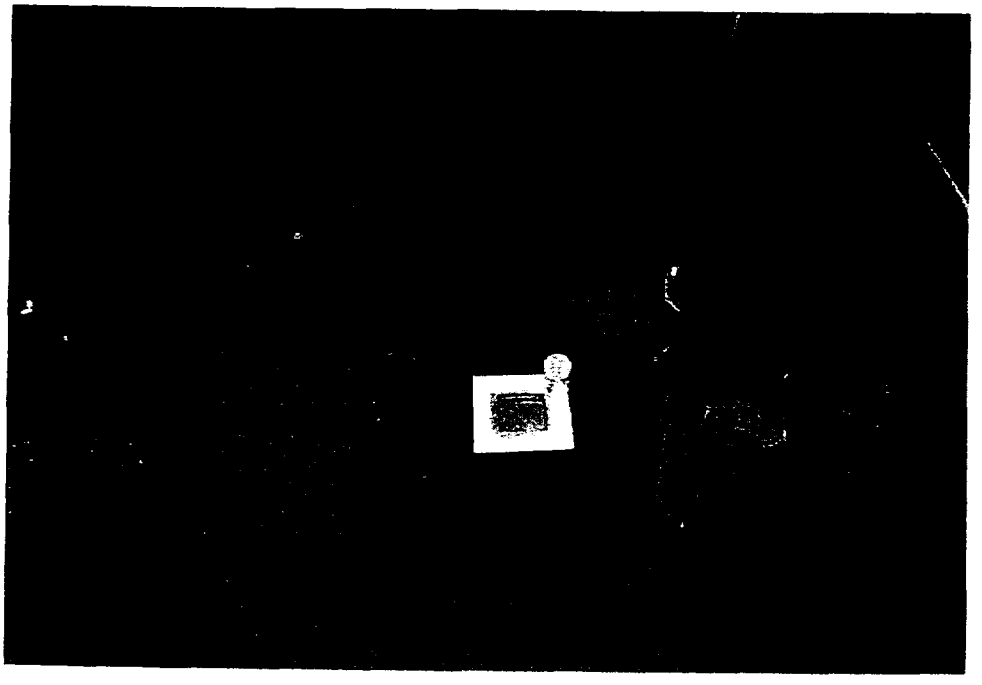


Photograph No.:	67	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-19 collected from the surface of the desk between the office area and wood shop in the western portion of the old die cast area		

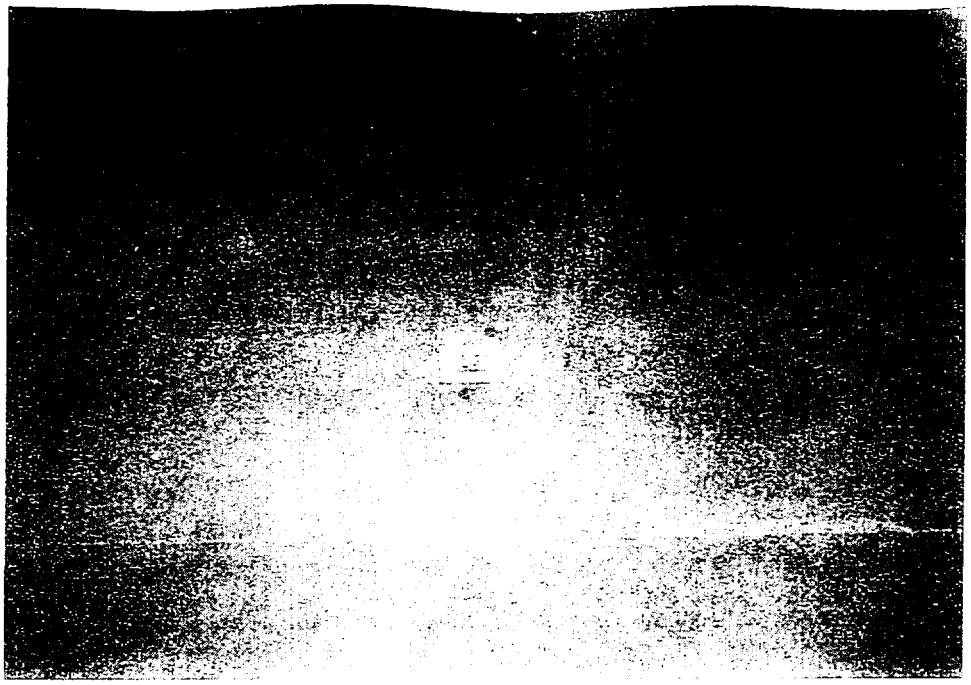


Photograph No.:	68	**Orientation:**	Northwest
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-20 collected from the floor in the center of the wood shop area		

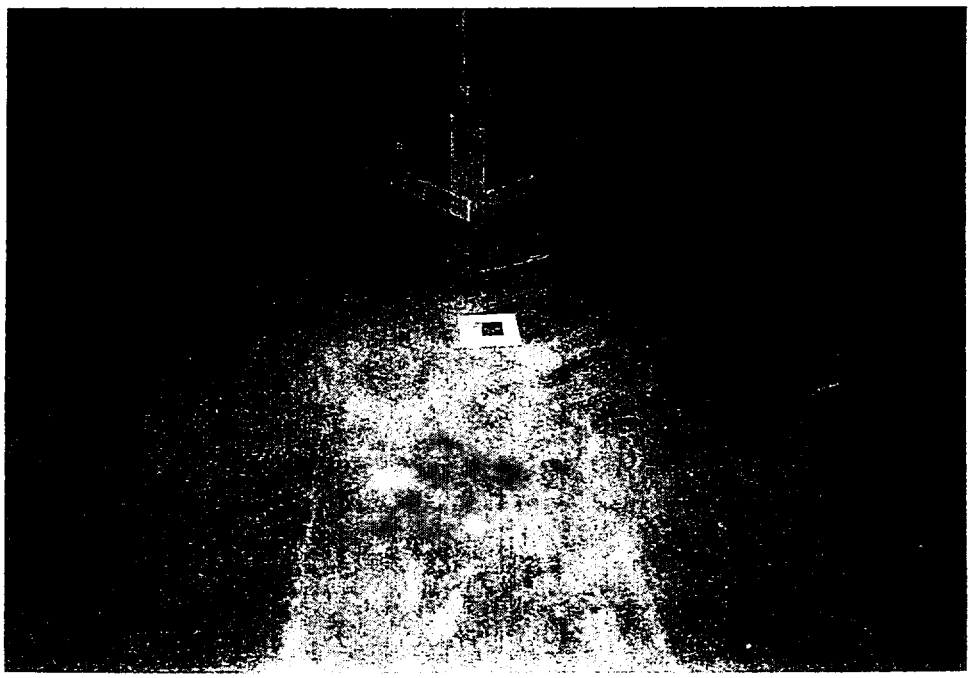
Photograph No.:	69	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-21 collected from the floor located south of the wood shop area		



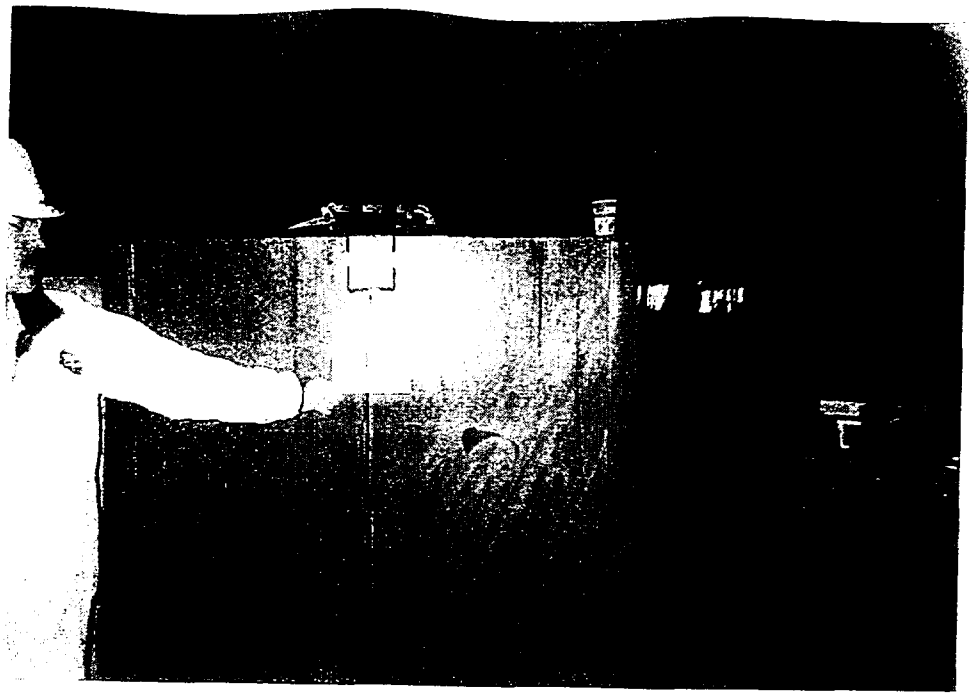
Photograph No.:	70	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-22 collected from the floor near the center of the parts storage area		



Photograph No.:	71	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-23 collected from the floor of the parts storage area		



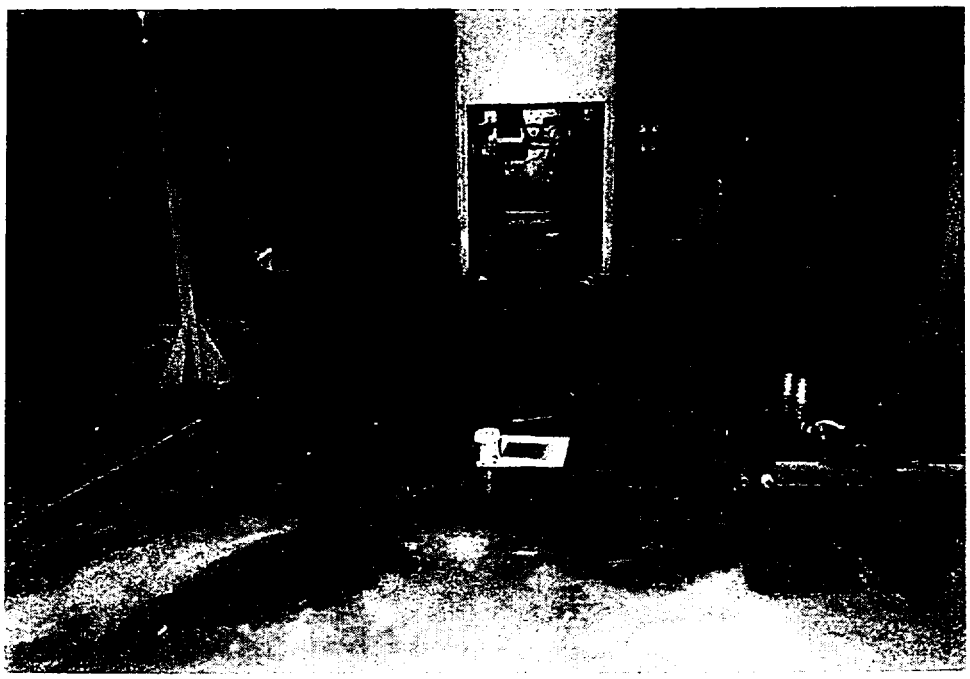
Photograph No.:	72	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-24 collected from the floor of the parts storage area		



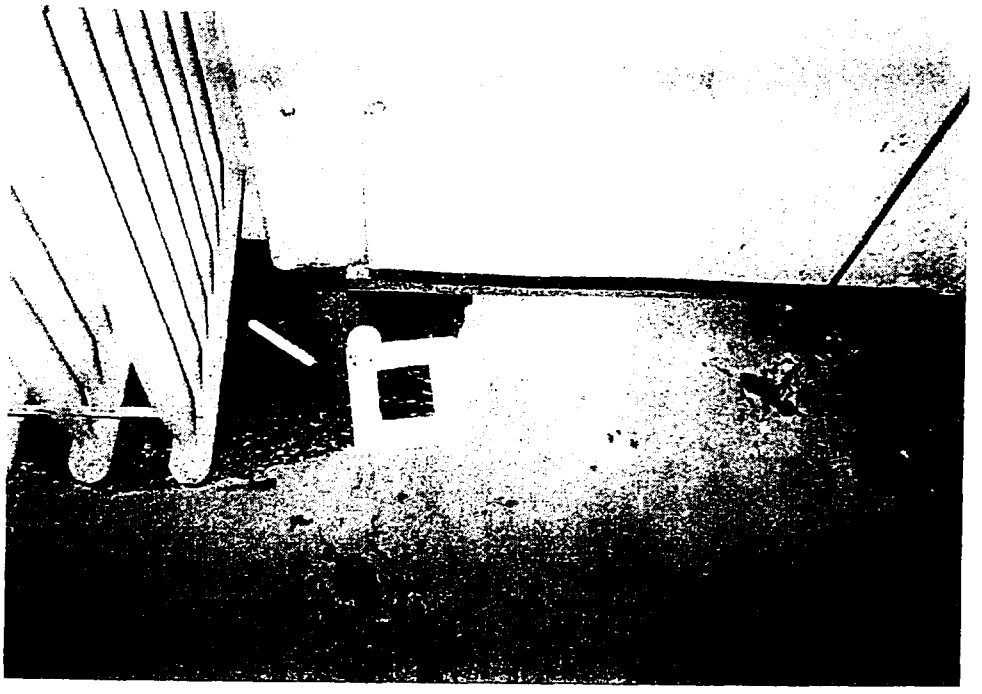
Photograph No.: 73 **Orientation:** East
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Wipe sample No. WIPE-25 collected from the surface of the blue tank CD-540 in the southeastern portion of the parts storage area

Photograph No.: 74 **Orientation:** West
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Wipe sample No. WIPE-26 collected from the floor in the parts storage area

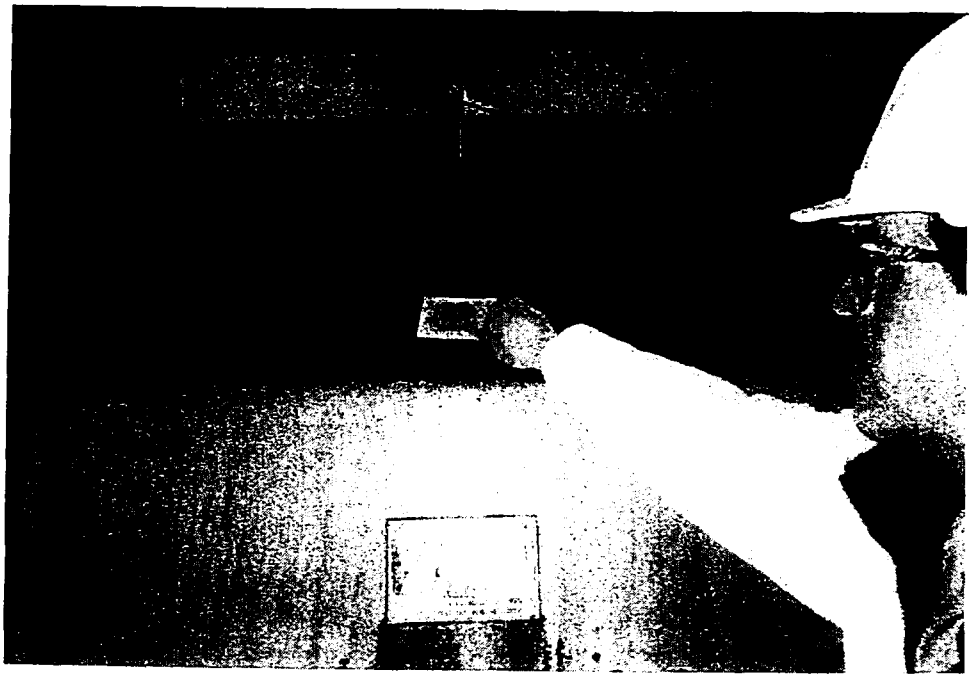
Photograph No.:	75	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-27 collected from the floor of the parts storage area		



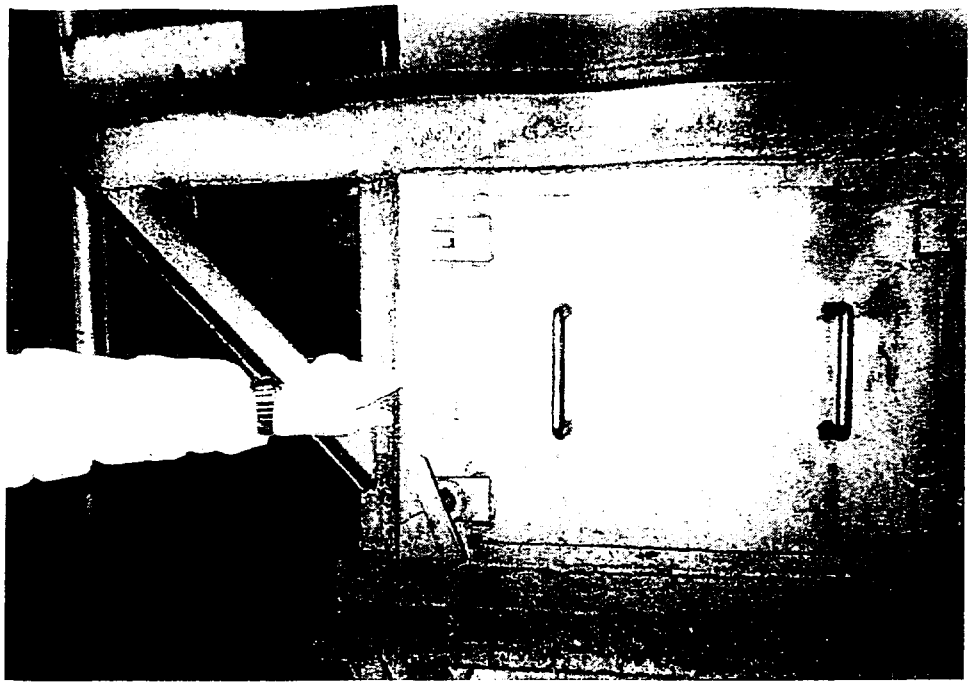
Photograph No.:	76	**Orientation:**	South
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-28 collected from the floor in the northeastern portion of the parts storage area about 100 feet southwest of the north boiler room		



Photograph No.:	77	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-29 collected from the floor of the upper level of the north boiler room		



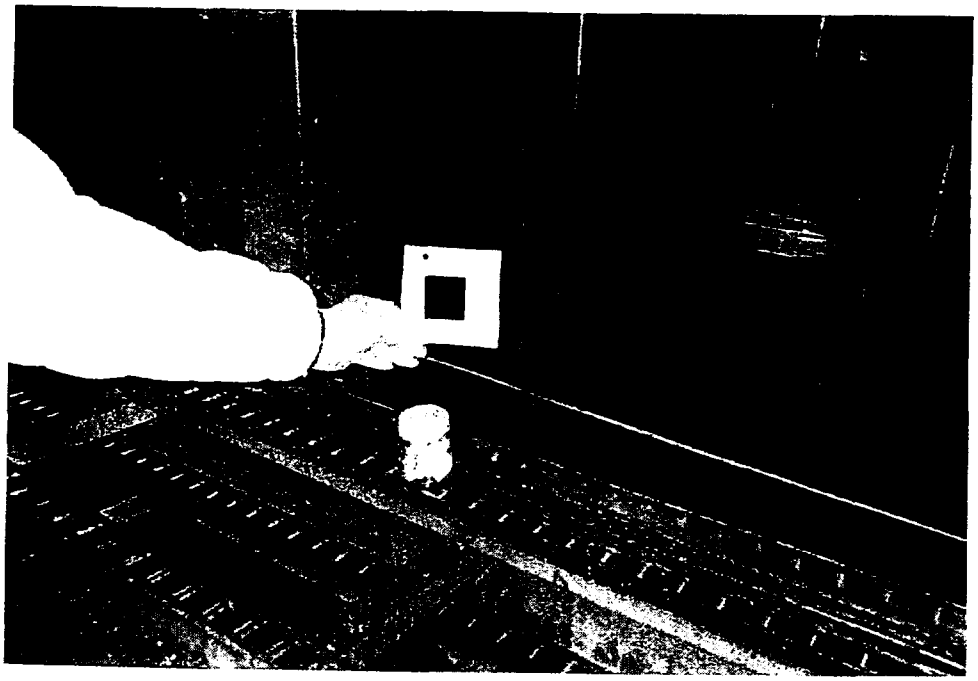
Photograph No.:	78	**Orientation:**	South
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-30 collected from the surface of the chip conveyor in the chip wringer room		



Photograph No.:	79	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-31 collected from the surface of the eastern chip wringer in the chip wringer room		

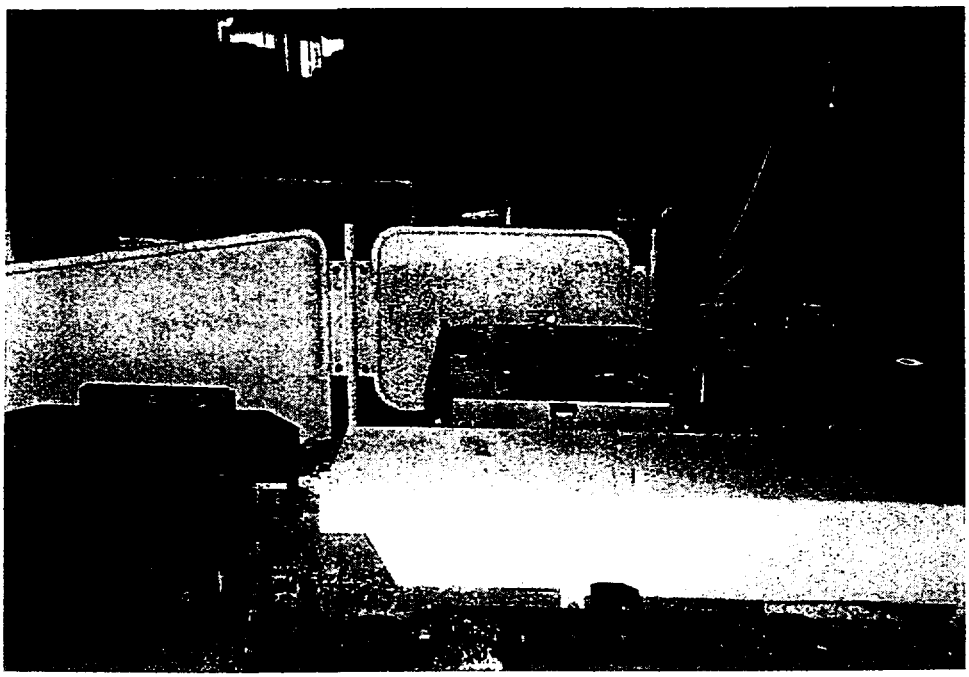
Photograph No.:	80	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-32 collected from the surface of the western chip wringer in the chip wringer room		

Photograph No.:	81	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-33 collected from the floor of the chip wringer room		

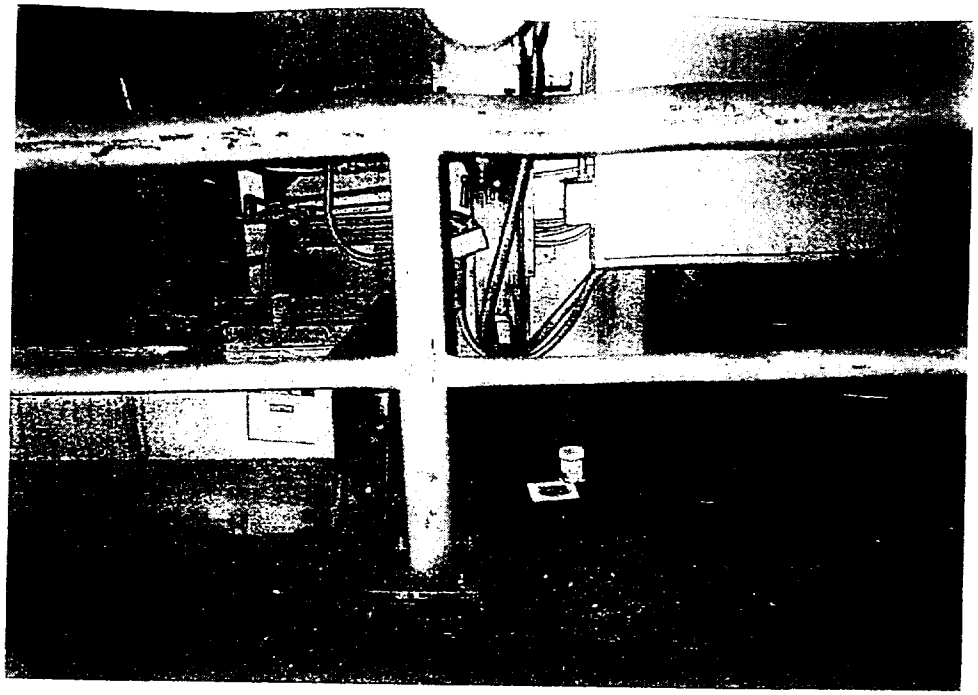


Photograph No.:	82	**Orientation:**	Northwest
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-34 collected from the surface of the machinery in the first half of the first row in the metal working area		

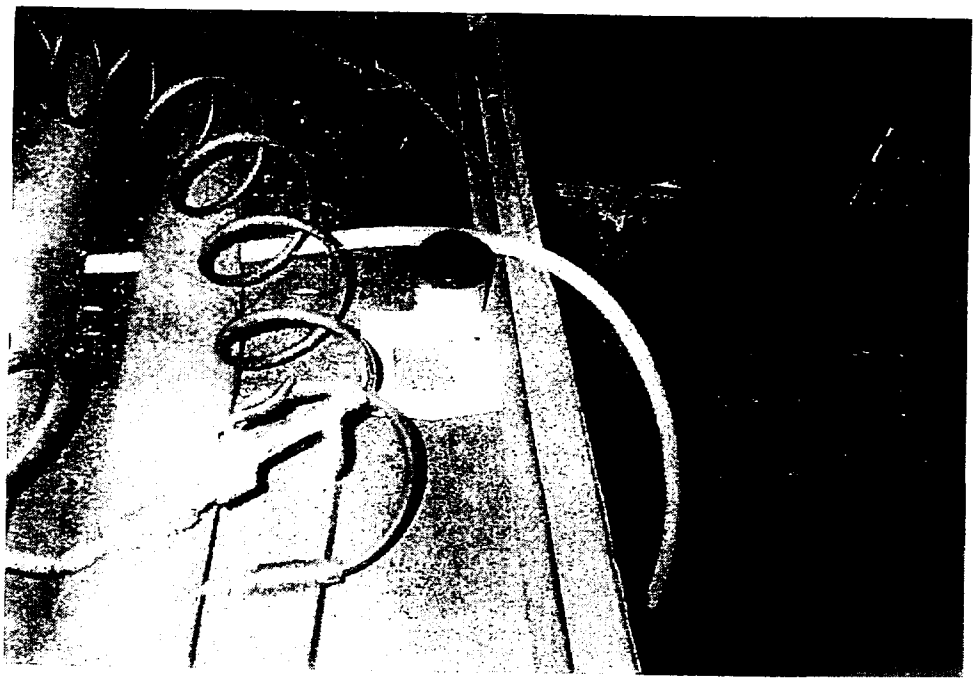
Photograph No.:	83	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-35 collected from the floor of the first half of the first row of machinery in the metal working area		



Photograph No.:	84	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-36 collected from the surface of the machinery in the first half of the second row in the metal working area		



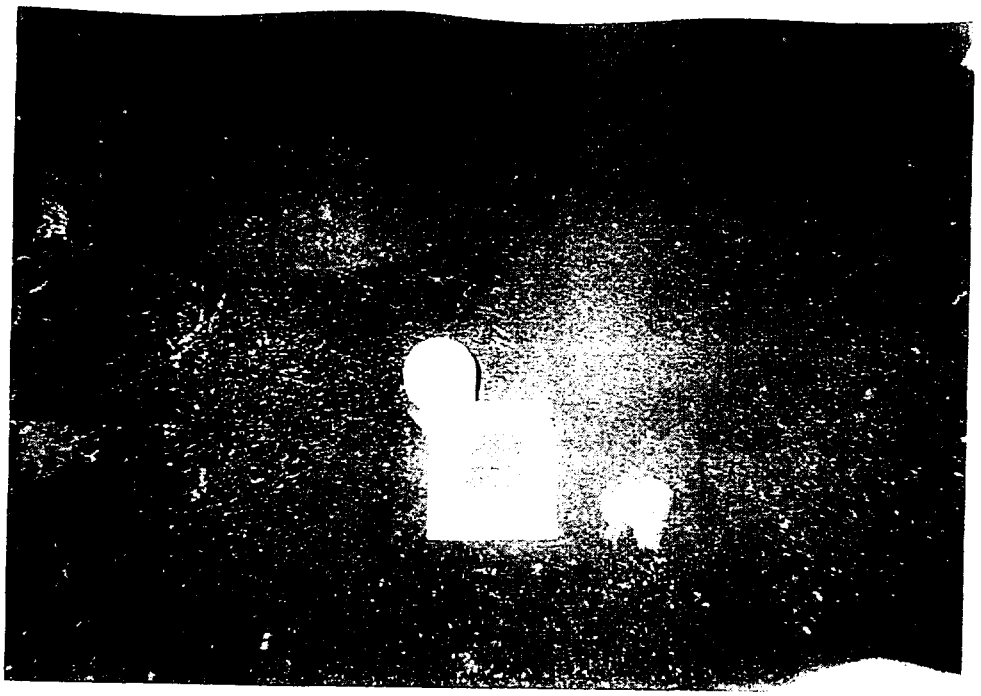
Photograph No.: 85
TDD No.: S05-0202-004
Location: OMC site
Subject: Composite wipe sample No. WIPE-37 collected from the floor of the first half of the second row of machinery in the metal working area
Orientation: West
Date: 05 Mar 02



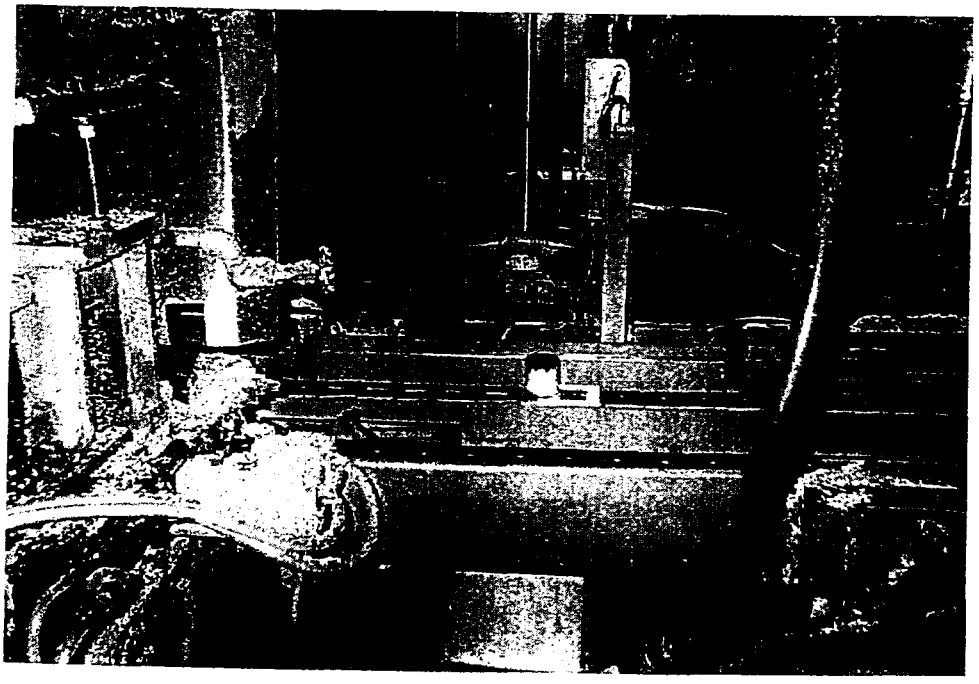
Photograph No.: 86
TDD No.: S05-0202-004
Location: OMC site
Subject: Composite wipe sample No. WIPE-38 collected from the surface of the machinery in the first half of the third row in the metal working area
Orientation: NA
Date: 05 Mar 02

Photograph No.:	87	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-39 collected from the floor of the first half of the third row of machinery in the metal working area		

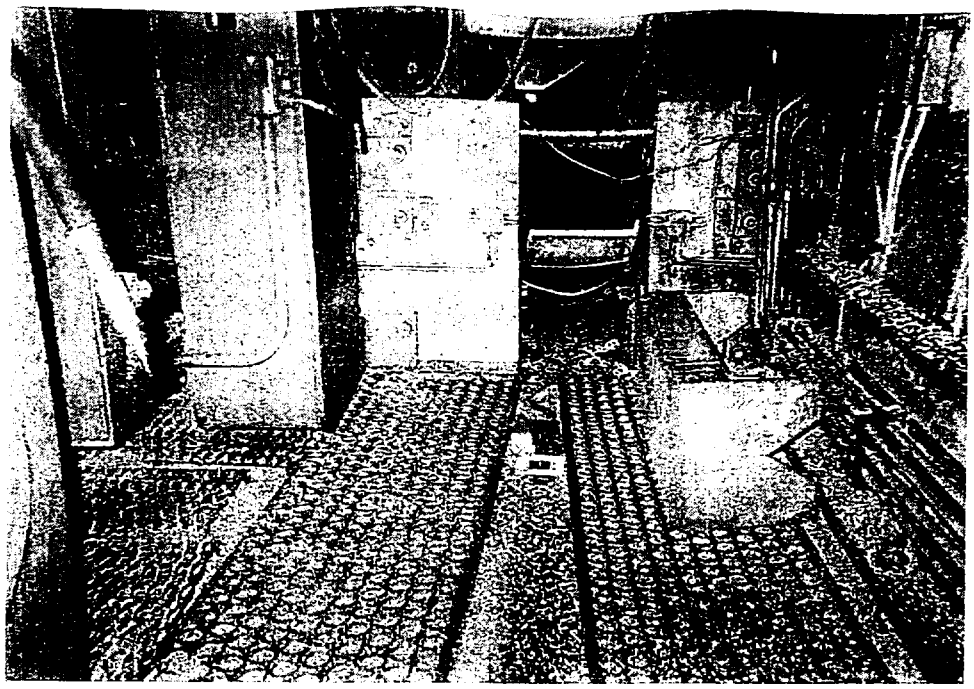
Photograph No.:	88	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-40 collected from the surface of the machinery in the first half of the fourth row in the metal working area		



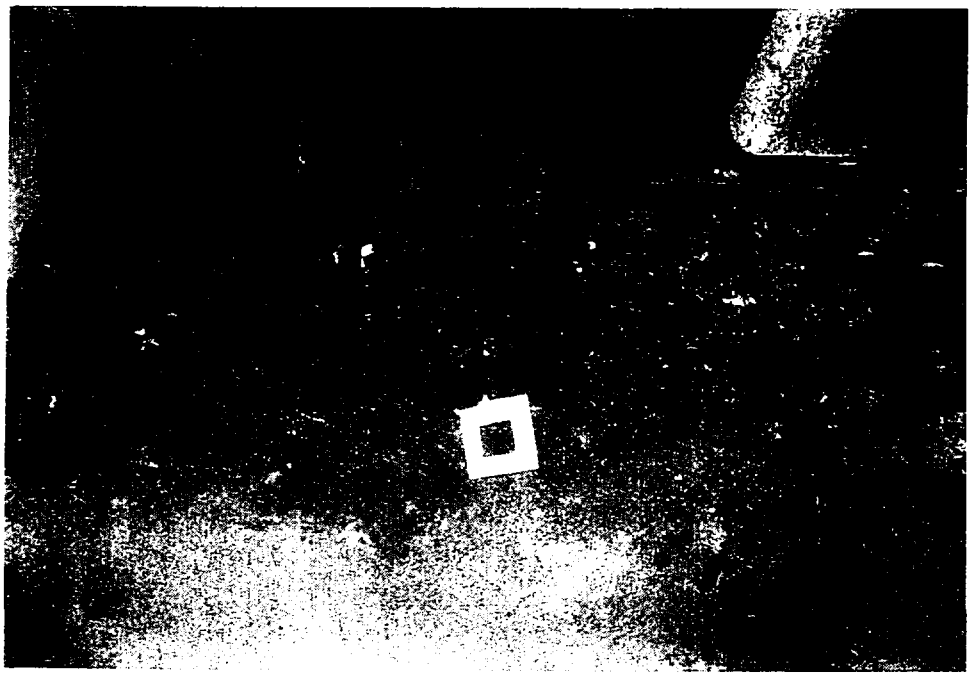
Photograph No.: 89 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Composite wipe sample No. WIPE-41 collected from the floor of the first half of the fourth row of machinery in the metal working area



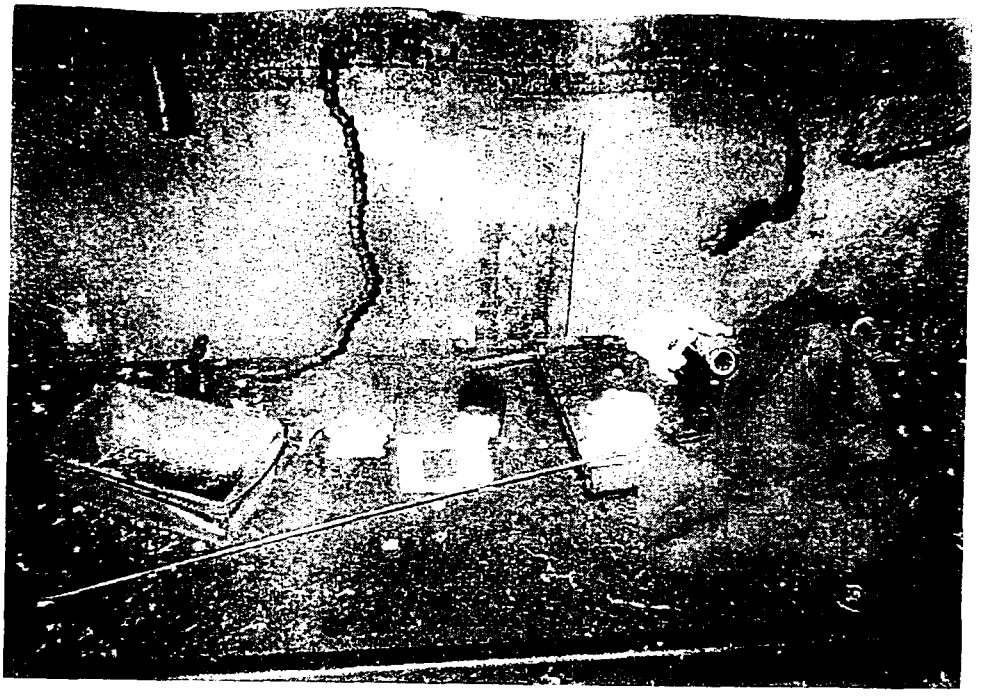
Photograph No.: 90 **Orientation:** North
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Composite wipe sample No. WIPE-42 collected from the surface of the machinery in the second half of the fourth row in the metal working area



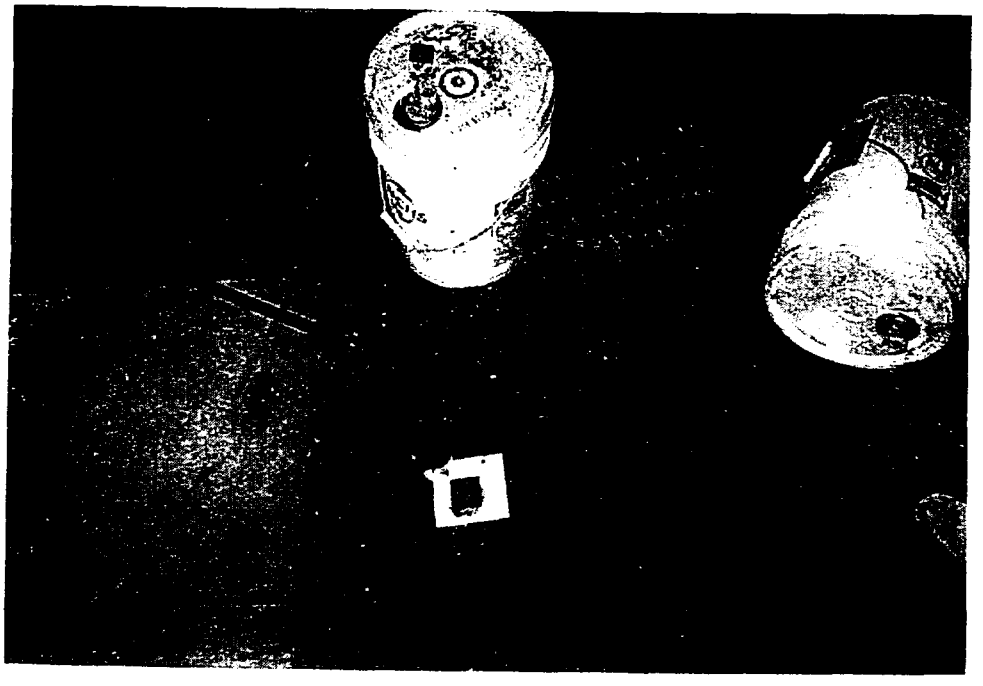
Photograph No.:	91	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-43 collected from the floor of the second half of the fourth row of machinery in the metal working area		



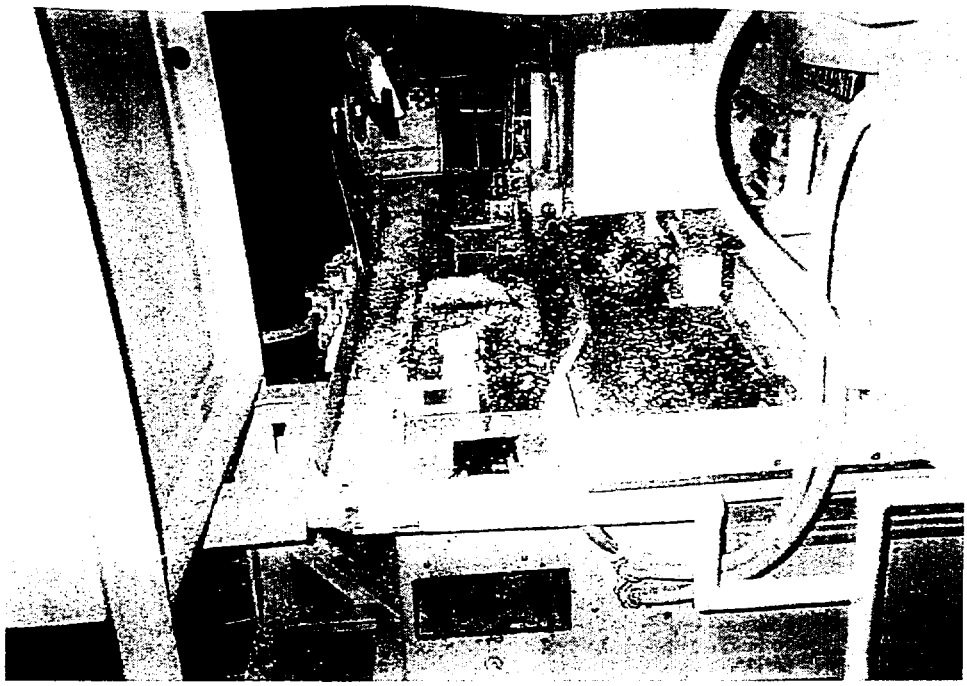
Photograph No.:	92	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-44 collected from the floor around the caustic/cleaner rinser south of the fourth row of machinery in the metal working area		



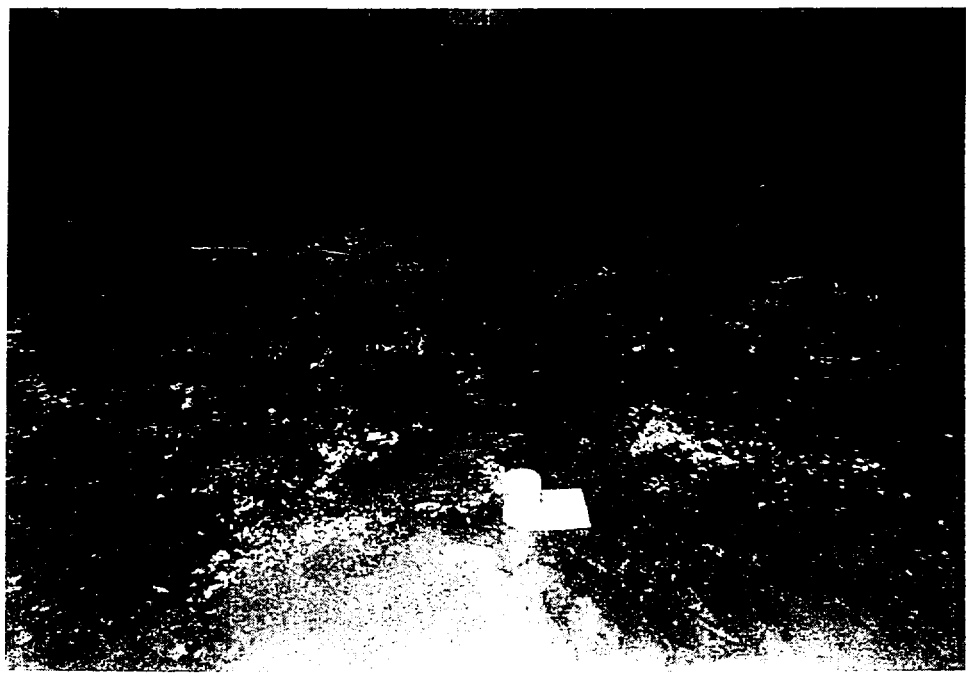
Photograph No.:	93	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-45 collected from the surface of machinery in the second half of the first row in the metal working area		



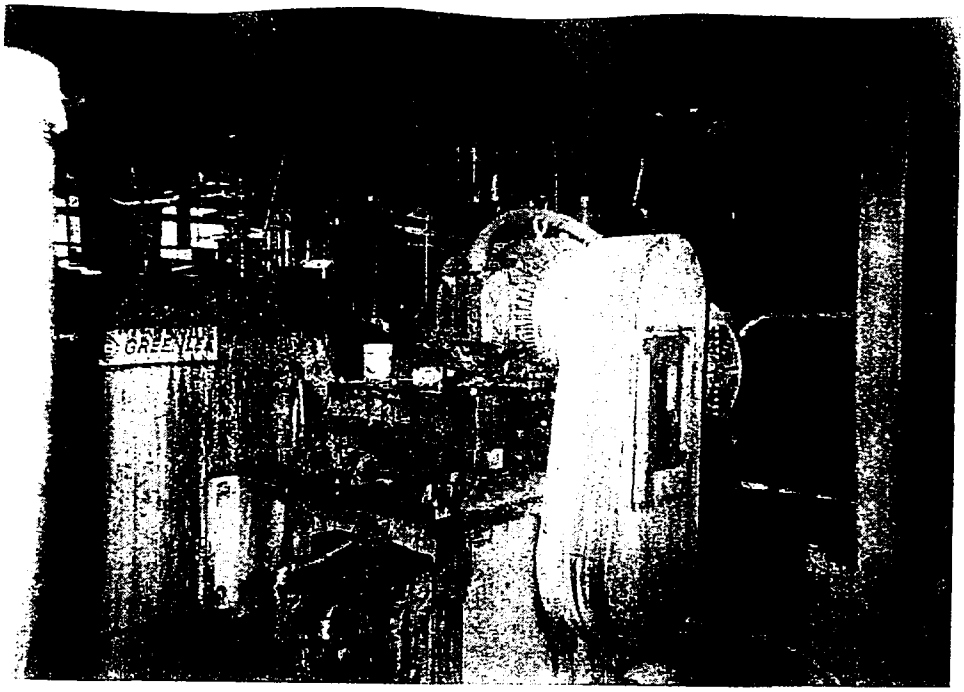
Photograph No.:	94	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-46 collected from the floor of the second half of the first row of machinery in the metal working area		



Photograph No.:	95	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-47 collected from the surface of the machinery in the second half of the second row in the metal working area		

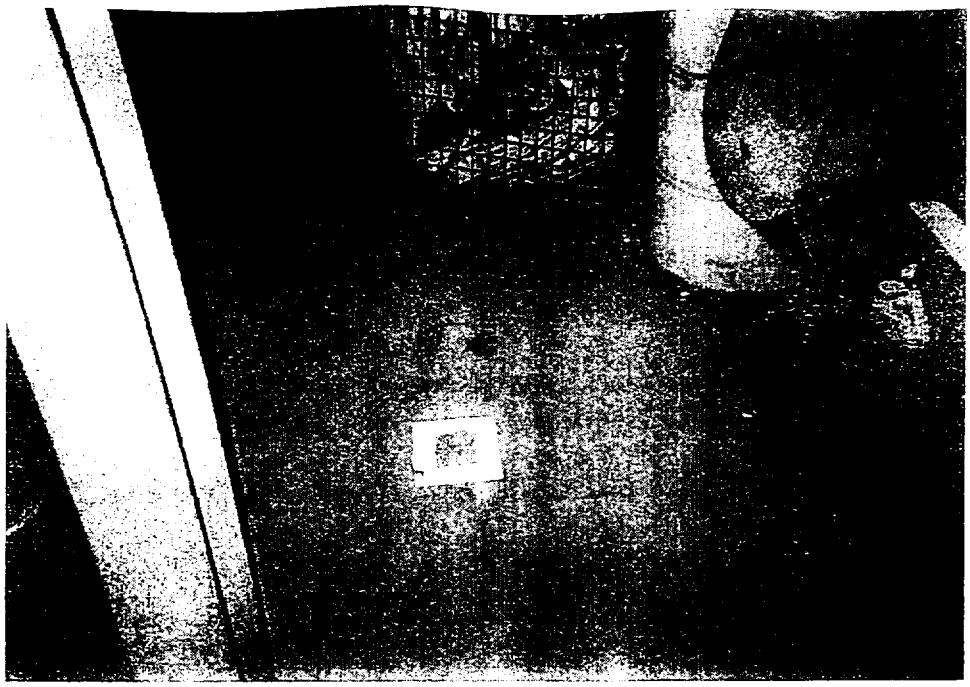


Photograph No.:	96	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-48 collected from the floor of the second half of the second row of machinery in the metal working area		

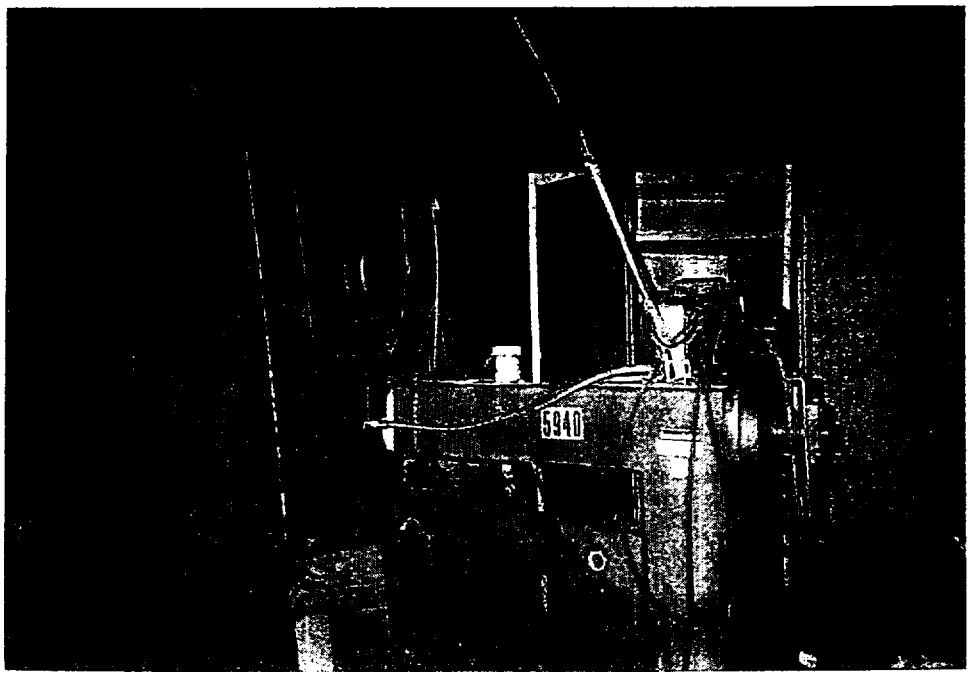


Photograph No.:	97	**Orientation:**	Southwest
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-49 collected from the surface of the machinery in the second half of the third row in the metal working area		

Photograph No.:	98	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-50 collected from the floor of the second half of the third row of machinery in the metal working area		

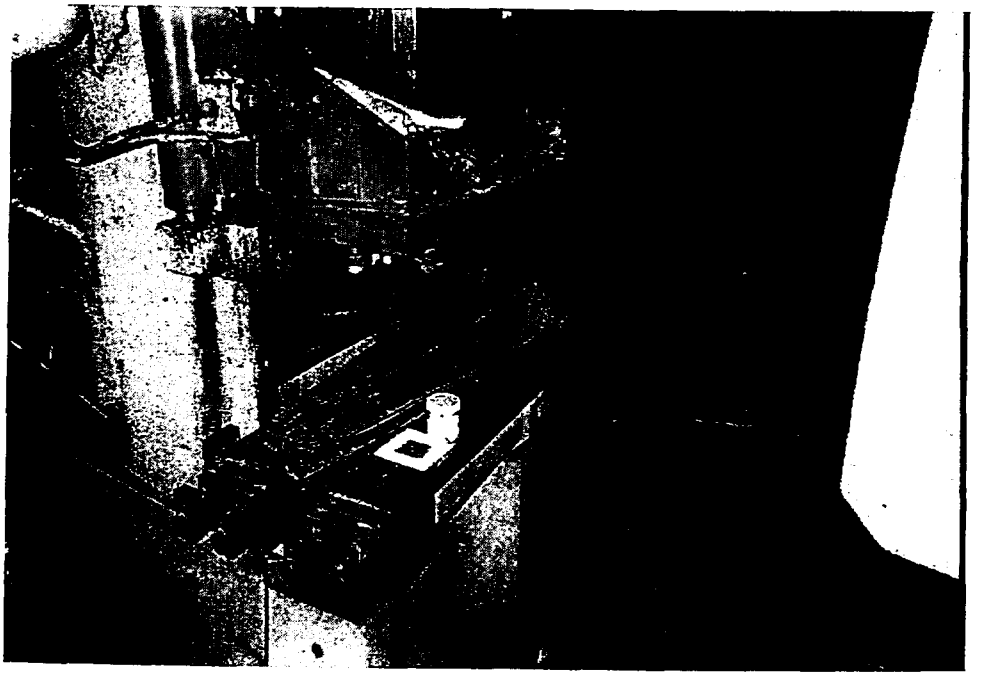


Photograph No.:	99	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-51 collected from the floor near the blasting unit southeast of the soluble oil tank in the grit blasting area		

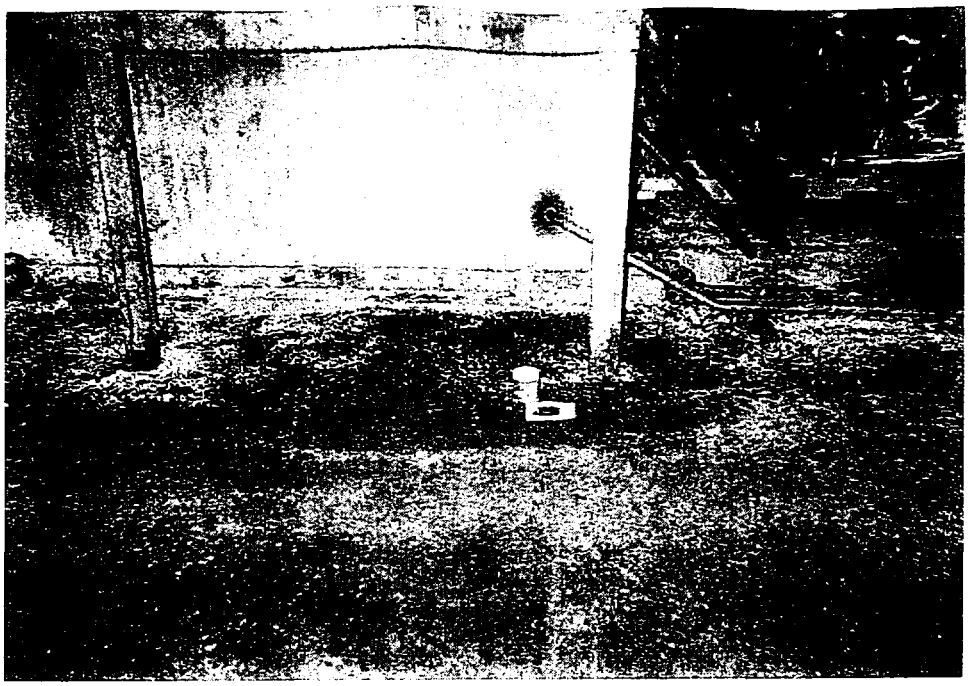


Photograph No.:	100	**Orientation:**	South
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-52 collected from the surface of the machines located in the southwest machinery quadrant of the new die cast area		

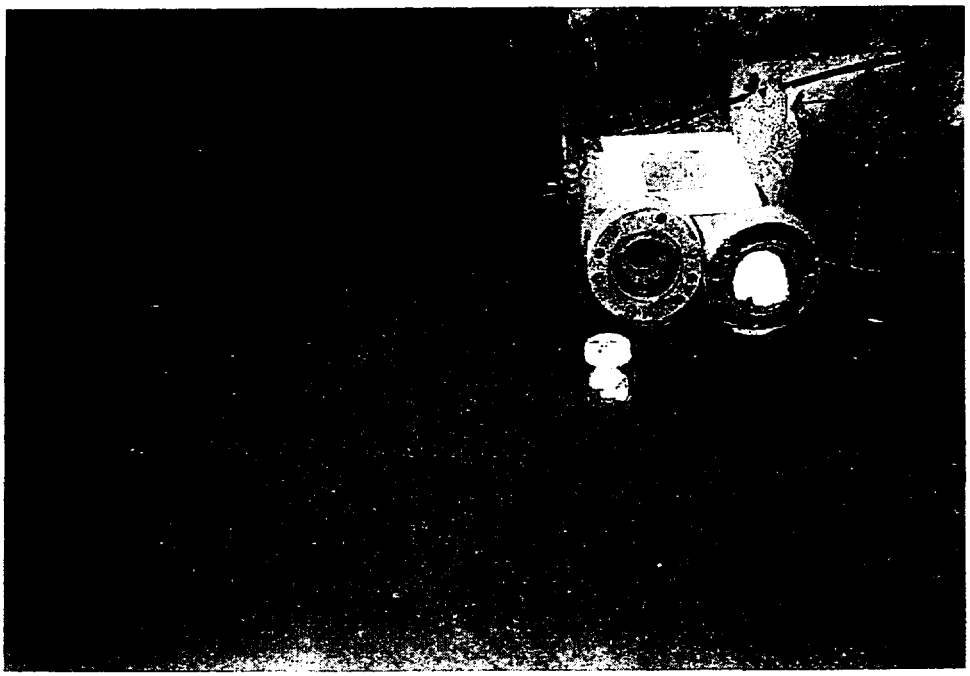
Photograph No.:	101	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-53 collected from the floor in the southwest machinery quadrant of the new die cast area		



Photograph No.:	102	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-54 collected from the surface of the machinery in the southeast machinery quadrant of the new die cast area		

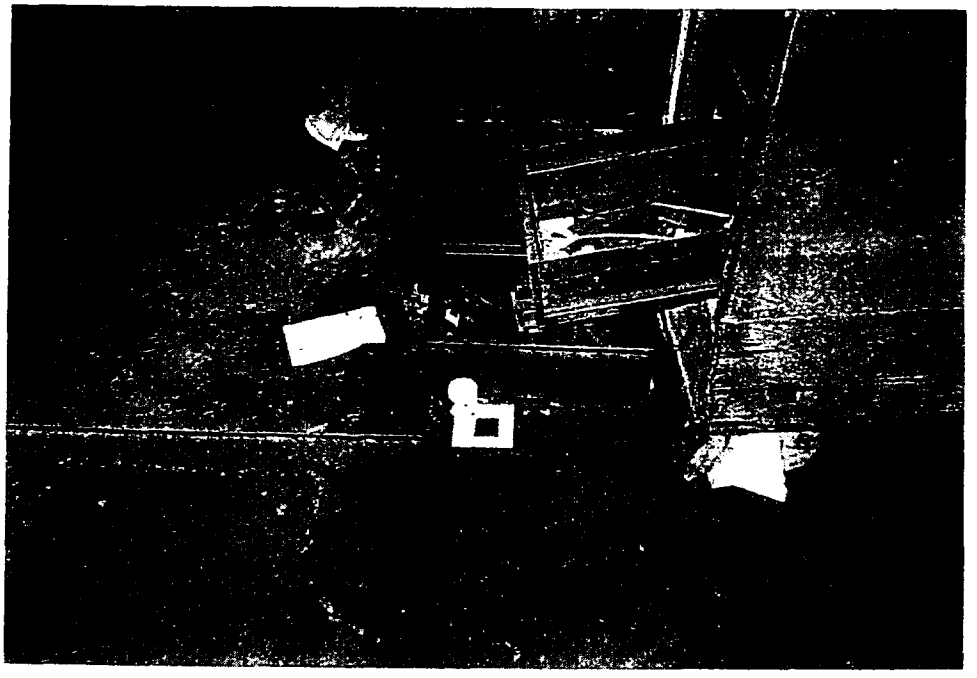


Photograph No.:	103	**Orientation:**	South
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-55 collected from the floor in the southeast machinery quadrant of the new die cast area		

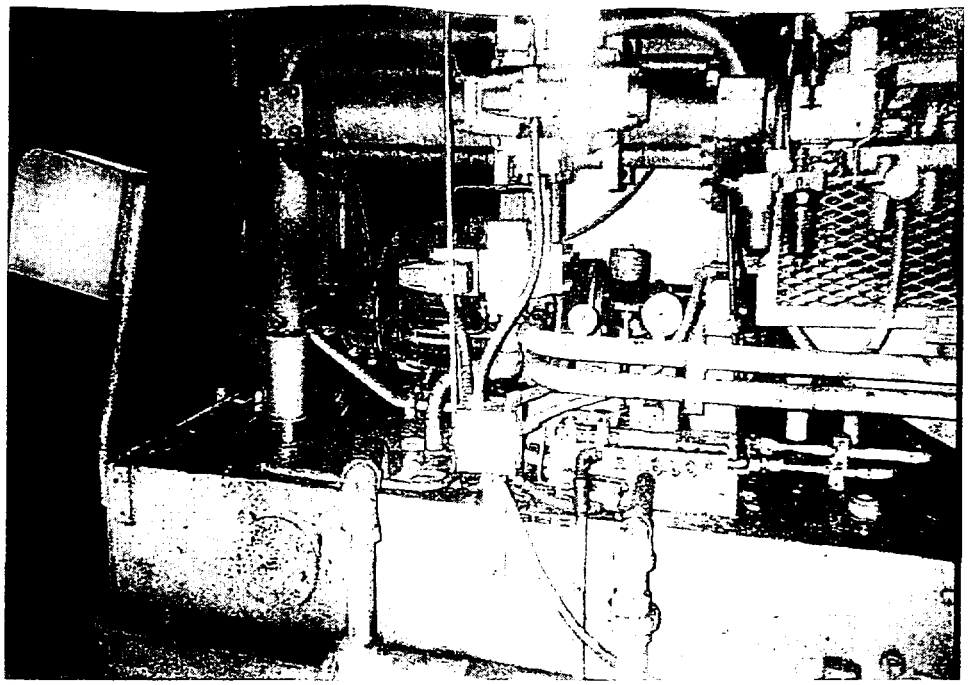


Photograph No.:	104	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-56 collected from the inside of a green pipe in the southeast machinery quadrant of the new die cast area		

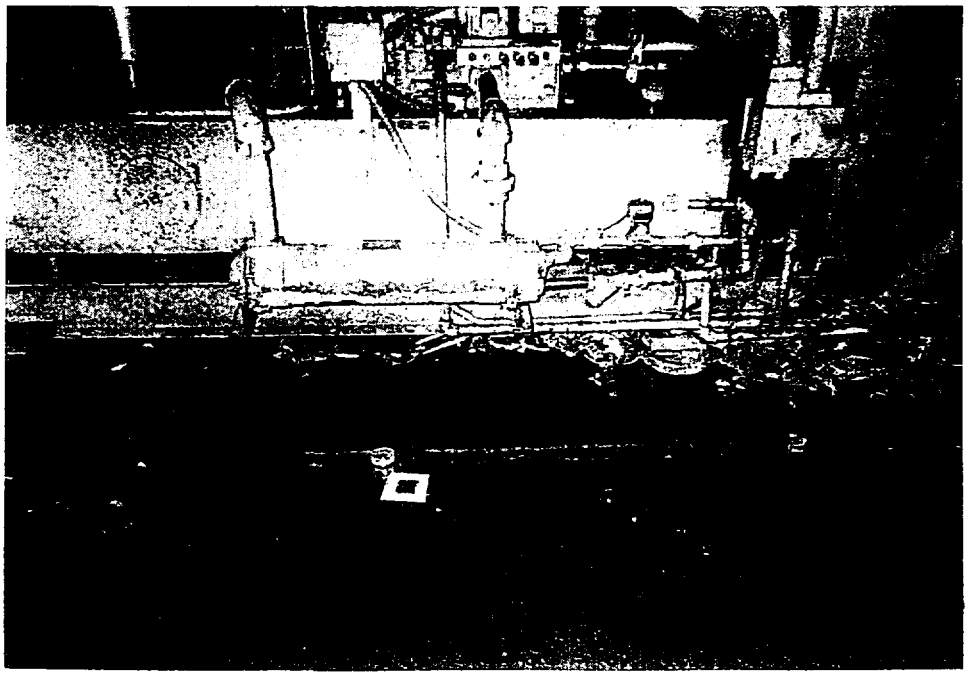
Photograph No.:	105	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-57 collected from the surface of the machinery in the northeast machinery quadrant of the new die cast area		



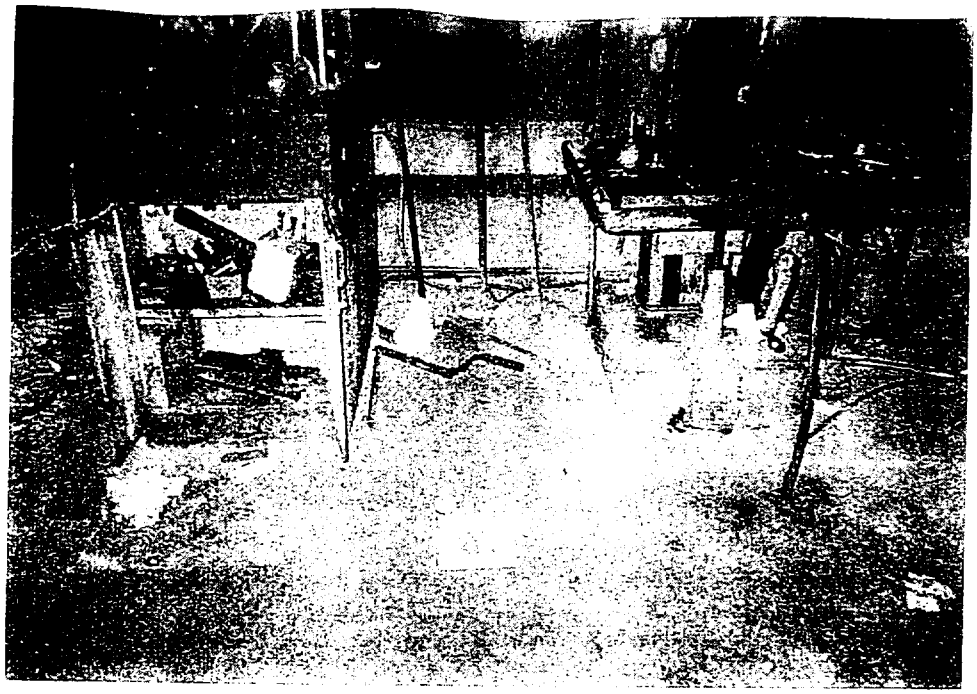
Photograph No.:	106	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-58 collected from the floor in the northeast machinery quadrant of the new die cast area		



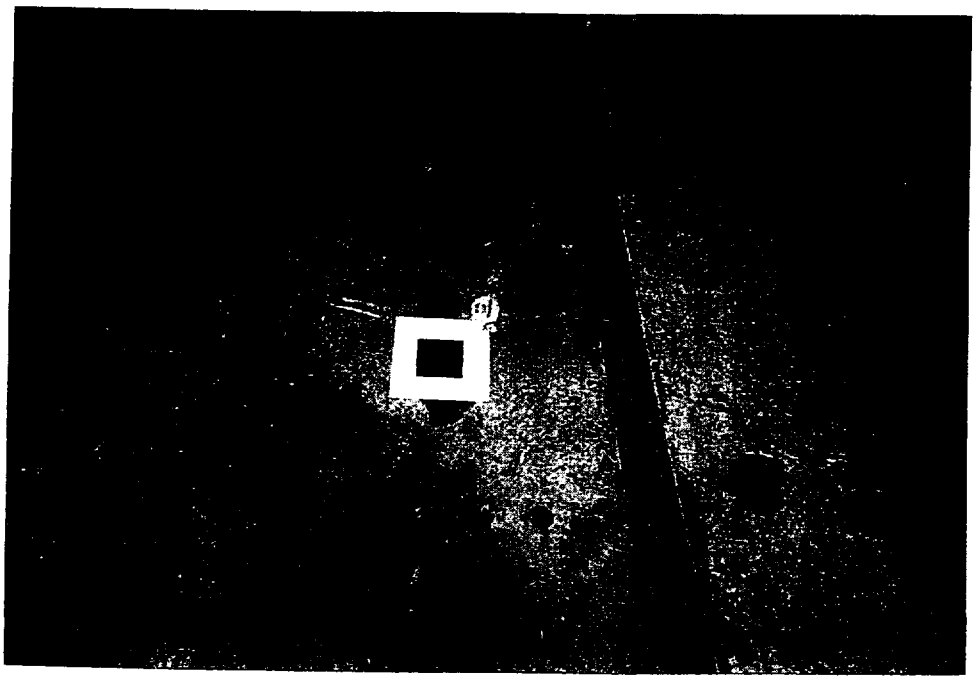
Photograph No.:	107	**Orientation:**	Southeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-59 collected from the surface of the machinery in the northwest machinery quadrant of the new die cast area		



Photograph No.:	108	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-60 collected from the floor in the northwest machinery quadrant of the new die cast area		

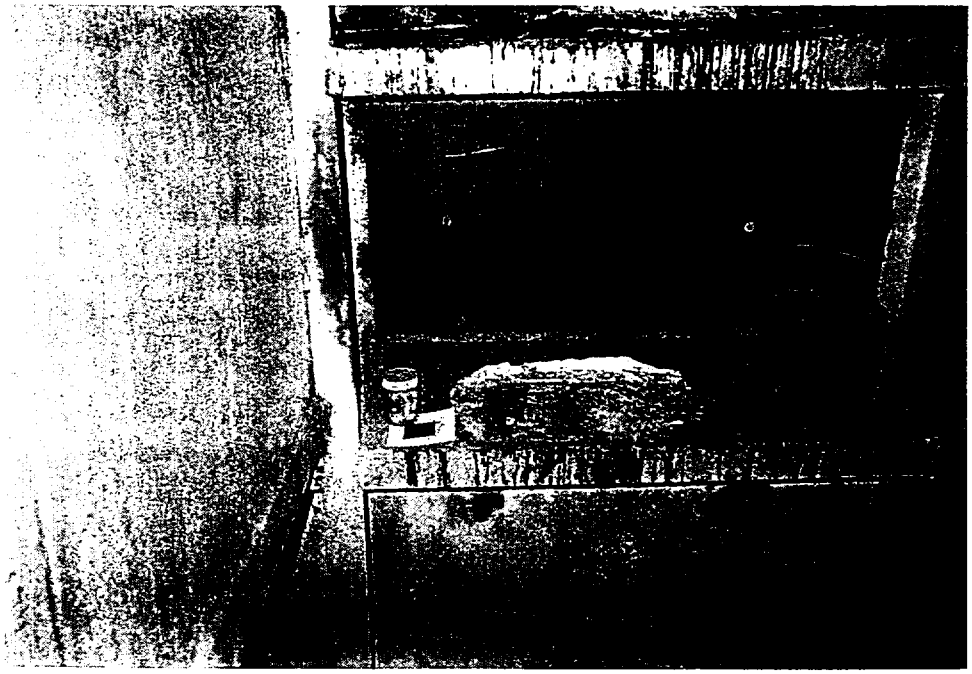


Photograph No.:	109	**Orientation:**	West
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-61 collected from the floor west of the aluminum smelter		



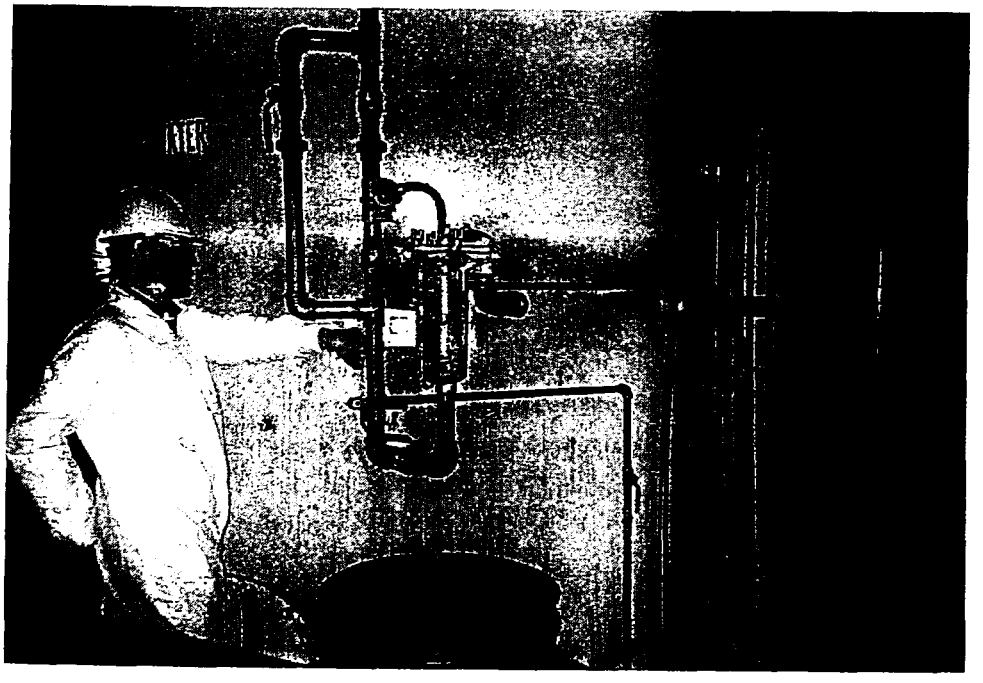
Photograph No.:	110	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-62 collected from the floor west of the aluminum smelter		

Photograph No.: 111 **Orientation:** East
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Wipe sample No. WIPE-63 collected from the floor southeast of the aluminum smelter

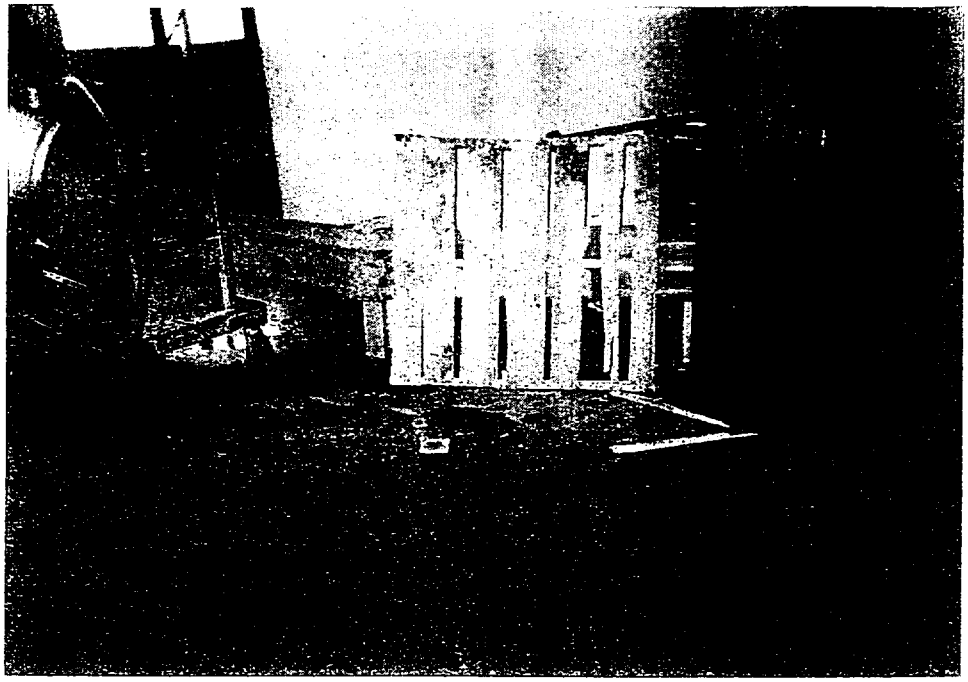


Photograph No.: 112 **Orientation:** Southeast
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Composite wipe sample No. WIPE-64 collected from the surface of the boiler northeast of the aluminum smelter

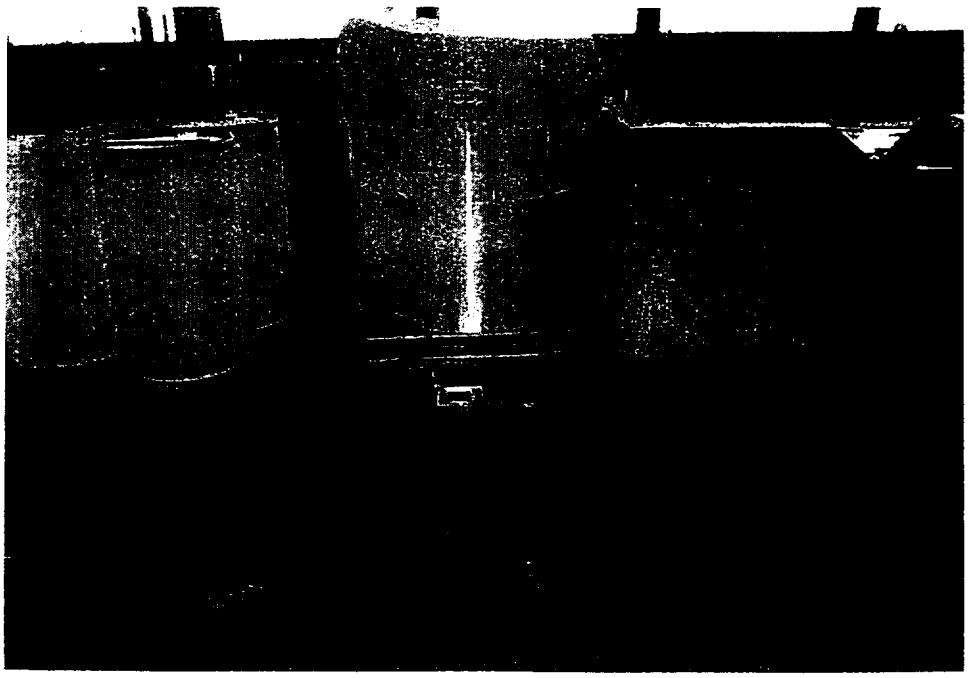
Photograph No.: 113 **Orientation:** East
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Composite wipe sample No. WIPE-65 collected from the floor east of the boiler northeast of the aluminum smelter



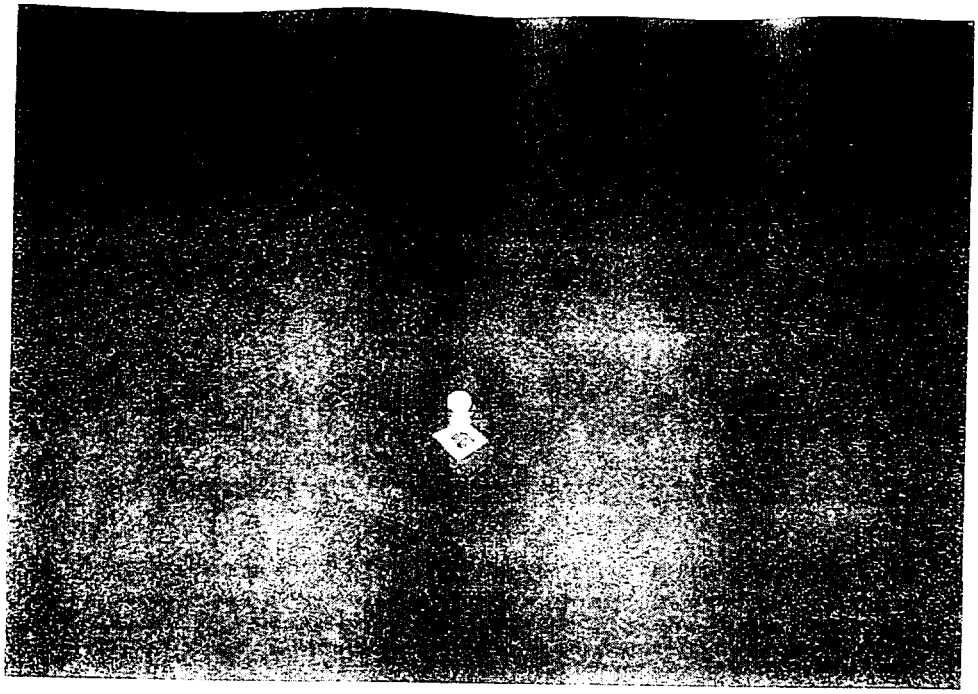
Photograph No.: 114 **Orientation:** North
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Composite wipe sample No. WIPE-66 collected from the surface of the ASTs in the new die cast area



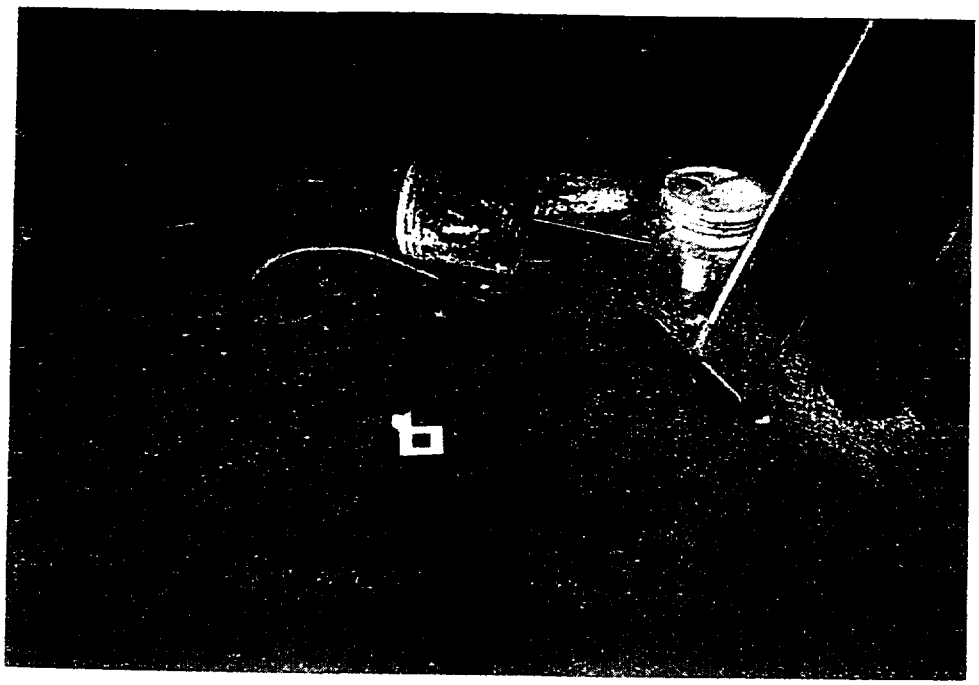
Photograph No.:	115	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-67 collected from the floor outside of the AST containment in the new die cast area		



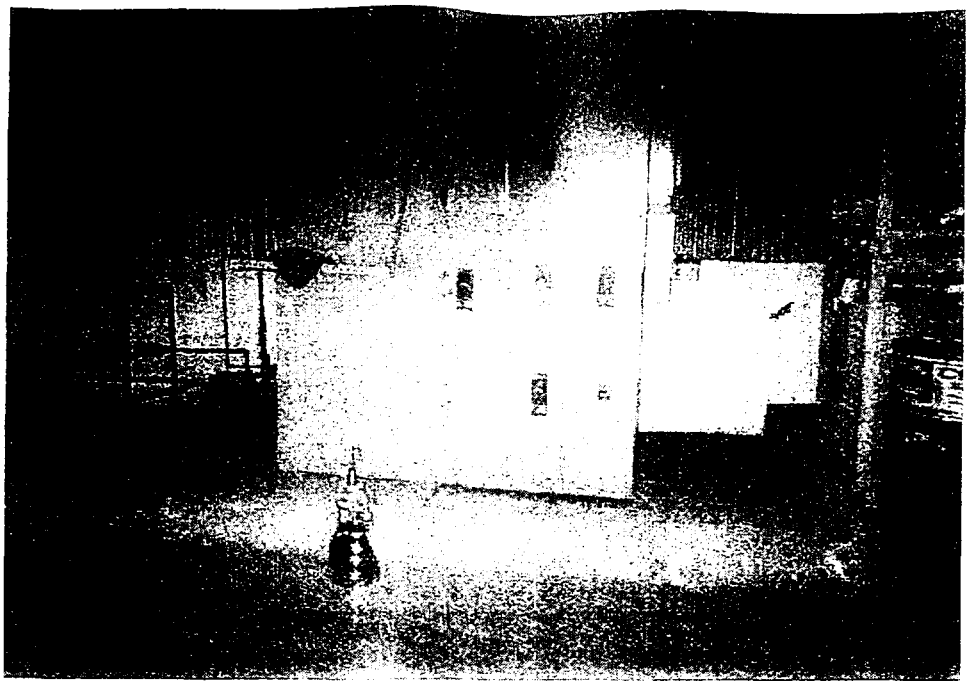
Photograph No.:	116	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Wipe sample No. WIPE-68 collected from the floor west of the AST area		



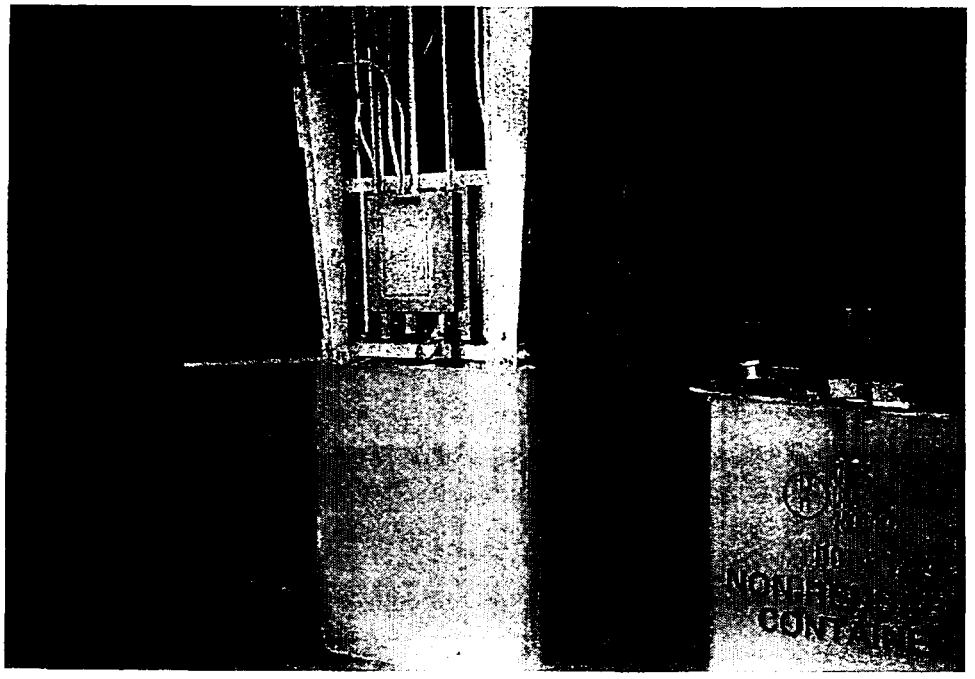
Photograph No.:	117	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-69 collected from the floor west of the AST area		



Photograph No.:	118	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Composite wipe sample No. WIPE-70 collected from the floor in the jeep repair area		

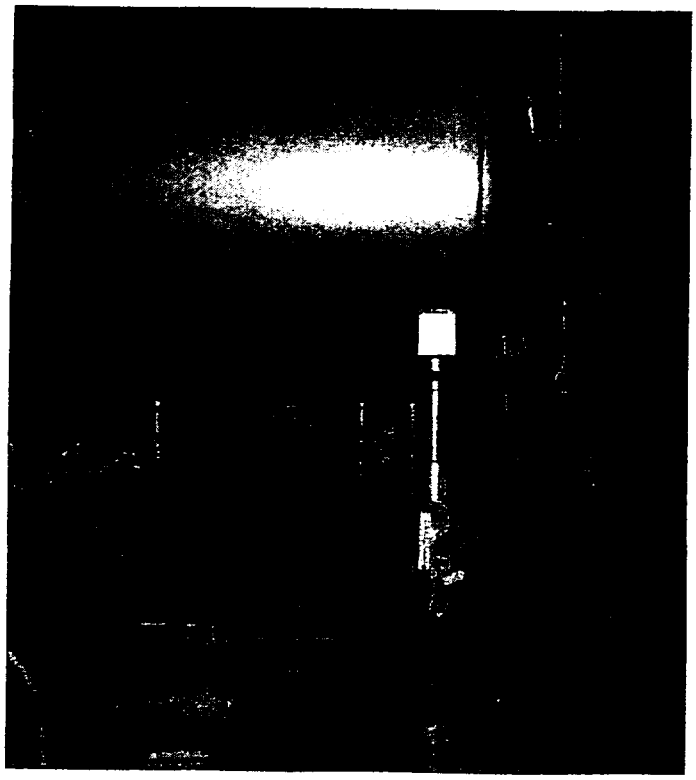


Photograph No.:	119	**Orientation:**	Northwest
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Volatile organic compound (VOC) air sample No. AIR-01 collected from the chemical storage building		



Photograph No.:	120	**Orientation:**	Southeast
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Polychlorinated biphenyl (PCB) air sample No. AIR-02 collected from the chemical storage building		

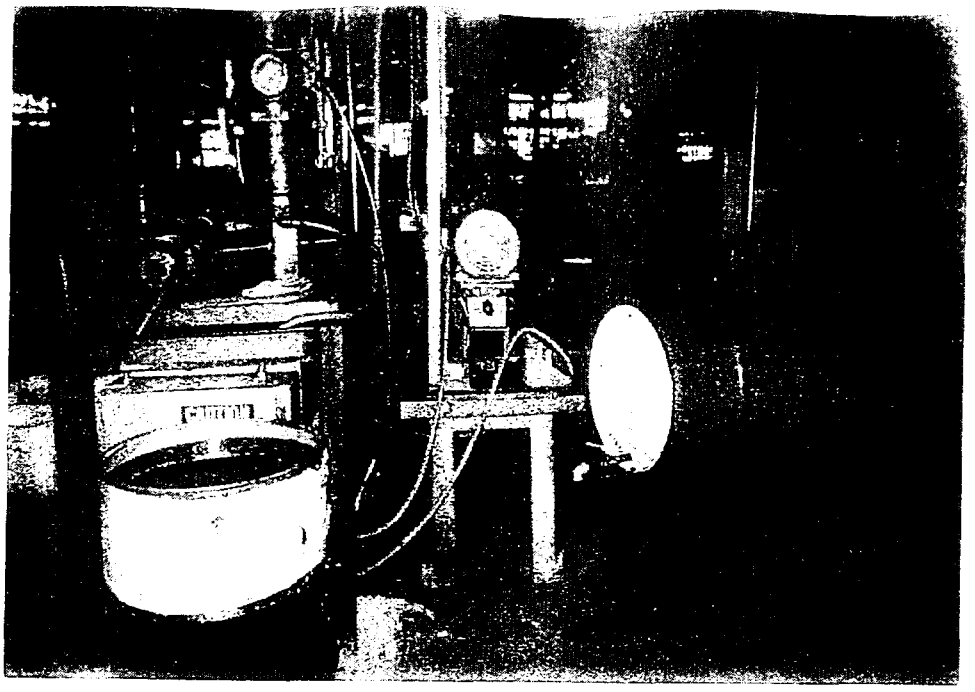
Photograph No.: 121 **Orientation:** East
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: PCB air sample No. AIR-03 collected from the office off of the old die cast area



Photograph No.: 122 **Orientation:** East
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: PCB air sample No. AIR-04 collected from the north boiler room

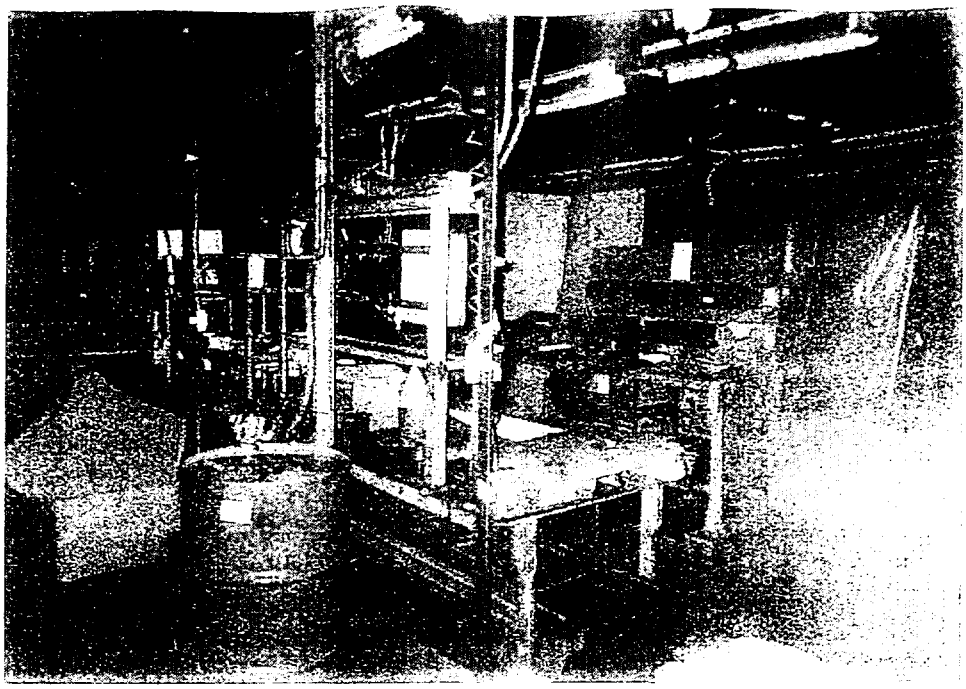
Photograph No.:	123	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	VOC air sample No. AIR-05 and PCB air sample No. AIR-06 collected from the chip wringer room		

Photograph No.:	124	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	VOC air sample No. AIR-07 collected from the paint spray booth room		

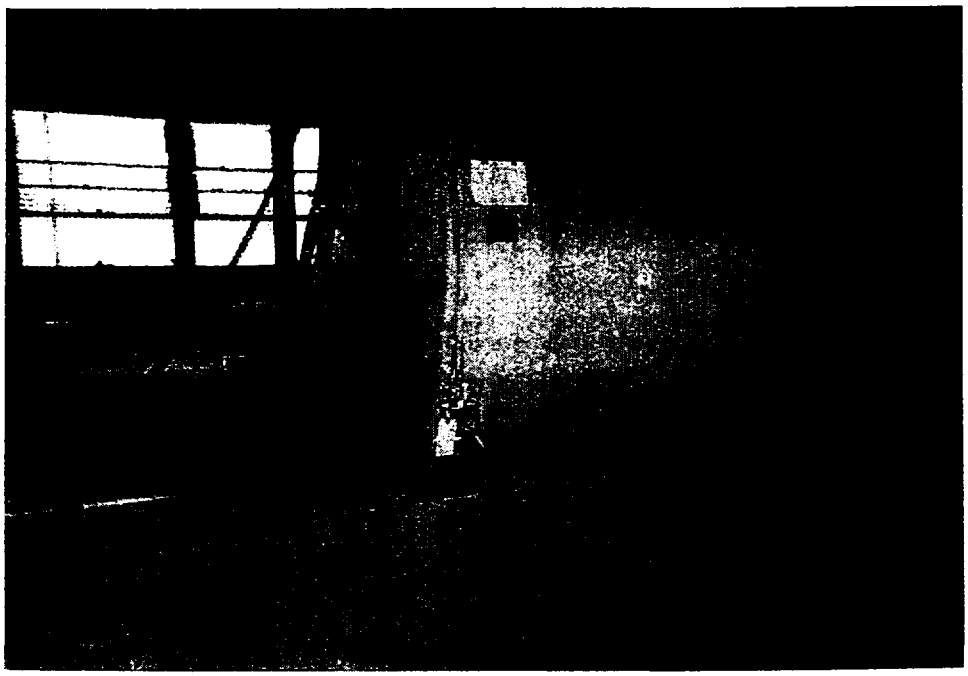


Photograph No.: 125 **Orientation:** South
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: PCB air sample No. AIR-08 collected from the eastern third of the area containing machinery in the metal working area

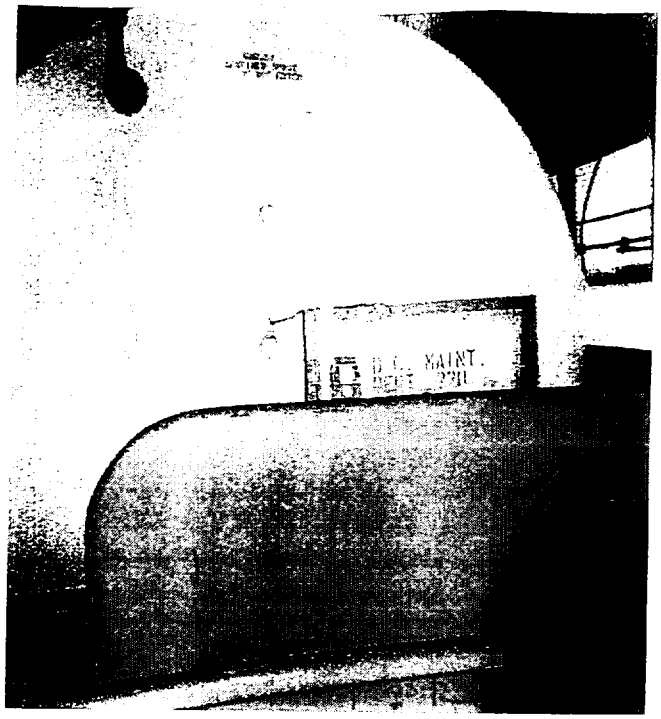
Photograph No.: 126 **Orientation:** East
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: VOC air sample No. AIR-09 collected from the center of the metal working area



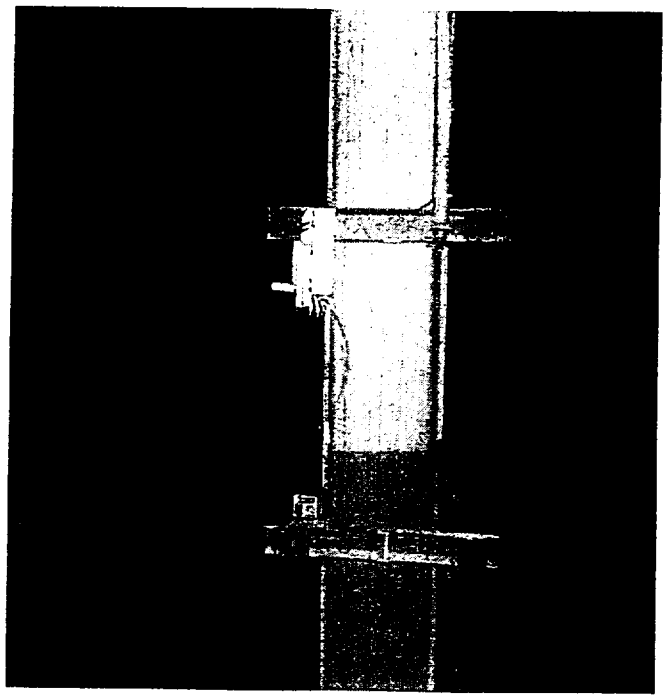
Photograph No.:	127	**Orientation:**	East
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	PCB air sample No. AIR-10 collected from the western third of the area containing machinery in the metal working area		



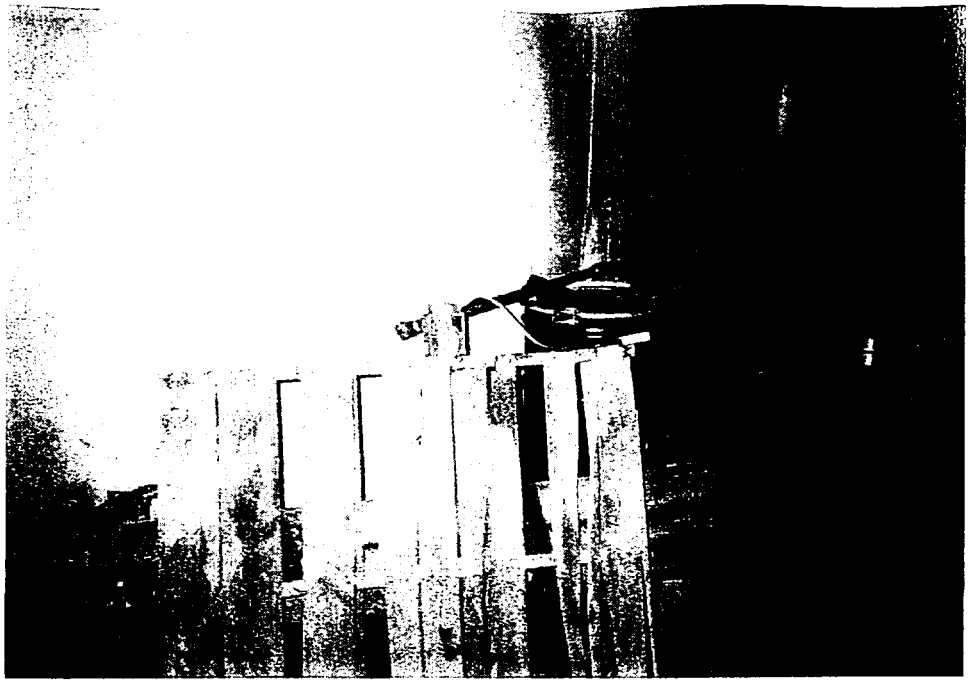
Photograph No.:	128	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	VOC air sample No. AIR-11 collected from near the soluble oil tank in the grit blasting area		



Photograph No.: 129 **Orientation:** West
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: PCB air sample No. AIR-12 collected from near the soluble oil tank in the grit blasting area



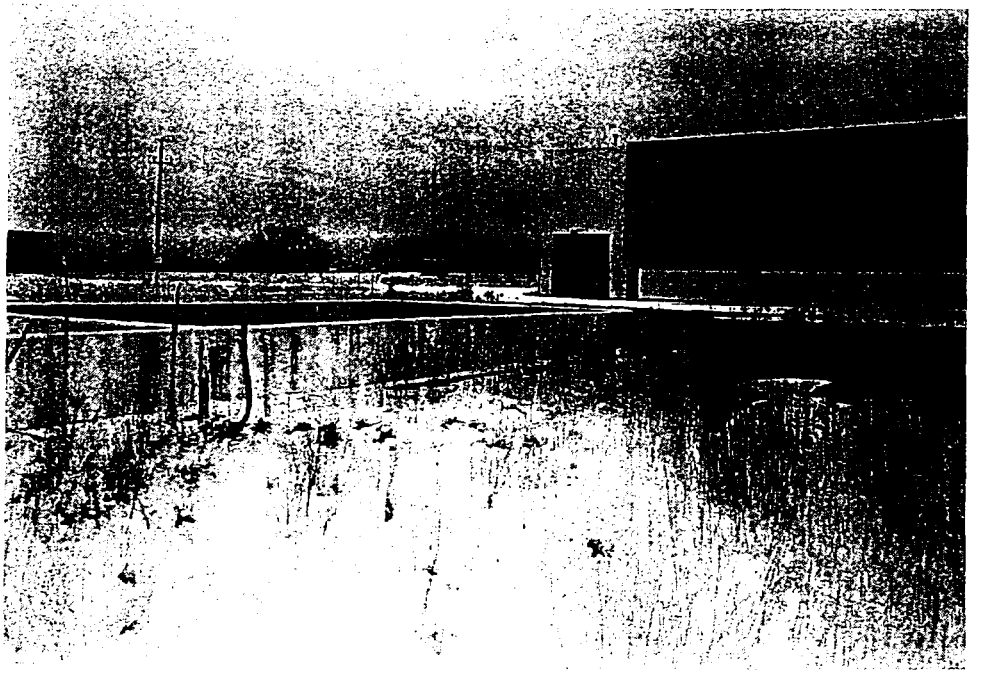
Photograph No.: 130 **Orientation:** South
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: PCB air sample No. AIR-13 collected from near the aluminum smelter in the new die cast area



Photograph No.:	131	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	PCB air sample No. AIR-14 collected from near the ASTs in the new die cast area		

Photograph No.:	132	**Orientation:**	Southwest
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Field VOC blank air sample No. AIR-BLK-01 collected in parking lot outside Plant 2		

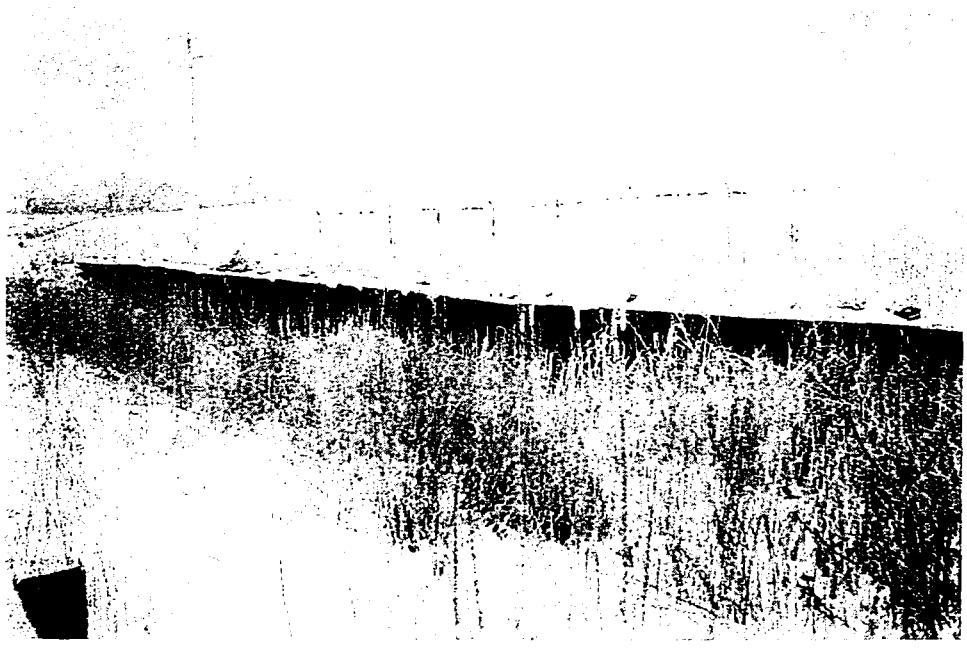
Photograph No.:	133	**Orientation:**	Southwest
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Soil sample No. SS-01 collected near hopper outside of the chip wringer room		



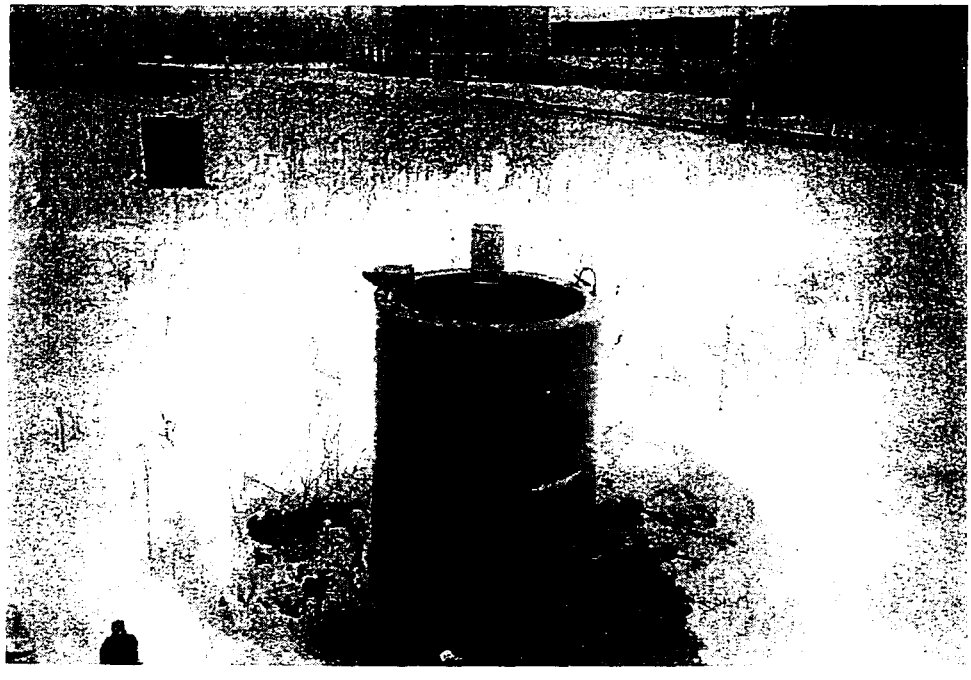
Photograph No.:	134	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Soil sample No. SS-02 and duplicate sample No. SS-02D collected from the former PCB AST area		

Photograph No.:	135	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sediment sample No. SD-01 collected from the north ditch about 40 feet west of the North Shore Sanitary District discharge		

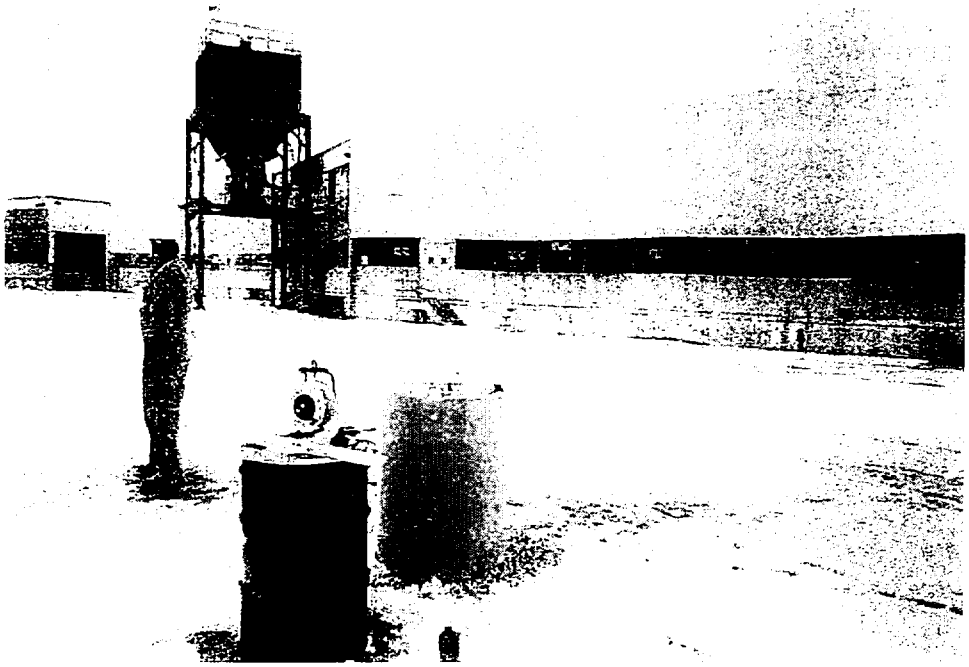
Photograph No.:	136	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sediment sample No. SD-02 collected from near the center of the north ditch		



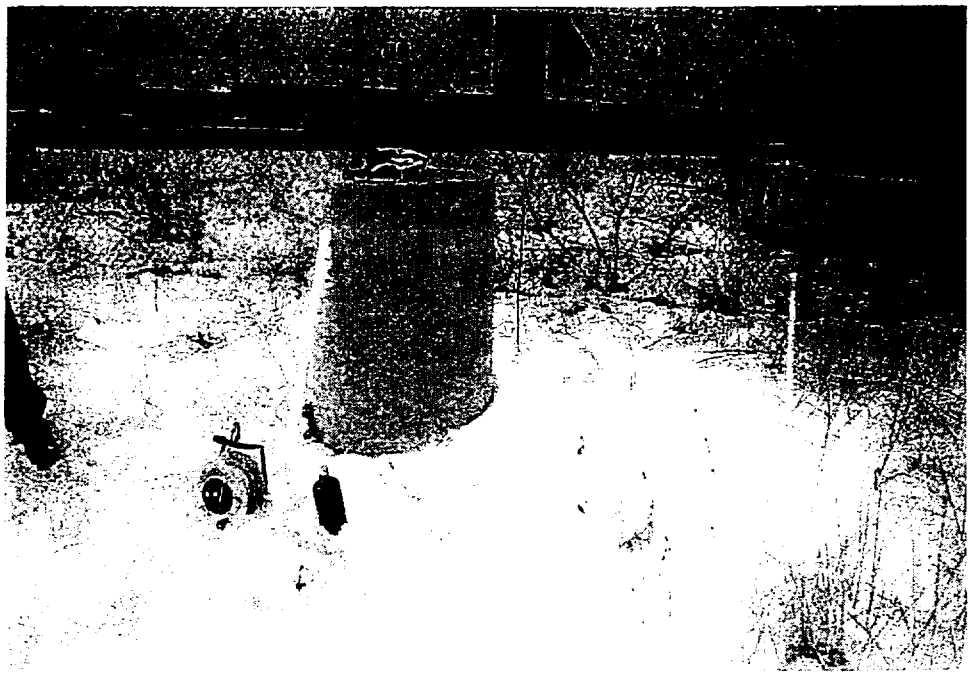
Photograph No.:	137	**Orientation:**	Northwest
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sediment sample No. SD-03 collected from the north ditch about 60 feet east of the beginning of the ditch		



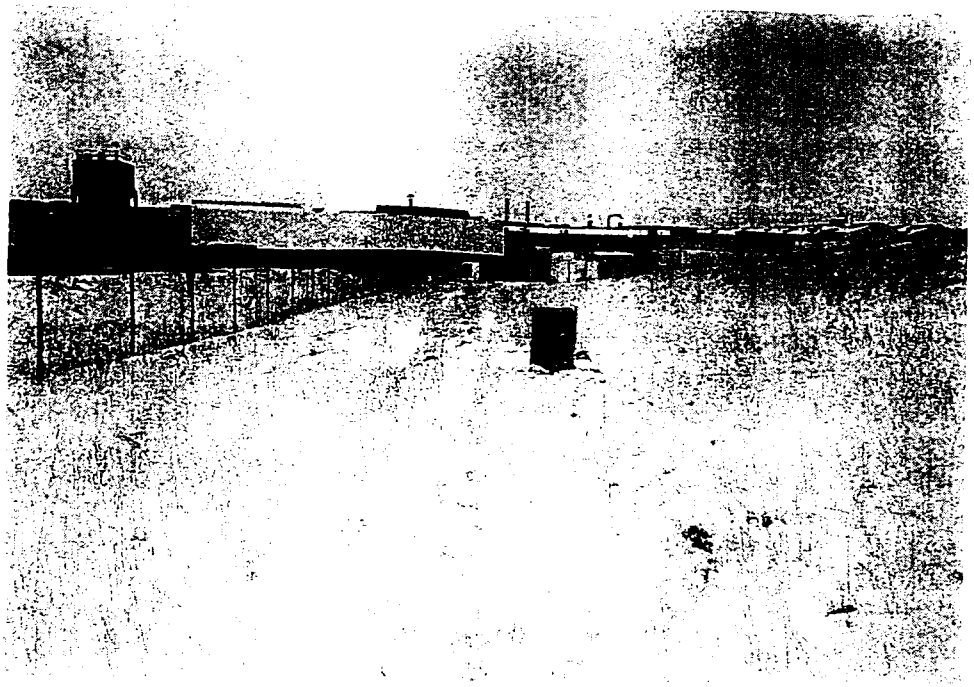
Photograph No.:	138	**Orientation:**	Southeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Groundwater sample No. MW-06 collected from monitoring well MW-06 near the northeast corner of Plant 2		



Photograph No.:	139	**Orientation:**	Southeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Groundwater sample No. MW-09 collected from monitoring well MW-09 west of the hopper outside of the chip wringer room		

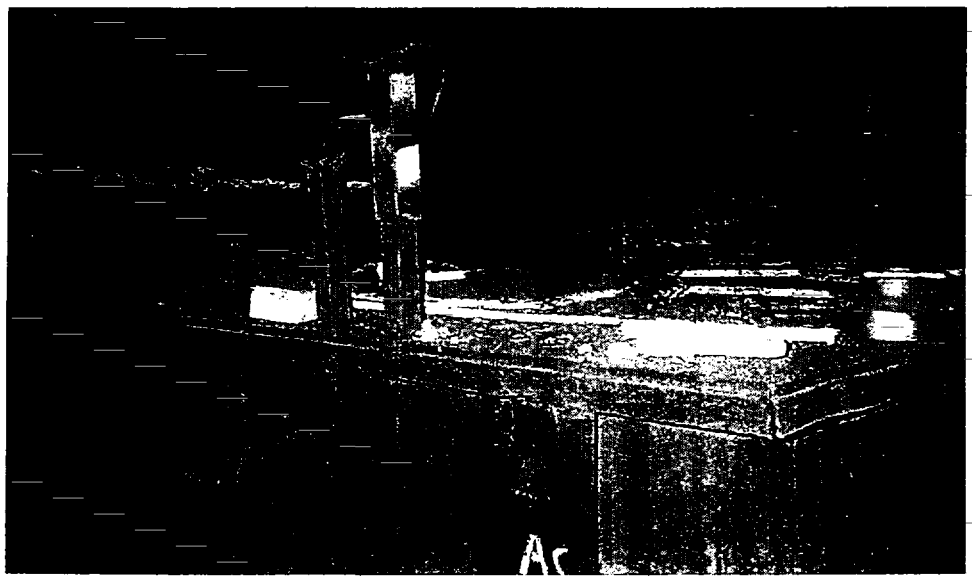


Photograph No.:	140	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Groundwater sample No. MW-11 collected from monitoring well MW-11 northwest of Plant 2		



Photograph No.:	141	**Orientation:**	South
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Groundwater sample No. MW-12 collected from monitoring well MW-12 north of Plant 2		

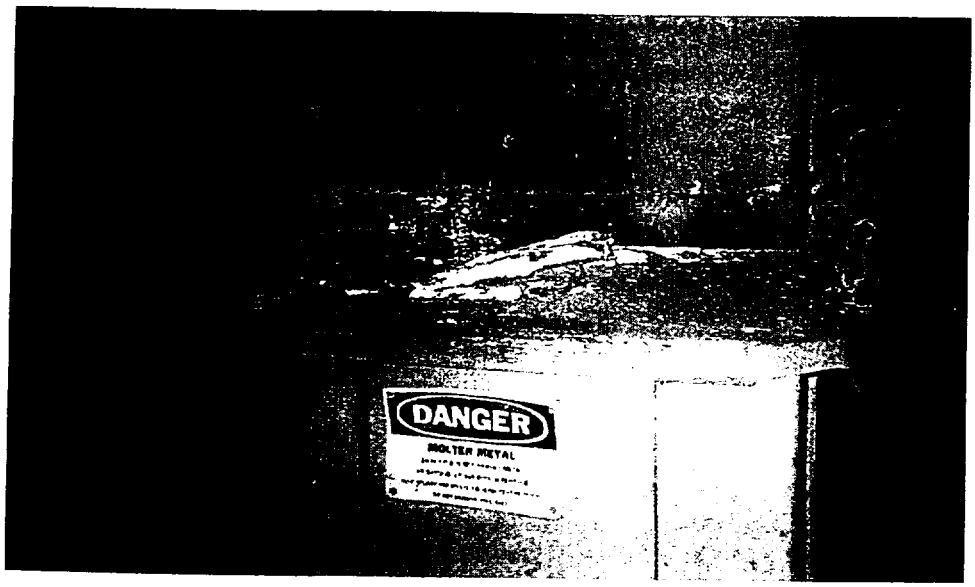
Photograph No.: 142 **Orientation:** NA
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Suspected asbestos containing material (SACM) samples No. 3a and b of white, fluffy thermal system insulation collected from a boiler in the new die cast area



Photograph No.: 143 **Orientation:** NA
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 4a and b of white insulation board collected from a boiler in the new die cast area

Photograph No.: 144
TDD Number: S05-0202-004
Location: OMC site
Subject: SACM samples No. 5a and b of smelter unit insulation from the aluminum smelter in the new die cast area

Orientation: NA
Date: 06 Mar 02



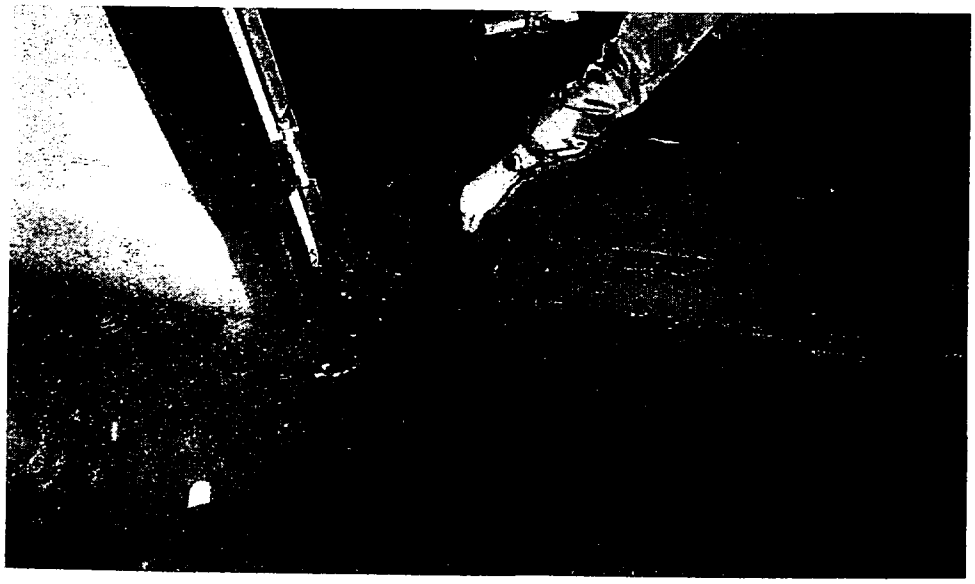
Photograph No.: 145
TDD Number: S05-0202-004
Location: OMC site
Subject: SACM samples No. 6a and b of white insulation board from a molten metal unit in the new die cast area

Orientation: NA
Date: 06 Mar 02

Photograph No.:	146	**Orientation:**	NA
TDD Number:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	SACM samples No. 7a and b of pipe wrapping from a molten metal unit in the new die cast area		

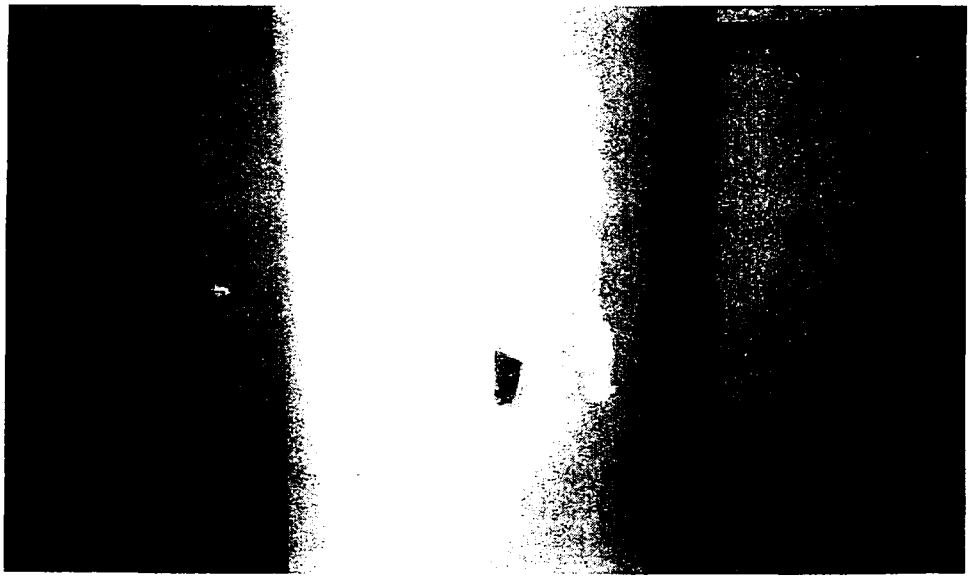
Photograph No.:	147	**Orientation:**	NA
TDD Number:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	SACM samples No. 8a and b of blue pipe insulation wrapping in the south boiler room		

Photograph No.: 148 **Orientation:** NA
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 9a and b of white paper pipe insulation wrapping in the southwest corner of Plant 2



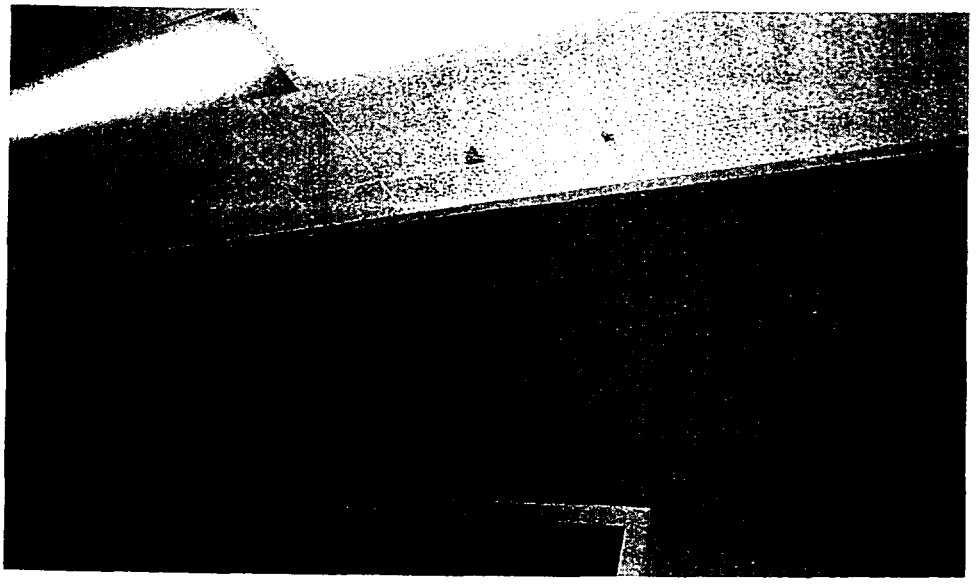
Photograph No.: 149 **Orientation:** NA
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 10a and b of 9- by 9-inch gray floor tile from the office area along the south side of Plant 2

Photograph No.: 150 **Orientation:** NA
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 11a and b of 1-square-foot green floor tile with mastic collected from the office area along the south side of Plant 2

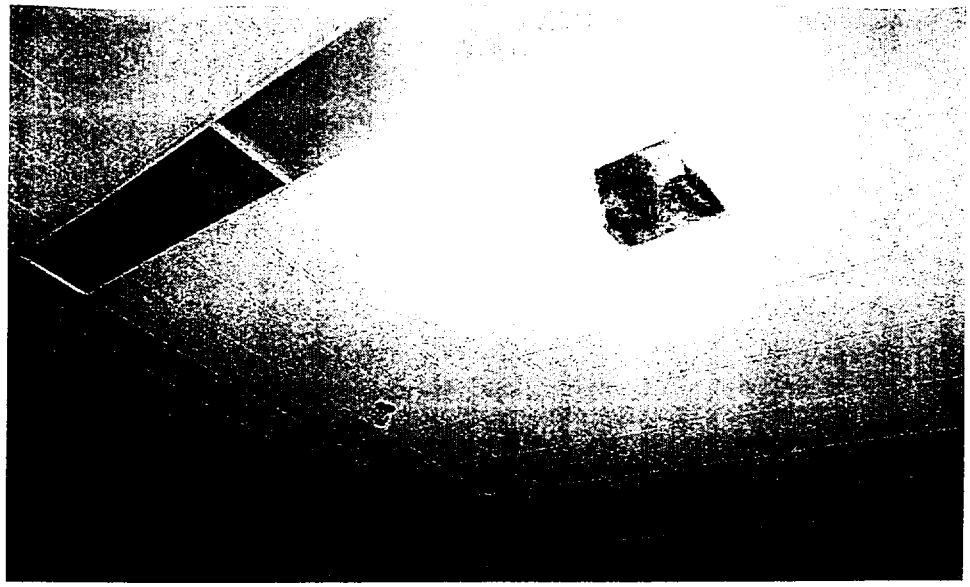


Photograph No.: 151 **Orientation:** NA
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 12a and b of four-layer pipe insulation wrapping collected from the southwest corner of Plant 2

Photograph No.: 152 **Orientation:** NA
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 13a and b of 9- by 9-inch tan floor tile collected from the corporate laboratory

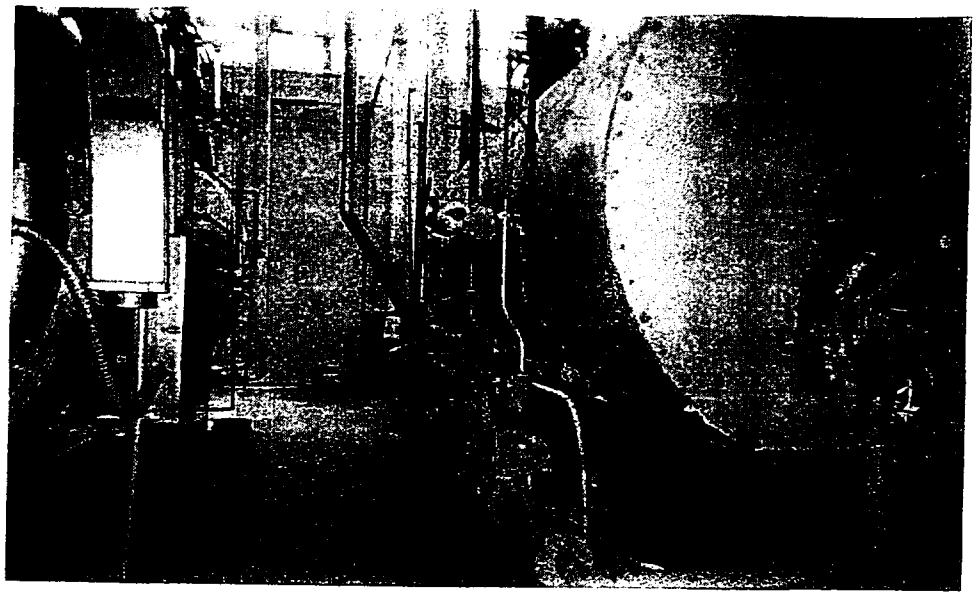


Photograph No.: 153 **Orientation:** NA
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 15a and b of 1-square-foot deep-pitted, white ceiling tile collected from the corporate laboratory

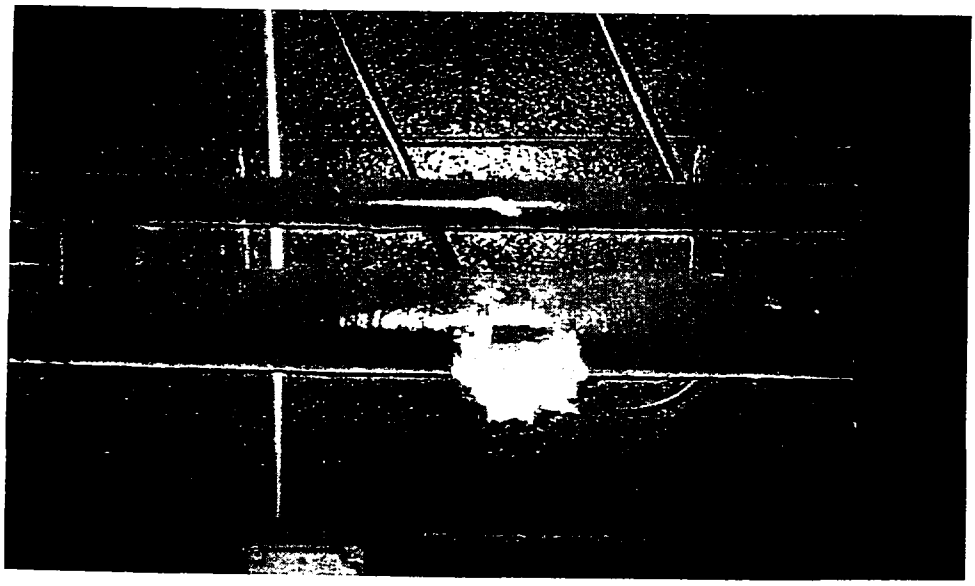


Photograph No.:	154	**Orientation:**	NA
TDD Number:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	SACM samples No. 16a and b of 1-square-foot pitted and pinholed white ceiling tile collected from the corporate laboratory		

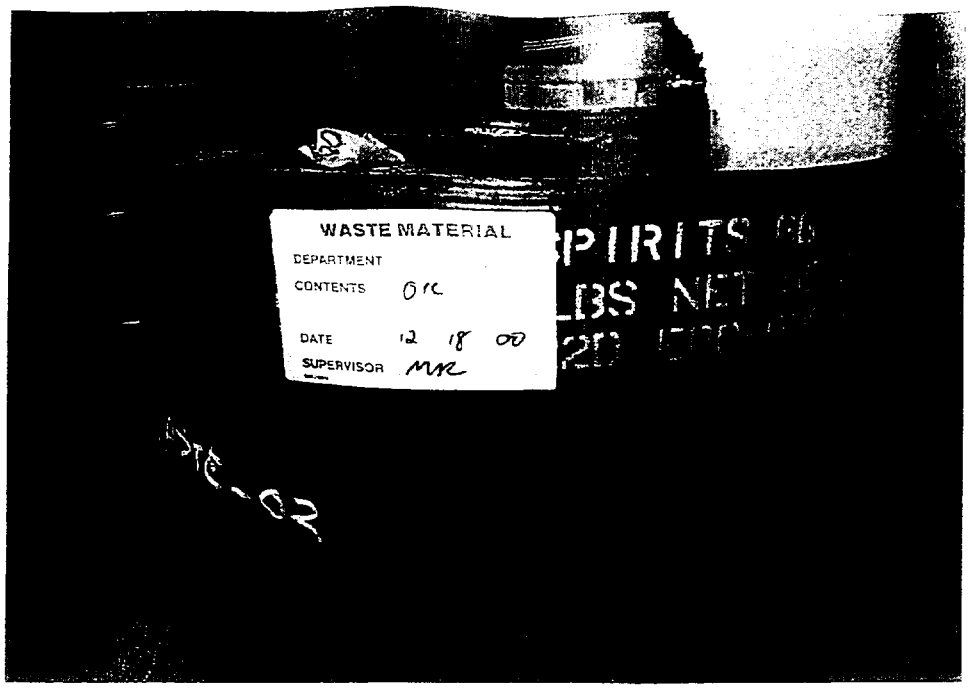
Photograph No.:	155	**Orientation:**	NA
TDD Number:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	SACM samples No. 17a and b of green boiler tank wrapping with insulation collected from the north boiler room		



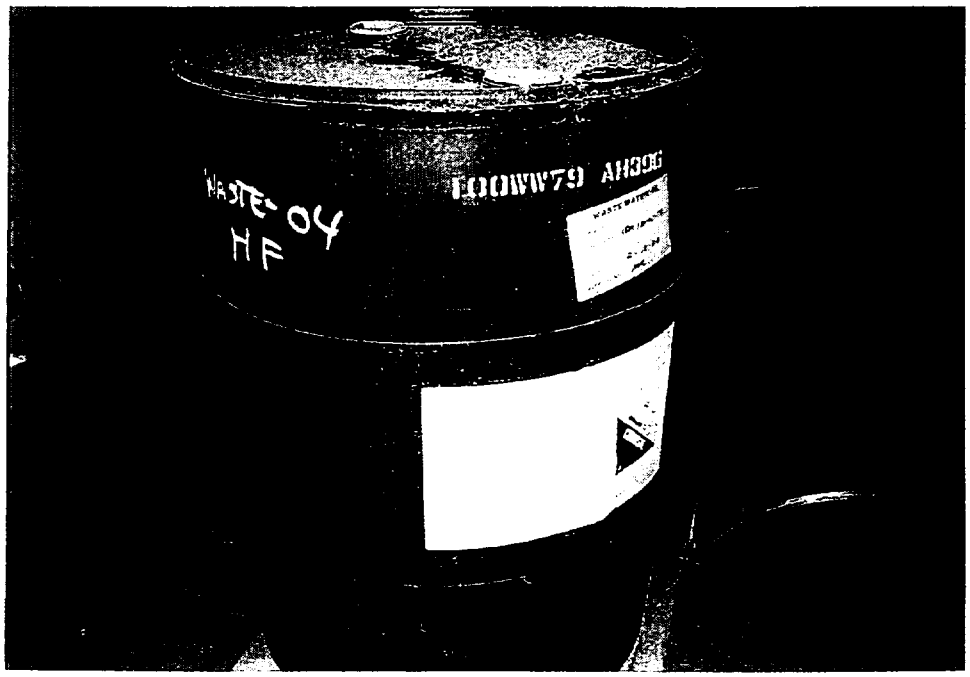
Photograph No.: 156 **Orientation:** North
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 18a and b of gray boiler tank wrapping with insulation collected from the north boiler room



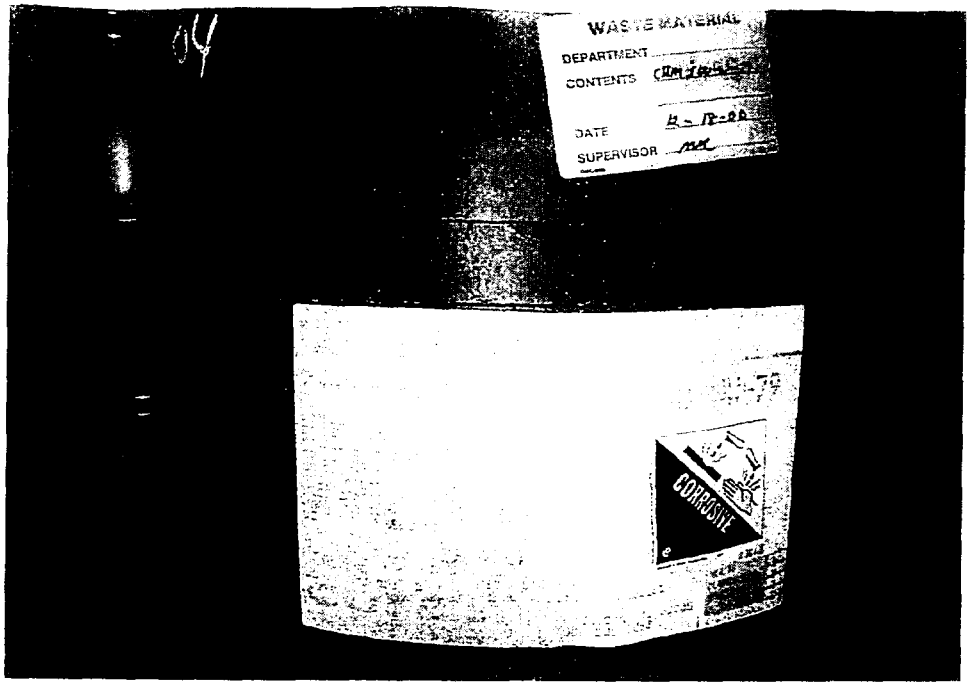
Photograph No.: 157 **Orientation:** East
TDD Number: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: SACM samples No. 20a and b of black pipe insulation wrapping collected from the north boiler room



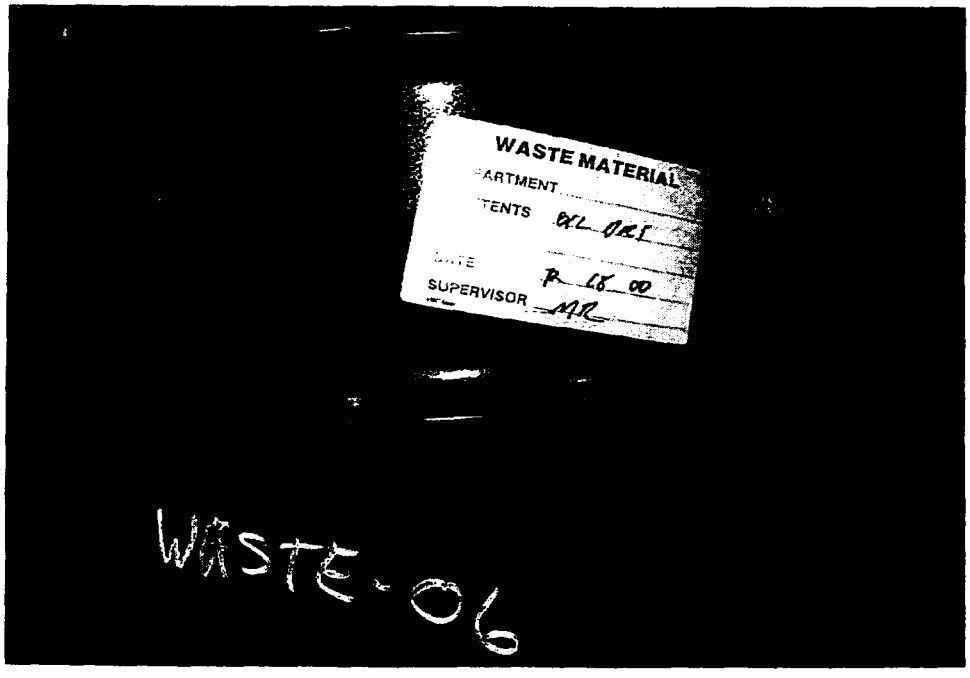
Photograph No.:	158	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	55-gallon drum labeled "Oil" in the chemical storage building		



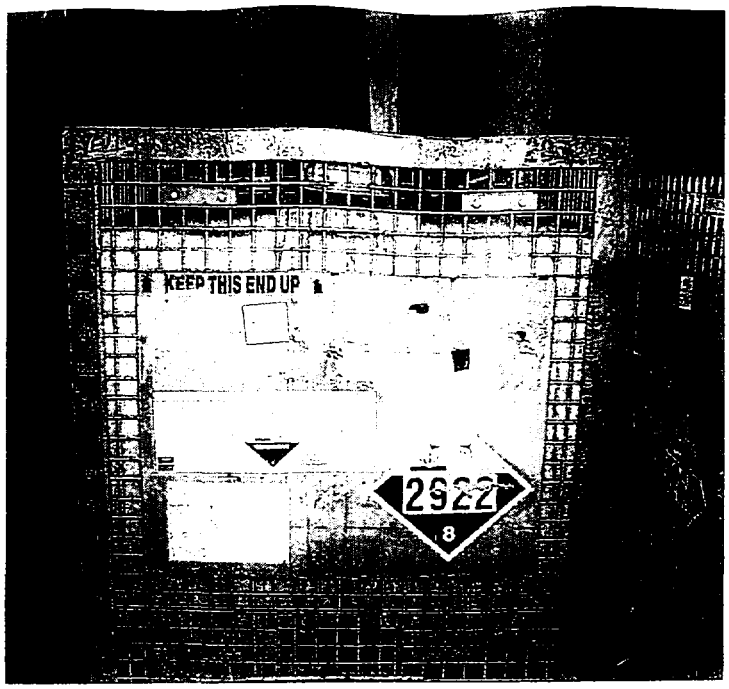
Photograph No.:	159	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	55-gallon drum labeled as containing hydrofluoric acid in the chemical storage building		



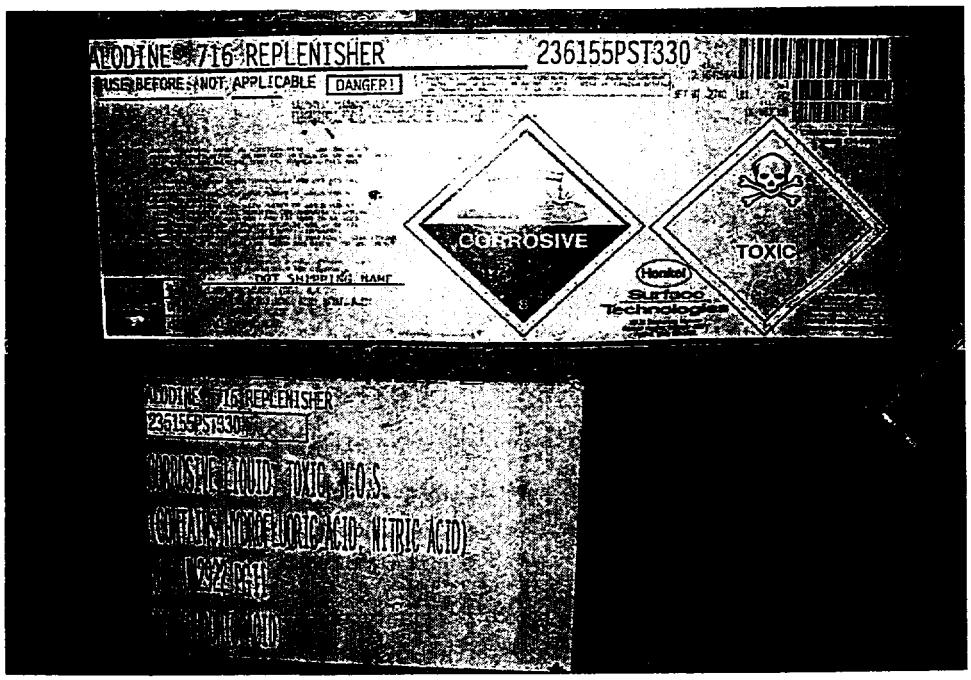
Photograph No.:	160	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Corrosive label observed on 55-gallon drum labeled as containing hydrofluoric acid in the chemical storage building		



Photograph No.:	161	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	55-gallon drum labeled as containing "Oil Dri" in the chemical storage building		



Photograph No.: 162 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Corrosive label observed on tote of hydrofluoric acid in the chemical storage building

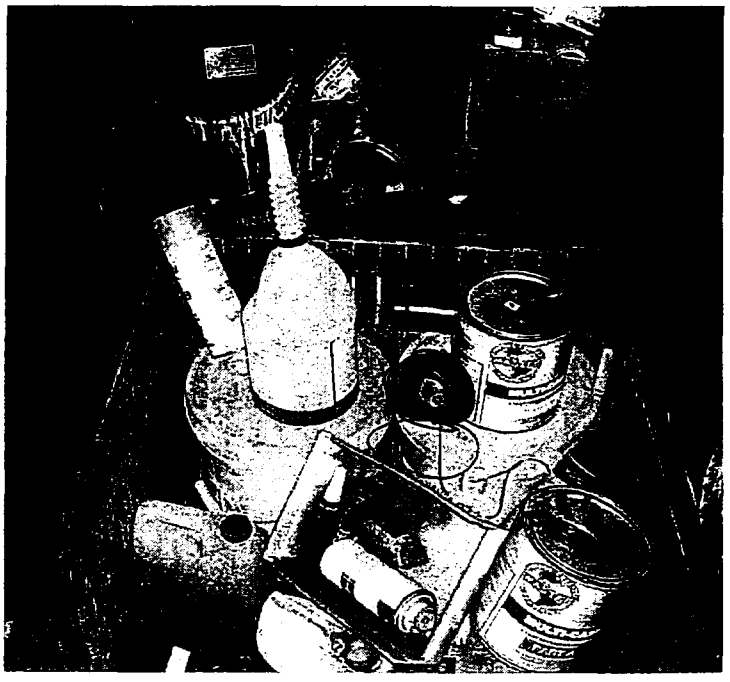


Photograph No.: 163 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Corrosive and toxic labels observed on tote of "Alodine 716 Replenisher" in the chemical storage building

Photograph No.:	164	**Orientation:**	Northeast
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	55-gallon drum labeled as containing "1,1,1-TCA" in the parts storage area		

Photograph No.:	165	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Flammable cabinet filled with various chemicals and cleaners in the chemical storage building		

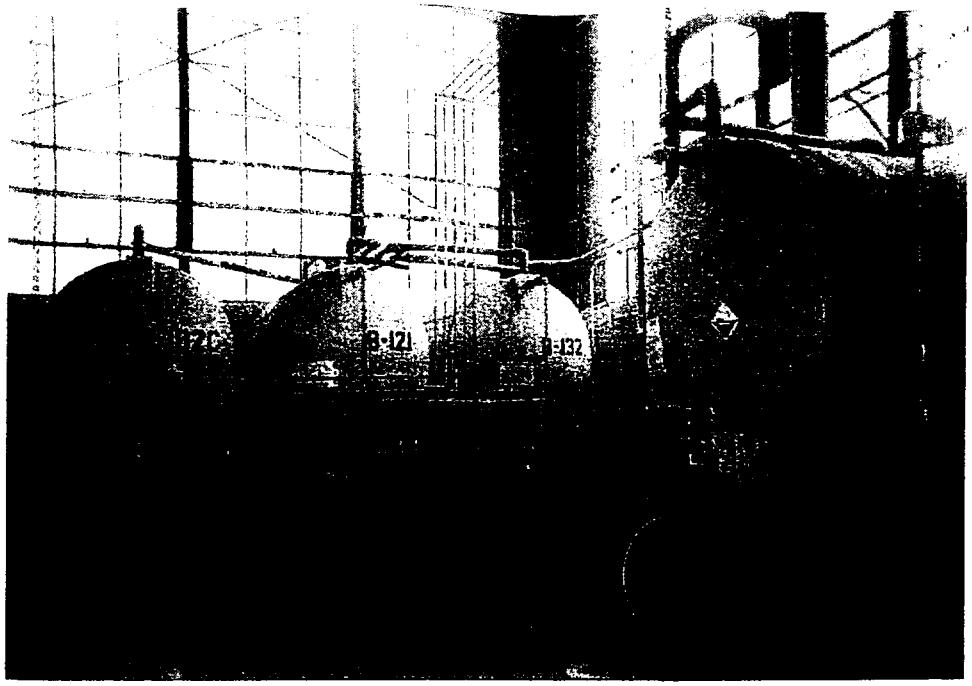
Photograph No.:	166	**Orientation:**	North
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Additional flammable cabinets filled with various chemicals in the chemical storage building		



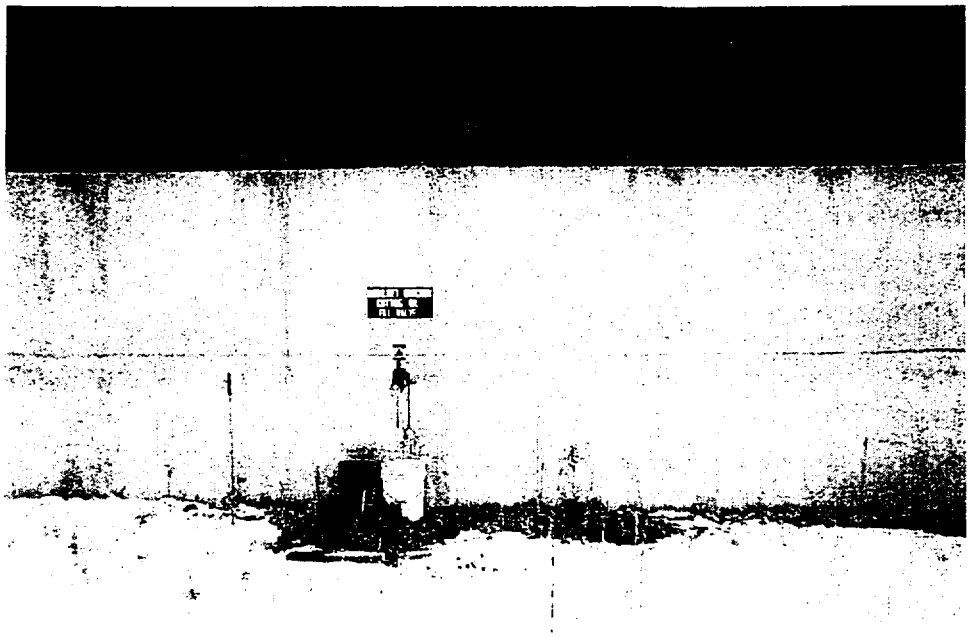
Photograph No.:	167	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Miscellaneous chemicals and cleaners in the chemical storage building		

Photograph No.: 168 **Orientation:** Northeast
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Cabinet in the chemical storage building containing numerous sampling jars filled with various chemicals and materials

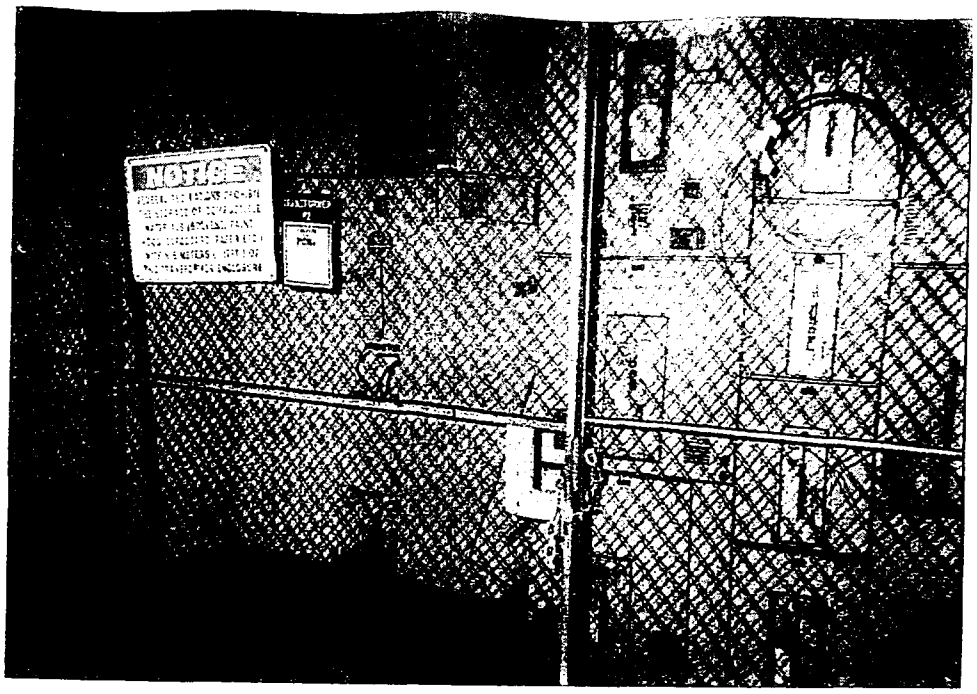
Photograph No.: 169 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 05 Mar 02
Location: OMC site
Subject: Various radiation items in the chemical storage building



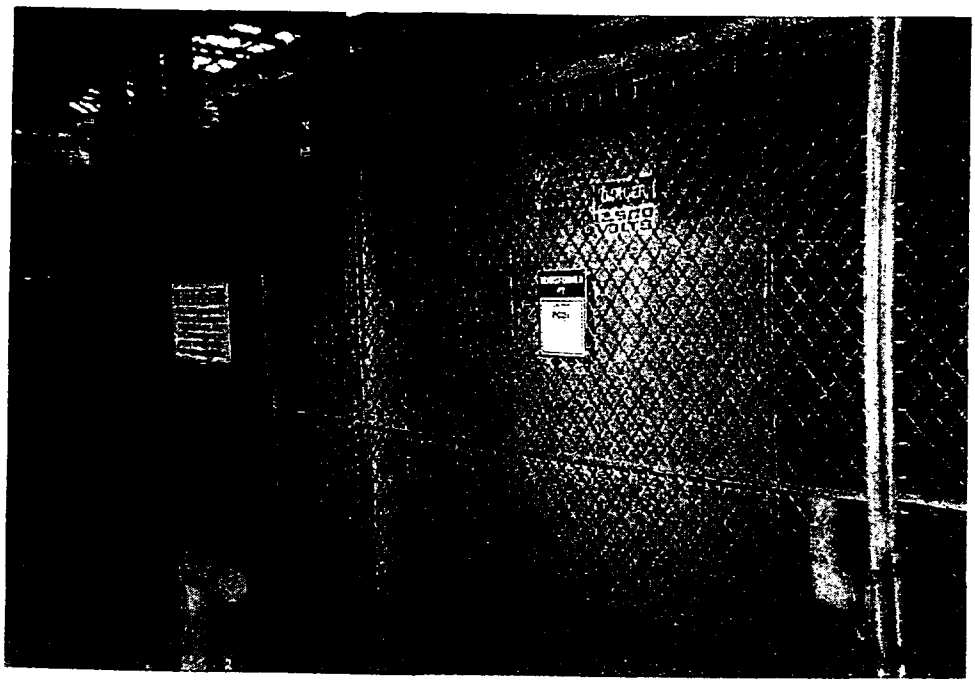
Photograph No.:	170	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	05 Mar 02
Location:	OMC site		
Subject:	Boiler room in the western portion of Plant 2		



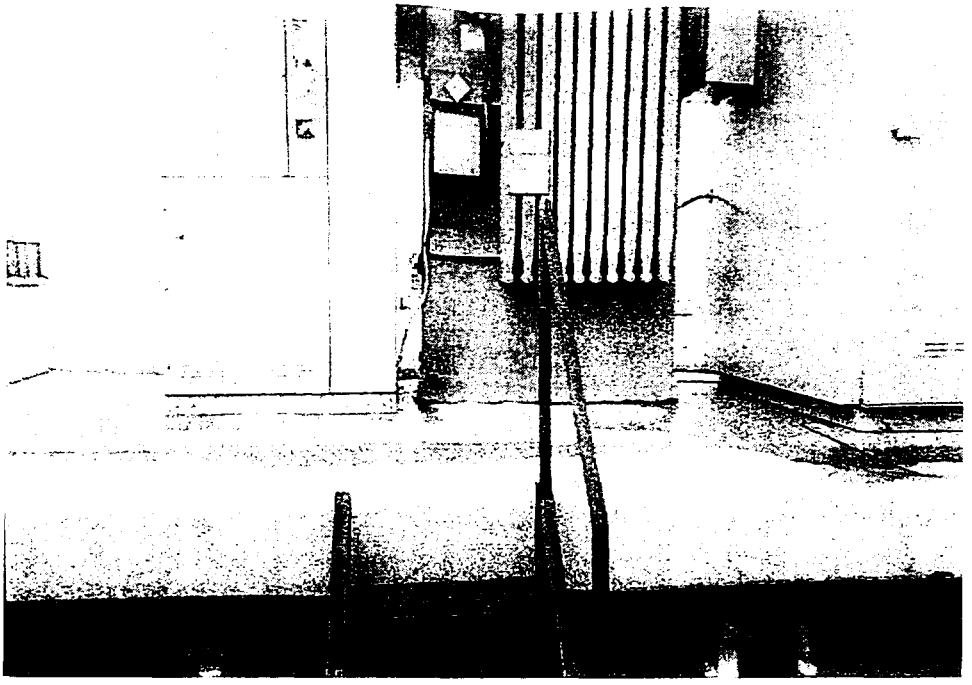
Photograph No.:	171	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Sign located on the exterior wall of the chip wringer room that reads "Mobilmet Omicron Cutting Oil Fill Valve"		



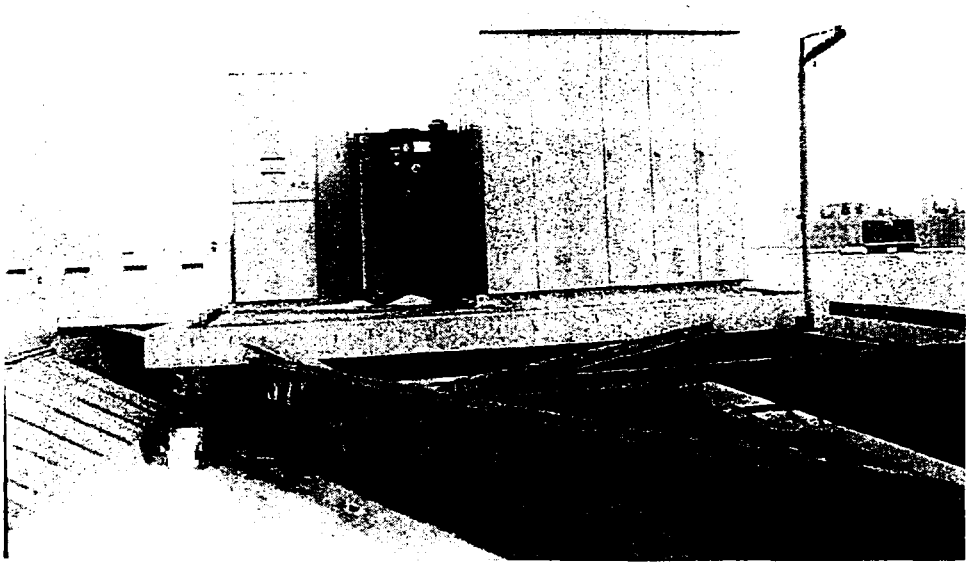
Photograph No.: 172 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Transformer with a label indicating the presence of PCBs



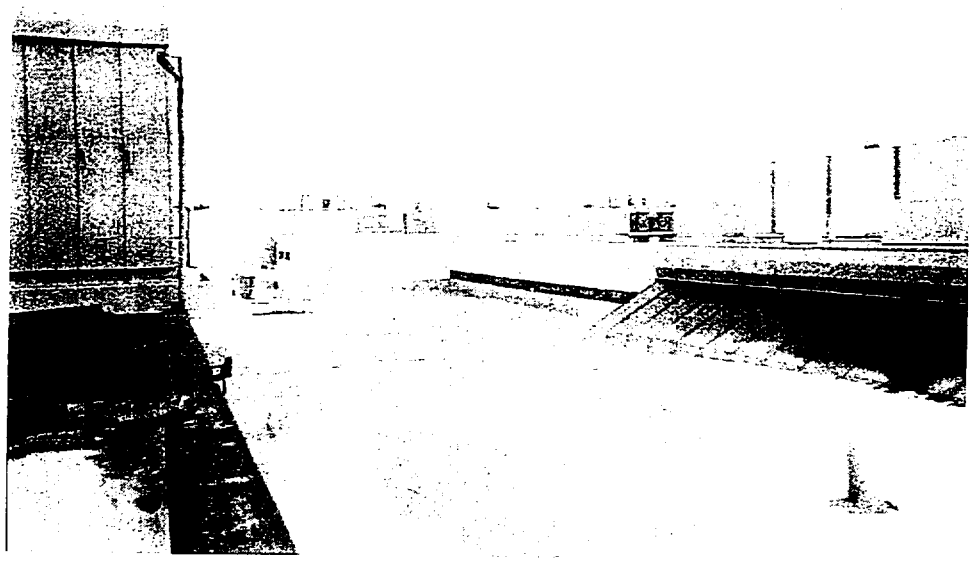
Photograph No.: 173 **Orientation:** NA
TDD No.: S05-0202-004 **Date:** 06 Mar 02
Location: OMC site
Subject: Transformer with a label indicating the presence of PCBs



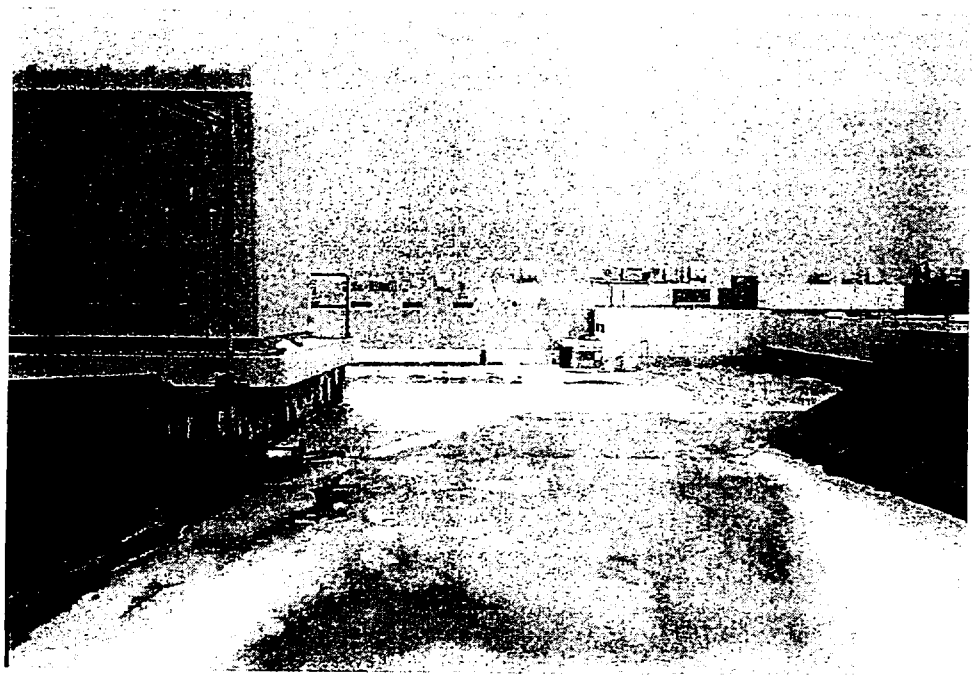
Photograph No.:	174	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Transformer located outside of Plant 2: PCB warning label present on transformer		



Photograph No.:	175	**Orientation:**	NA
TDD No.:	S05-0202-004	**Date:**	06 Mar 02
Location:	OMC site		
Subject:	Transformer located outside of Plant 2; PCB warning label present on transformer		



Photograph No.: 176
TDD No.: S05-0202-004
Location: OMC site
Subject: Transformer located outside of Plant 2
Orientation: NA
Date: 06 Mar 02



Photograph No.: 177
TDD No.: S05-0202-004
Location: OMC site
Subject: Transformer located outside of Plant 2
Orientation: NA
Date: 06 Mar 02

APPENDIX B

INVENTORY

(19 Pages)

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Asbestos	Asbestos	Chemical storage building	Bottle	1	Other	2	1
Coolant	Coolant	Chemical storage building	Drum	55	Steel	2	110
Corrosive	pH Buffers	Chemical storage building	Drum	55	Steel	1	12.5
Corrosive - acid	Acid, liquid, n.o.s. (contains phosphoric acid and hydrofluoric acid)	Chemical storage building	Drum	55	Plastic	1	55
Corrosive - acid	Almco 2510 - contains citric acid	Chemical storage building	Drum	55	Steel	2	110
Corrosive - acid	Alodine 716 Replenisher, corrosive liquid, toxic, n.o.s. (contains hydrofluoric acid, nitric acid); 8, UN2922, PGII, RQ chromic acid	Chemical storage building	Drum	55	Steel	1	27.5
Corrosive - acid	Bottles of acid (nitric and hydrochloric)	Chemical storage building	Bottle	1	Glass	6	6
Corrosive - acid	Chem Cote 3307 (zinc phosphate)	Chemical storage building	Drum	55	Steel	4	220
Corrosive - acid	Chemcid 2050 (contains octylphenoxypoly ethoxyethanide, phosphoric acid)	Chemical storage building	Other	5	Unknown	1	5
Corrosive - acid	Deoxidizer HX-357 Repl corrosive liquid, n.o.s. (contains fluorosilicic acid, sulfuric acid)	Chemical storage building	Drum	55	Plastic	1	55
Corrosive - acid	Etching acid, liquid, n.o.s. AL-CLENE 231-7	Chemical storage building	Drum	20	Plastic	1	20
Corrosive - acid	Hydrochloric acid	Chemical storage building	Bottle	1	Glass	6	6
Corrosive - acid	Nitric acid	Chemical storage building	Bottle	1	Glass	24	24
Corrosive - acid	Nitric acid	Chemical storage building	Kegs	10	Aluminum	4	40
Corrosive - acid	Perchloric acid	Chemical storage building	Bottle	1	Glass	8	8
Corrosive - acid	Phosphoric acid 75%	Chemical storage building	Drum	55	Plastic	4	220
Corrosive - acid	Rustproof 4202 (contains ethanolamine)	Chemical storage building	Other	5	Steel	16	80
Corrosive - acid	Chromic acid	Laboratory inside metal working area	Bottle	0.26	Glass	1	0.13
Corrosive - acid	Ammonium sulfate	Laboratory inside metal working area	Bottle	0.12	Glass	1	0.12
Corrosive - acid	HCl	Laboratory inside metal working area	Bottle	1	Glass	2	2
Corrosive - acid	HCl	Laboratory inside metal working area	Bottle	0.26	Glass	5	1.32
Corrosive - acid	Sulfuric acid	Laboratory inside metal working area	Bottle	0.26	Glass	1	0.26
Corrosive - acid	Acid lead batteries	Metal working area	Other	Unknown	Other	40	Unknown
Corrosive - acid	HCl	Metal working area	Drum	55	Plastic	1	42

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Corrosive - basic	Ammonium hydroxide	Chemical storage building	Bottle	1	Glass	13	13
Corrosive - basic	COR Pol 90 (potassium hydroxide)	Chemical storage building	Drum	55	Steel	2	110
Corrosive - basic	Parco Cleaner 2353 - contains potassium hydroxide and sodium silicate	Chemical storage building	Drum	55	Steel	1	55
Corrosive - basic	Potassium hydroxide solution	Chemical storage building	Tote	330	Plastic	1	330
Corrosive - basic	Sodium hydroxide	Chemical storage building	Bottle	1	Glass	1	1
Corrosive - basic	ODI-200B (alkaline spray cleaner with rust inhibitor)	Flammable room inside metal working area	Other	5	Other	2	10
Corrosive - basic	Alkaline	Old die cast area	Drum	55	Steel	1	55
Corrosive - caustic	Macco 400K	Chemical storage building	Drum	55	Steel	1	55
Corrosive - caustic	Macco 400K	Chemical storage building	Drum	55	Steel	2	110
Corrosive - caustic	Ridoline 56; Potassium hydroxide solution	Chemical storage building	Drum	55	Steel	1	Unknown
Corrosive - toxic	DDDS detergent, disinfectant, deodorant, sanitizer (didecyl dimethyl ammonium chloride)	Flammable room inside metal working area	Drum	55	Plastic	1	55
Corrosive - unknown	OLIN 1866	Boiler room - west	Drum	55	Plastic	1	55
Corrosive - unknown	SI imicide C-68 Betz (corrosive)	New die cast area	Other	5	Plastic	2	10
Corrosive acid	Hydrofluoric nitric acid	Parts storage area	Tank	330	Plastic	1	330
Cyanides	Ammonium thiocyanate	Chemical storage building	Drum	55	Steel	1	5 pounds
Flammables other than waste paint	Flammables	Boiler room - north	Cabinet	Various	Various	1	Unknown
Flammables other than waste paint	Aerosol cans	Chemical storage building	Drum	55	Steel	4	1.09 cubic yards
Flammables other than waste paint	Cabinet containing various solvents, cleaners, and paints	Chemical storage building	Other	Various	Various	1	Unknown
Flammables other than waste paint	Di-isopropylamine	Chemical storage building	Drum	55	Steel	2	110
Flammables other than waste paint	Diesel fuel	Chemical storage building	Drum	55	Steel	10	550
Flammables other than waste paint	Flammable liquids	Chemical storage building	Bottles	1	Glass	46	46
Flammables other than waste paint	Methane - PM 509 3 A	Chemical storage building	Drum	55	Steel	1	55

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Flammables other than waste paint	Methyl alcohol	Chemical storage building	Other	5	Steel	1	5
Flammables other than waste paint	Miscellaneous aerosol cans, cleaners, plastics, paints, coatings, and lubricants	Chemical storage building	Other	Various	Various	4	Unknown
Flammables other than waste paint	Polyurethane	Chemical storage building	Drum	1	Steel	2	2
Flammables other than waste paint	Premium solvent	Chemical storage building	Drum	55	Steel	2	110
Flammables other than waste paint	Scrap gas	Chemical storage building	Drum	55	Steel	1	0.29 cubic yard
Flammables other than waste paint	Waste solvent (MEK)	Chemical storage building	Drum	55	Steel	1	55
Flammables other than waste paint	Mineral spirits	Metal working area	Drum	55	Steel	2	41
Flammables other than waste paint	Gasoline	Old die cast area	Other	2	Steel	2	1
Flammables other than waste paint	Gasoline for 12-cycle engine mix	Old die cast area	Other	5	Steel	2	5
Flammables other than waste paint	Wood glue	Old die cast area	Bottle	5	Plastic	3	15
Flammables other than waste paint	99 Percent Iso alcohol	Paint spray booth	Bottle	5	Glass	1	5
Flammables other than waste paint	Acetone	Paint spray booth	Drum	1	Glass	1	1
Flammables other than waste paint	Epoxy	Paint spray booth	Drum	5	Steel	1	5
Flammables other than waste paint	Epoxy high solid catalyst	Paint spray booth	Drum	55	Steel	1	55
Flammables other than waste paint	Isopropanol	Paint spray booth	Drum	1	Steel	1	1
Flammables other than waste paint	MEK	Paint spray booth	Drum	55	Steel	2	110
Flammables other than waste paint	Paint stripper	Paint spray booth	Drum	1	Steel	1	0.5

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Flammables other than waste paint	Peel	Paint spray booth	Drum	5	Steel	4	20
Flammables other than waste paint	Resin	Paint spray booth	Drum	5	Plastic	1	5
Flammables other than waste paint	Silicone flammable agents		Drum	5	Plastic	17	85
Lab pack	Hach chemicals	Chemical storage building	Drum	5	Plastic	2	10
Lab pack	Laboratory chemicals	Chemical storage building	Drum	35	Plastic	1	0.17 cubic yard
Lab pack	Small laboratory reagent bottles, overpack	Chemical storage building	Drum	5	Plastic	1	0.02 cubic yard
Mercury	Thermometers, overpack	Chemical storage building	Drum	55	Steel	1	0.06 cubic yard
Mercury	Thermometers, jar of mercury, overpack	Chemical storage building	Drum	5	Plastic	1	0.02 cubic yard
Organic chlorides	1,1,1 TCE	Chemical storage building	Drum	55	Steel	4	220
Organic chlorides	Solvent	Chemical storage building	Drum	55	Steel	1	55
Organic chlorides	Used antifreeze	Chemical storage building	Drum	55	Steel	12	660
Organic chlorides	Used Ucon	Chemical storage building	Drum	55	Steel	5	275
Organic chlorides	Stand-Power Up Cleaner	Metal working area	Drum	55	Steel	1	30
Organic chlorides	Trichloroethane	Metal working area	Drum	5	Unknown	3	15
Organic chlorides	Waste materials	Parts storage area	Drum	55	Steel	27	1,485
Other	B-121 boiler water treatment	Boiler room - west	Drum	55	Unknown	1	55
Other	Boiler	Boiler room - west	Other	Unknown	Steel	2	Unknown
Other	Air cylinders	Chemical storage building	Cylinder	Unknown	Steel	4	Unknown
Other	Anticorit OL 1028 P MS	Chemical storage building	Drum	55	Steel	2	110
Other	Biwax 82.992 catalyst	Chemical storage building	Bottle	5	Unknown	4	20
Other	Biwax 82.992 resin	Chemical storage building	Bottle	5	Unknown	4	20
Other	Boat battery	Chemical storage building	Other	Unknown	Other	1	Unknown
Other	Cabinet containing liquid oil samples	Chemical storage building	Other	Various	Various	Unknown	Unknown
Other	Cabinet containing oil samples, sealer, acids, etc.	Chemical storage building	Other	Various	Various	Unknown	Unknown
Other	Celite floor dry	Chemical storage building	Drum	55	Steel	1	0.29 cubic yard
Other	CEM-100-WW-79	Chemical storage building	Drum	55	Steel	1	55
Other	Chem Add-6200 (accelerator) (contains sodium nitrite)	Chemical storage building	Drum	55	Steel	2	110
Other	Chem Clean 1050, spray alkaline cleaner	Chemical storage building	Other	220	Unknown	4	880

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Other	Clean 550 (cleaning compound)	Chemical storage building	Drum	55	Steel	1	0.29 cubic yard
Other	Conditioner 500	Chemical storage building	Other	5	Unknown	1	5
Other	Coolant - antifreeze	Chemical storage building	Drum	55	Steel	1	55
Other	Coolant - waste	Chemical storage building	Drum	55	Steel	6	330
Other	Copper sulfate crystals	Chemical storage building	Drum	5	Fibre	1	0.02 cubic yard
Other	Crushed drums and pails	Chemical storage building	Cubic yard box	1	Fibre	1	1 cubic yard
Other	Decontamination water	Chemical storage building	Drum	55	Plastic	2	110
Other	Developing solution	Chemical storage building	Bottle	1	Plastic	1	1
Other	Die Slick No. 606X	Chemical storage building	Drum	55	Steel	4	220
Other	ECOCUT 3225	Chemical storage building	Drum	55	Steel	7	385
Other	Electro Cleaner, formula B	Chemical storage building	Drum	55	Steel	1	55
Other	Gas filters	Chemical storage building	Drum	55	Steel	1	0.29 cubic yard
Other	Grease	Chemical storage building	Other	5	Steel	2	10
Other	Hydraulic hoses - fyrquel	Chemical storage building	Other	Unknown	Unknown	2	Unknown
Other	Imprex 303NG casting sealant	Chemical storage building	Drum	55	Steel	6	330
Other	Imprex metallic sealant	Chemical storage building	Drum	55	Steel	3	165
Other	Imprex superseal 95-1000A	Chemical storage building	Drum	55	Steel	2	110
Other	Insulation	Chemical storage building	Pallet	Unknown	Other	18	18 bags
Other	Insulation board	Chemical storage building	Pallet	Unknown	Other	2	2 bags
Other	Lanolin Soft	Chemical storage building	Drum	55	Steel	3	165
Other	Lyf. Filters	Chemical storage building	Drum	55	Steel	9	2.48 cubic yards
Other	Melkool 2326	Chemical storage building	Drum	55	Steel	4	220
Other	Metalite SGC-62	Chemical storage building	Drum	55	Steel	2	110
Other	Microbiocide	Chemical storage building	Drum	55	Steel	1	55
Other	MK 3000 PL (contains mineral oil)	Chemical storage building	Drum	55	Steel	1	27.5
Other	ML-33-902	Chemical storage building	Drum	55	Steel	2	110
Other	Mobilgear 634	Chemical storage building	Drum	55	Steel	1	55
Other	Nickel-cadmium batteries	Chemical storage building	Drum	55	Steel	2	0.58 cubic yard
Other	No. 606X	Chemical storage building	Drum	55	Steel		Unknown
Other	NS411 (contains fluoride and nitrate-potassium or sodium)	Chemical storage building	Drum	55	Steel	4	1.16 cubic yards
Other	Oil Dri	Chemical storage building	Cubic yard box	1	Fibre	1	1 cubic yard
Other	Oil Dri	Chemical storage building	Drum	55	Steel	11	3.29 cubic yards

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Other	Oil pigs	Chemical storage building	Other	Unknown	Other	8	8 pigs
Other	Paint filters	Chemical storage building	Drum	55	Steel	5	1.36 cubic yards
Other	Perm E Pox HT; concrete sealant	Chemical storage building	Other	5	Steel	5	0.13 cubic yard
Other	Petro Dyne E.H.	Chemical storage building	Drum	55	Steel	1	55
Other	Photodeveloper	Chemical storage building	Drum	55	Steel	2	110
Other	Plus Fifty B Dry Chemical (Fire fighting foam)	Chemical storage building	Other	5	Unknown	4	20
Other	Powercon resin	Chemical storage building	Drum	55	Steel	1	55
Other	Process 711X Rust Inhibitor	Chemical storage building	Drum	55	Steel	2	110
Other	Pyrene 1063	Chemical storage building	Drum	55	Steel	1	55
Other	Radiator coolant	Chemical storage building	Drum	55	Steel	1	55
Other	Renoclean 400K	Chemical storage building	Drum	55	Steel	2	110
Other	RENOKOOL 207	Chemical storage building	Drum	55	Steel	2	110
Other	Resin	Chemical storage building	Drum	55	Steel	1	55
Other	Resin cloth belts	Chemical storage building	Pallet	Unknown	wood	3	3 pallets
Other	Ridoline 337	Chemical storage building	Drum	55	Plastic	1	55
Other	Rustilo 4145	Chemical storage building	Drum	55	Steel	1	55
Other	Safety-Cool 407	Chemical storage building	Drum	55	Steel	1	55
Other	Silicone dielectic - Sylgard 527	Chemical storage building	Other	5	Plastic	2	10
Other	Sludge	Chemical storage building	Cubic yard box	201	Fibre	1	1 cubic yard
Other	Soda ash	Chemical storage building	Pallet	Unknown	Other	1	Unknown
Other	Sodium silicate	Chemical storage building	Drum	55	Steel	1	55
Other	Steelguard 1505-K-2	Chemical storage building	Drum	55	Steel	1	55
Other	Tech Clean 7011	Chemical storage building	Other	5	Unknown	2	10
Other	Tri-krome blue	Chemical storage building	Other	5	Unknown	1	0.02 cubic yard
Other	Trim Sol (chemical emulsion concentrate)	Chemical storage building	Drum	55	Steel	1	55
Other	Unknown - salvage drum	Chemical storage building	Drum	85	Steel	1	55
Other	Used filters - fyrquel	Chemical storage building	Drum	55	Steel	1	0.27 cubic yard
Other	Used fluorescent bulbs/tubes	Chemical storage building	Box	NA	Fibre	24	720 bulbs
Other	Used video jet ink, makeup, and cleaner	Chemical storage building	Other	5	Other	1	5
Other	Waste epoxy catalyst	Chemical storage building	Drum	55	Steel	4	220
Other	Worthseal 40	Chemical storage building	Drum	55	Steel	5	275
Other	WRICO BGA	Chemical storage building	Drum	55	Plastic	1	55
Other	WWTS sludge	Chemical storage building	Cubic yard box	1	Fiber	1	1 cubic yard

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Other	WWTS sludge - plant 1	Chemical storage building	Cubic yard box	1	Fiber	5	5 cubic yards
Other	WWTS sludge - plant 2	Chemical storage building	Cubic yard box	1	Fiber	6	6 cubic yards
Other	Automobile batteries	Grit blasting area	Other	Unknown	Other	4	Unknown
Other	Forklift batteries	Grit blasting area	Other	Unknown	Other	2	Unknown
Other	1000H Imprem	Laboratory inside metal working area	Bottle	0.12	Glass	1	0.5 liter
Other	711X Neat	Laboratory inside metal working area	Bottle	0.2	Glass	1	0.75 liter
Other	Additive F	Laboratory inside metal working area	Bottle	5	Glass	2	10
Other	Alumi prep	Laboratory inside metal working area	Bottle	1	Other	1	1
Other	Bath oil	Laboratory inside metal working area	Bottle	0.12	Plastic	1	0.5 liter
Other	Bromothynol	Laboratory inside metal working area	Bottle	0.25	Glass	1	1 liter
Other	Buffer solution	Laboratory inside metal working area	Bottle	0.12	Plastic	1	0.5 liter
Other	Buffer solution red	Laboratory inside metal working area	Bottle	0.25	Plastic	1	1 liter
Other	Chem add	Laboratory inside metal working area	Bottle	1	Glass	1	1
Other	Clemcid Acid Cleaner	Laboratory inside metal working area	Bottle	1	Glass	1	1
Other	Deodine 1201	Laboratory inside metal working area	Bottle	1	Glass	1	1
Other	Ferrion Indicator	Laboratory inside metal working area	Bottle	0.25	Glass	1	1 liter
Other	Methanol Red Indicator	Laboratory inside metal working area	Bottle	0.12	Plastic	1	0.5 liter
Other	Parco Neutralizer	Laboratory inside metal working area	Bottle	1	Glass	1	1
Other	pH Calibrating Buffer	Laboratory inside metal working area	Bottle	5	Glass	3	15
Other	Pink liquid	Laboratory inside metal working area	Bottle	0.12	Glass	1	0.5 liter
Other	Potassium dichpomate	Laboratory inside metal working area	Bottle	0.25	Glass	1	1 liter
Other	Potassium iodine	Laboratory inside metal working area	Bottle	0.12	Glass	1	0.5 liter
Other	Starcher	Laboratory inside metal working area	Bottle	0.13	Other	1	0.13
Other	AD 2000	Metal working area	Drum	55	Plastic	1	41
Other	AD2000 - degreaser	Metal working area	Drum	55	Plastic	5	247
Other	Antitrust 1028P (Witco)	Metal working area	Drum	55	Plastic	3	165
Other	Oil	Metal working area	Tank	2,000	Steel	1	2,000
Other	Benerite 715MU	Metal working area	Drum	55	Plastic	1	14
Other	Calclean	Metal working area	Drum	55	Other	1	40
Other	Corfilm95	Metal working area	Drum	55	Steel	1	55
Other	Denolin WL 220 f	Metal working area	Drum	55	Plastic	1	55
Other	Dirty coolant	Metal working area	Drum	55	Plastic	3	165
Other	EcoCut	Metal working area	Drum	55	Plastic	1	55
Other	EP Compound	Metal working area	Drum	55	Steel	1	14

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Other	Hi-VIS Grease	Metal working area	Drum	55	Steel	1	55
Other	Klean Strip - spray gun cleaner	Metal working area	Drum	5	Plastic	1	2.5
Other	Lanolin Soft	Metal working area	Drum	55	Steel	3	165
Other	MelKool	Metal working area	Drum	55	Steel	7	234
Other	Melkool	Metal working area	Tank	120	Steel	1	120
Other	Orange oil sludge	Metal working area	Drum	55	Steel	1	55
Other	RenoKool	Metal working area	Tank	345	Plastic	1	345
Other	Ridoline 337	Metal working area	Drum	55	Plastic	5	275
Other	Solvent	Metal working area	Saftey Kleen parts washer	50	Steel	1	50
Other	Super seal Imprex Anti rust	Metal working area	Drum	55	Plastic	1	55
Other	A1 degreaser	New die cast area	Drum	30	fiber	3	90
Other	Antisolder paste	New die cast area	Drum	5	Plastic	14	70
Other	Automobile batteries	New die cast area	Other	Unknown	Other	29	Unknown
Other	Busan 1060	New die cast area	Drum	55	Steel	2	110
Other	Carbon dioxide	New die cast area	Tank	Unknown	Steel	1	Unknown
Other	Chem Clean 250	New die cast area	Tank	75	Steel	1	75
Other	Compressed hydrogen	New die cast area	Tank	30	Steel	1	30
Other	Coolant	New die cast area	Drum	55	Steel	1	55
Other	Die casting lubricant	New die cast area	Drum	55	Steel	2	110
Other	E/D Cool 401	New die cast area	Drum	55	Steel	1	55
Other	Floor finish	New die cast area	Drum	55	Steel	1	55
Other	Fluoride/anhydrous magnesium chloride	New die cast area	Drum	55	fiber	2	0.58 cubic yard
Other	Grease	New die cast area	Drum	15	Steel	10	150
Other	LST Fluid	New die cast area	Drum	55	Steel	1	55
Other	Macco 768	New die cast area	Drum	55	Steel	1	41
Other	Malco 6076	New die cast area	Drum	55	Steel	1	14
Other	Malloy cleaner	New die cast area	Other	30	Unknown	1	30
Other	MelKool	New die cast area	Drum	55	Steel	1	55
Other	Mineral oil	New die cast area	Drum	55	Steel	16	880
Other	ML 36	New die cast area	Drum	55	Steel	1	55
Other	Molub Alloy	New die cast area	Drum	55	Steel	1	55
Other	Nalco 2327	New die cast area	Drum	55	Plastic	2	110
Other	Nitrogen	New die cast area	Tank	1,500	Steel	1	1,500

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Other	NS 411	New die cast area	Drum	55	Fiber	5	275
Other	Parts cleaner with solvent	New die cast area	Other	Unknown	Other	0	Unknown
Other	Plunger lube waste	New die cast area	Drum	55	Steel	2	110
Other	Plus 60B Dry	New die cast area	Drum	20	Steel	1	20
Other	Propane	New die cast area	Tank	Unknown	Steel	1	Unknown
Other	Sodium silicate	New die cast area	Drum	55	Steel	1	55
Other	Solvent	New die cast area	Drum	30	Steel	1	30
Other	Solvent	New die cast area	Saftey Kleen Parts Washer	50	Steel	2	100
Other	Solvent	New die cast area	Drum	55	Steel	2	55
Other	Synthetic antisolder spray	New die cast area	Drum	5	Steel	1	5
Other	Unknown	New die cast area	Drum	55	Steel	2	110
Other	Unknown	New die cast area	Drum	55	Steel	1	55
Other	Unknown	New die cast area	Drum	55	Steel	8	440
Other	Unknown	New die cast area	Drum	55	Steel	1	55
Other	Used Oil Dri	New die cast area	Cubic yard box	1 cubic yard	Fibre	2	2 cubic yards
Other	Waste antifreeze	New die cast area	Drum	55	Steel	1	55
Other	Acrylic bake	Old die cast area	Drum	5	Steel	1	5
Other	Lanolin soft	Old die cast area	Drum	55	Steel	1	55
Other	Metalite Super 844	Old die cast area	Drum	55	Steel	1	Unknown
Other	Parts cleaner with solvent	Old die cast area	Drum	55	Steel	4	110
Other	Pren-n-cote	Old die cast area	Drum	55	Steel	1	55
Other	Purcolene	Old die cast area	Drum	55	Steel	1	55
Other	Purco-plastic rinse	Old die cast area	Drum	55	Steel	3	165
Other	Ridoline 337	Old die cast area	Drum	55	Steel	1	55
Other	Unknown - salvage drum overpack	Old die cast area	Drum	85	Plastic	4	1.16 cubic yards
Other	Orange, rust-colored liquid	Paint spray booth	Drum	20	Steel	1	10
Other	Overcoat 500	Paint spray booth	Drum	55	Steel	1	55
Other	Rinse 205	Paint spray booth	Drum	55	Plastic	1	55
Other	Carburizing salts	Parts storage area	Drum	35	Steel	1	0.17 cubic yard
Other	Chem Clean 1063	Parts storage area	Tank	330	Plastic	3	660
Other	Concrete cleaner (sodium metasilicate)	Parts storage area	Drum	35	Fibre	1	8.75
Other	EDM 244-cleaner	Parts storage area	Drum	55	Steel	1	13.75
Other	HX-357	Parts storage area	Tank	330	Plastic	1	330

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Other	Imprex metallic sealant	Parts storage area	Drum	55	Steel	1	55
Other	PMDL (polymeric diphenelmethane dicocyate)	Parts storage area	Drum	55	Steel	1	18
Other	Antifreeze	Waste oil storage area	Tank	100	Steel	1	100
Other	Bio-Cast 1020	Waste oil storage area	Tank	3' x 5'	Steel	1	Unknown
Other	Concentrated soap and water	Waste oil storage area	Tank	10,000	Steel	1	10,000
Other	Floor finish	Waste oil storage area	Drum	55	Steel	1	55
Other	Hydrogen peroxide	Waste oil storage area	Drum	55	Plastic	1	55
Other	Permeate holding tank	Waste oil storage area	Tank	8,000	Steel	1	8,000
Other	Soap and water waste	Waste oil storage area	Tank	5,000	Steel	1	5,000
Other	Soap process tank	Waste oil storage area	Tank	5,000	Steel	1	5,000
Other	Unknown	Waste oil storage area	Drum	55	Steel	6	330
Other	Calgon water		Drum	55	Plastic	4	220
Other	CR640 Catalyst Product		Drum	55	Steel	1	55
PCBs	Transformers	Boiler room - north	Other	260	Other	6	1,560
PCBs	PCBs	Chemical storage building	Drum	35	Steel	1	35
PCBs	PCB ballasts	Chemical storage building	Drum	55	Steel	3	0.68 cubic yard
PCBs	PCB investigation-derived waste	Chemical storage building	Drum	35	Plastic	1	0.29 cubic yard
PCBs	PCBs		Transformer		Steel	1	75
Plating waste other than acid/base	En-plate Ni-416	Chemical storage building	Drum	35	Steel	2	70
Plating waste other than acid/base	Spent tin plate potassium stannate	Chemical storage building	Drum	55	Plastic	6	330
Plating waste other than acid/base	Tin plate sludge	Chemical storage building	Drum	35	Steel	1	35
Plating waste other than acid/base	Shot, dust, and slag	Grit blasting area	Drum	55	Steel	11	1.6 cubic yards
Radioactive	Two Type 7000 UF Dew Pointers, one static meter, 3M Model 703, two 1-lb bottles of thorium nitrate, and one 1-oz bottle of uranyl nitrate	Chemical storage building	Drum	35	Plastic	1	0.17 cubic yard
Radioactive	Astrolube	New die cast area	Drum	5	Steel	1	5
Sulfides	Catalyzer sulfite	Boiler room - north	Drum	55	Fibre	1	0.29 cubic yard
Sulfides	Sodium hydrosulfite, 4.2	Chemical storage building	Drum	35	Plastic	1	35

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Sulfides	Ferrous sulfide bags	Laboratory inside metal working area	Bags	10	Fibre	1	0.05 cubic yard
Waste oil	Oily sludge	New die cast area	Drum	55	Steel	2	110
Waste oil - chlorinated	CT 250-NC (Blue) metalworking fluid (petroleum distillates, hexylene glycol, and glutaraldehyde)	Chemical storage building	Drum	55	Steel	3	165
Waste oil - chlorinated	Oil/coolant	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Oil	Boiler room - north	Drum	55	Steel	1	55
Waste oil - hydraulic	Crankcase oil	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Dexon 3 (transmission fluid)	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Die casting lubricant CT897-0	Chemical storage building	Tote	330	Plastic	3	990
Waste oil - hydraulic	Drain oil	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Ecoform Syn 902	Chemical storage building	Drum	55	Steel	4	220
Waste oil - hydraulic	J Shop 600 cleaner	Chemical storage building	Drum	55	Steel		Unknown
Waste oil - hydraulic	Lubricating grease	Chemical storage building	Drum	10	Steel	10	100
Waste oil - hydraulic	Mobilgear 629 industrial gear oil	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Oil	Chemical storage building	Bottle	1	Plastic	3	3
Waste oil - hydraulic	Oil	Chemical storage building	Other	5	Plastic	4	20
Waste oil - hydraulic	Oil	Chemical storage building	Drum	55	Steel	13	715
Waste oil - hydraulic	Petraspeed 22 Spindle Oil	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Petraulic 68, hyd/lube oil	Chemical storage building	Drum	55	Steel	3	165
Waste oil - hydraulic	ThreadKut 7800 (cutting oil)	Chemical storage building	Drum	55	Steel	2	110
Waste oil - hydraulic	Used hydraulic oil	Chemical storage building	Drum	55	Steel	2	110
Waste oil - hydraulic	Vactra Oil BB	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Vactra Oil No. 4	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Velocite Oil 3	Chemical storage building	Drum	55	Steel	1	55
Waste oil - hydraulic	Waste oil	Chemical storage building	Drum	55	Steel	2	110
Waste oil - hydraulic	XB-62 (oil)	Chemical storage building	Drum	55	Steel	2	110
Waste oil - hydraulic	Oil	Grit blasting area	Drum	55	Steel	1	55
Waste oil - hydraulic	Oil cart	Grit blasting area	Other	300	Steel	1	300
Waste oil - hydraulic	Portable oil filling cart	Grit blasting area	Other	Unknown	Steel	1	Unknown
Waste oil - hydraulic	air tool oil	Metal working area	Bottle	1	Plastic	1	1
Waste oil - hydraulic	Deoxlyte 100 NC	Metal working area	Drum	55	Steel	1	55
Waste oil - hydraulic	Gear case lubricant oil	Metal working area	Drum	55	Steel	1	55

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OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Waste oil - hydraulic	gear oil	Metal working area	Bottle	1	Plastic	5	5
Waste oil - hydraulic	Hydraulic oil	Metal working area	Bottle	1	Plastic	20	20
Waste oil - hydraulic	lubricant	Metal working area	Drum	55	Steel	3	165
Waste oil - hydraulic	Oil	Metal working area	Bottle	1	Plastic	54	54
Waste oil - hydraulic	Oil	Metal working area	Drum	5	Plastic	3	12.5
Waste oil - hydraulic	Oil	Metal working area	Drum	55	Steel	19	554.5
Waste oil - hydraulic	Oil sump	Metal working area	Sump	Unknown	Concrete	1	Unknown
Waste oil - hydraulic	Oil tank	Metal working area	Tank	Unknown	Steel	1	Unknown
Waste oil - hydraulic	Oil/water	Metal working area	Drum	55	Steel	5	275
Waste oil - hydraulic	Syntilo-Castrol oil	Metal working area	Drum	5	Steel	2	10
Waste oil - hydraulic	Thread cutting oil	Metal working area	Drum	55	Steel	1	55
Waste oil - hydraulic	Used hydraulic oil	Metal working area	Drum	55	Steel	3	165
Waste oil - hydraulic	Waste oil	Metal working area	Drum	55	Steel	4	220
Waste oil - hydraulic	Compressor oil	New die cast area	Drum	55	Steel	1	27.5
Waste oil - hydraulic	Cutting oil	New die cast area	Tank	Unknown	Steel	1	Unknown
Waste oil - hydraulic	Fyrquel hydraulic oil dirty	New die cast area	Tank	Unknown	Steel	1	Unknown
Waste oil - hydraulic	Hydraulic oil	New die cast area	Drum	55	Steel	1	13.75
Waste oil - hydraulic	Lubricating oil	New die cast area	Other	5	Unknown	11	55
Waste oil - hydraulic	Motor oil	New die cast area	Bottle	1	Unknown	13	13
Waste oil - hydraulic	Oil	New die cast area	Drum	30	Steel	2	60
Waste oil - hydraulic	Oil	New die cast area	Drum	55	Steel	13	715
Waste oil - hydraulic	Oil	New die cast area	Machines	500	Steel	42	21,000
Waste oil - hydraulic	Tool oil	New die cast area	Drum	55	Steel	1	55
Waste oil - hydraulic	Waste oil	New die cast area	Drum	5	Steel	5	25
Waste oil - hydraulic	Waste oil	New die cast area	Drum	55	Steel	7	385
Waste oil - hydraulic	Waste oil	New die cast area	Other	10	Unknown	1	10
Waste oil - hydraulic	Waste oil	New die cast area	Drum	55	Steel	1	14
Waste oil - hydraulic	Waste oil	New die cast area	Drum	55	Unknown	6	330
Waste oil - hydraulic	Hydraulic oil	Old die cast area	Drum	10	Steel	1	10
Waste oil - hydraulic	Multi-purpose oil	Old die cast area	Drum	55	Steel	1	13.75
Waste oil - hydraulic	Waste oil	Paint spray booth	Other	55	Unknown	12	660
Waste oil - hydraulic	Waste oil	Parts storage area	Drum	55	Steel	1	55
Waste oil - hydraulic	3' x3' x4' oil storage container	Waste oil storage area	Tank	269	Steel	5	1345
Waste oil - hydraulic	Fyrquel hydraulic fluid	Waste oil storage area	Tank	13,000	Steel	1	13,000

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Waste oil - hydraulic	Waste oil	Waste oil storage area	Drum	55	Steel	10	137.5
Waste oil - hydraulic	Waste oil	Waste oil storage area	Tank	10,000	Steel	2	20,000
Waste oil - non soluble	Carb cleaner/multi-purpose lubricant	Old die cast area	Bottle	0.5	Plastic	1	0.5
Waste oil - soluble	Coolant waste	Grit blasting area	Tank	9,000	Steel	1	9,000
Waste oil - soluble	Oil	Grit blasting area	Bottle	1	Plastic	3	3
Waste oil - soluble	Airtool oil	Metal working area	Bottle	1	Plastic	22	22
Waste oil - soluble	Autotrans lubricant	Metal working area	Bottle	1	Plastic	5	5
Waste oil - soluble	Diecasting lubricant	Metal working area	Drum	55	Steel	4	220
Waste oil - soluble	Oil	Metal working area	Drum	20	Steel	1	5
Waste oil - soluble	Oil	Metal working area	Tank	150	Steel	1	150
Waste oil - soluble	Soluble oil	Metal working area	Other	50	Steel	1	50
Waste oil - soluble	Transmission fluid	Metal working area	Drum	20	Steel	1	20
Waste oil - soluble	Battery oil	New die cast area	Drum	55	Steel	1	55
Waste oil - soluble	Die cast lubricant	New die cast area	Drum	10	Steel	7	70
Waste oil - soluble	Oil	New die cast area	Drum	5	Steel	1	5
Waste oil - soluble	Oil	New die cast area	Drum	10	Steel	1	7.5
Waste oil - soluble	Soluble oil	New die cast area	Tank	1,000	Steel	3	3,000
Waste oil - soluble	Unknown	New die cast area	Bottle	1	Plastic	15	15
Waste paint	Waste paint	Chemical storage building	Other	5	Steel	2	10
Waste paint	Paints	Flammable room inside metal working area	Other	1	Steel	24	24
Waste paint	Paint	Flammable room inside metal working area	Can	1	Steel	12	12
Waste paint	Spray paint and paint	Metal working area	Cabinet	2' x 3' x 1'	Steel	1	45
Waste paint	Paint	New die cast area	Drum	1	Steel	25	25
Waste paint	Various spray lubes and paints	New die cast area	Other	NA	Steel	50	50
Waste paint	Paints and lubricants	Old die cast area	Other	5' x 3' cabinet	Steel	1	100
Waste paint	Acrylic	Paint spray booth	Drum	1	Steel	1	1
Waste paint	Black paint	Paint spray booth	Drum	15	Steel	2	30
Waste paint	Epoxy primer	Paint spray booth	Drum	55	Steel	1	55
Waste paint	H/S federal gray acrylic	Paint spray booth	Drum	55	Steel	1	55
Waste paint	H/S gloss black acrylic/blue	Paint spray booth	Drum	55	Steel	7	385
Waste paint	High solid epoxy primer	Paint spray booth	Drum	55	Steel	1	55
Waste paint	High solvent epoxy	Paint spray booth	Drum	55	Steel	1	55

TABLE B-1

OMC SITE INVENTORY
BY WASTE CATEGORY

Waste Category	Chemical Name	Location	Container Type	Capacity (gallons unless otherwise specified)	Container Material	Number of Containers	Total Volume (gallons unless otherwise specified)
Waste paint	Lite gray plastic primer	Paint spray booth	Drum	5	Steel	1	5
Waste paint	Non-metallic charcoal primer	Paint spray booth	Drum	55	Steel	1	55
Waste paint	Paint	Paint spray booth	Drum	1	Steel	3	3
Waste paint	Paint	Paint spray booth	Drum	5	Steel	54	270
Waste paint	Paint-charcoal gray metallic	Paint spray booth	Drum	5	Steel	1	5
Waste paint	Polyurethane	Paint spray booth	Drum	1	Steel	1	1
Waste paint	Silver acrylic	Paint spray booth	Other	5	Steel	1	5
Waste paint	White paint	Paint spray booth	Drum	1	Steel	2	2
Waste paint	Paint	Paint spray booth	Can	1	Unknown	6	6
Waste paint	Paint	Paint spray booth	Cans	1	Unknown	36	36
Waste paint	Paint	Paint spray booth	Drum	5	Plastic	1	5
Waste paint	Paint	Paint spray booth	Drum	55	Steel	1	55

Notes:

AST = Aboveground storage tank
HCl = Hydrochloric acid
lb = Pound
MEK = Methyl ethyl ketone
NA = Not applicable or not available
n.o.s. = Not otherwise specified
OMC = Outboard Marine Corporation
oz = Ounce
PCB = Polychlorinated biphenyl
TCE = Trichloroethylene
WWTS = Wastewater treatment system

TABLE B-2

OMC SITE INVENTORY
BY MANUFACTURER

Manufacturer	Address	Phone	Location	Chemical name	Number of Containers	Total Volume (gallons unless otherwise specified)
Allied Division Witco Corp	Unknown	Unknown	Metal working area	Super Seal Imprex Anti Rust	1	55
Allied-Kelite	2701 Lake St, Melrose Park, IL 60160	Unknown	Chemical storage building	Macco 400K	1	55
American Chemical Technologies	485 E. Van Riper Road, Fowler, MI 48836	Unknown	Chemical storage building	Petroleum hydrocarbon	1	Unknown
Ashland Chemical	PO Box 2219, Columbus, OH 43216	800-274-5263	Chemical storage building	Methane - PM 509 3 A	1	55
Benz Oil	2724 West Hampton Ave., Milwaukee, WI 53209	Unknown	Chemical storage building	Dexon 3 (transmission fluid)	1	55
			Chemical storage building	Petraspeed 22 Spindle Oil	1	55
			Chemical storage building	Petraulic 68 hydralube oil	1	55
			Chemical storage building	Petraulic 68 hydralube oil	2	110
			Chemical storage building	XB-62 (oil)	2	110
BIX	Unknown	615-792-3260	Paint spray booth	Paint stripper	1	0.5
Brent America, Inc.	5420 W. 140th St., Lake Bluff, IL	Unknown	Chemical storage building	Chem Add-6200 (accelerator) (contains sodium nitrite)	2	110
			Chemical storage building	Chem Cote 3307 (zinc phosphate)	4	220
			Chemical storage building	Pyrene 1063	1	55
			Chemical storage building	Rustproof 4202 (contains ethanolamine)	16	80
Castrol Industries Inc.	Downers Grove, IL 60515	Unknown	Metal working area	Syntilo-Castrol oil	2	10
			Chemical storage building	Rustilo 4145	1	55
Chemtool Inc.	Crystal Lake, IL	815-459-1250	Chemical storage building	CT 250-NC (Blue) metalworking fluid (petroleum distillates, hexylene glycol, and glutaraldehyde)	3	165
			Chemical storage building	Safety-Cool 407	1	55
			Chemical storage building	Die casting lubricant CT897-0	3	990

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OMC SITE INVENTORY
BY MANUFACTURER

Manufacturer	Address	Phone	Location	Chemical name	Number of Containers	Total Volume (gallons unless otherwise specified)
Coral Chemical Company	Unknown	Unknown	Chemical storage building	COR Pol 90 (potassium hydroxide)	2	110
			Chemical storage building	Lanolin Soft	3	165
Coral International	Waukegan, IL 60085	800-535-5053	Chemical storage building	Acid, liquid, n.o.s. (contains phosphoric acid, and hydrofluoric acid)	1	55
D.A. Stuart Co.	Warrenville, IL 60555		Chemical storage building	ThreadKut 7800 (cutting oil)	2	110
Drew Industrial Division - subsidiary of Ashland Oil	Boonton, NJ 07005		Chemical storage building	WRICO BGA	1	55
Fuchs Lubricant Co.	17050 Lathrop Avenue, Harvey, IL 60426	708-333-8900	Metal working area	Denolin WL 220 f	1	55
			Metal working area	EcoCut	1	55
			Metal working area	Lubricant	1	55
			Metal working area	Mel Kool	3	55
			Metal working area	Mel Kool	1	55
			Chemical storage building	Anticorit OL 1028 P MS	2	110
			Chemical storage building	ECOCUT 3225	7	385
			Chemical storage building	Ecoform Syn 902	4	220
			Chemical storage building	Lubricating grease	10	100
			Chemical storage building	Melkool 2326	4	220
			Chemical storage building	Metalite SGC-62	2	110
			Old die cast area	Metalite Super 844	1	Unknown
			Chemical storage building	ML-33-902	2	110
			Chemical storage building	Renoclean 400K	2	110
			Chemical storage building	RENOKOOL 207	2	110
GW Smith & Sons, Inc	1700 Spaulding Rd, Dayton, OH 45432	Unknown	Chemical storage building	Die Slick No. 606X	4	220
			Chemical storage building	No. 606X		Unknown
Hach	Unknown	Unknown	Chemical storage building	Hach chemicals	2	10

TABLE B-2

OMC SITE INVENTORY
BY MANUFACTURER

Manufacturer	Address	Phone	Location	Chemical name	Number of Containers	Total Volume (gallons unless otherwise specified)
Harry Miller Corp.	44th and Bristols St, Philadelphia, PA 19140	Unknown	Chemical storage building	Steelguard 1505-K-2	1	55
Henkel Surface Technologies	32100 Stephenson Hwy, Madison Hts, MI 48071	248-583-9300	Chemical storage building	Alodine 716 Replenisher corrosive liquid, toxic, n.o.s. (contains hydrofluoric acid and nitric acid); 8, UN2922, PGII, RQ chromic acid	1	27.5
			Chemical storage building	Potassium hydroxide solution	1	330
			Chemical storage building	Ridoline 337	1	55
			Chemical storage building	ridoline 337		Unknown
Industrial Finishing Systems	Unknown	Unknown	Chemical storage building	Almco 2510 - contains citric acid	2	110
JS Chemical	Georgia	Unknown	Chemical storage building	Process 711X Rust Inhibitor	2	110
Master Chemical Corporation	501 W. Boundary, Perrysburg, OH 43551	800-537-3365	Chemical storage building	Trim Sol (chemical emulsion concentrate)	1	55
Metal Lubricants Co.	17650 Lathrop Ave, Harvey, IL 60426	708-333-8900	Chemical storage building	MACCO 400K	2	110
Milport Enterprises, Inc.	Milwaukee, WI	414-769-7350	Chemical storage building	Phosphoric acid 75%	4	220
Mobil	Unknown	Unknown	Old die cast area	Hydraulic oil	1	10
			Chemical storage building	Mobilgear 629 industrial gear oil	1	55
			Chemical storage building	Mobilgear 634	1	55
			Old die cast area	Multipurpose oil	1	13.75
			Chemical storage building	Vactra Oil BB	1	55
			Chemical storage building	Vactra Oil No. 4	1	55
			Chemical storage building	Velocite Oil 3	1	55
Norros Corp.	Wheaton, IL	708-668-1164	Chemical storage building	Clean 550 (cleaning compound)	1	0.29 cubic yard
Oxychem (OCC)	Unknown	Unknown	Chemical storage building	Sodium silicate	1	55

TABLE B-2

OMC SITE INVENTORY
BY MANUFACTURER

Manufacturer	Address	Phone	Location	Chemical name	Number of Containers	Total Volume (gallons unless otherwise specified)
Parker Amchem	32100 Stephenson Highway, Madison Heights, MI 48071	810-583-9300	Old die cast area	Purcolene	1	55
			Old die cast area	Purco-plastic rinse	3	165
			Chemical storage building	Deoxidizer HX-357 Repl corrosive liquid, n.o.s. (contains fluorosilicic acid and sulfuric acid)	1	55
			Chemical storage building	Parco Cleaner 2353 - contains potassium hydroxide, sodium silicate	1	55
			Old die cast area	Pren-n-cote	1	55
			Paint spray booth	Rinse 205	1	55
Petron Corp.	Unknown	Unknown	Chemical storage building	Petro Dyne E.H.	1	55
Pierce/Stevenson Corp.	Unknown	Unknown	Paint spray booth	Peel	4	20
PPG Industrial Products	Unknown	304-843-1300	Old die cast area	Acrylic bake	1	5
			Paint spray booth	Epoxy high solid catalyst	1	55
			Paint spray booth	Epoxy primer	1	55
			Paint spray booth	H/S federal gray acrylic	1	55
			Paint spray booth	H/S gloss black acrylic/blue	7	385
			Paint spray booth	High solid epoxy primer	1	55
			Paint spray booth	High solvent epoxy	1	55
			Paint spray booth	Nonmetallic charcoal primer	1	55
			Paint spray booth	Paint - black	1	5
Safety Kleen	Unknown	Unknown	Old die cast area	Parts cleaner/solvent	4	110
			Chemical storage building	Premium Solvent	2	110
Sandpro	Port Byron, IL	800-747-1084	Chemical storage building	Perm E Pox HT; concrete sealant	5	0.13 cubic yard
SC Johnson	1525 Howe St, Racine, WI	Unknown	Chemical storage building	J Shop 600 cleaner		
			Paint spray booth	White paint	2	2
Standard Company	Unknown	312-225-2777	Metal working area	Stand-Power Up Cleaner	1	30

TABLE B-2

OMC SITE INVENTORY
BY MANUFACTURER

Manufacturer	Address	Phone	Location	Chemical name	Number of Containers	Total Volume (gallons unless otherwise specified)
VWR Scientific	Unknown	Unknown	Paint spray booth	99 Percent iso alcohol	1	5

Notes:

n.o.s. = Not otherwise specified
OMC = Outboard Marine Corporation

APPENDIX C

DATA VALIDATION REPORT AND VALIDATED ANALYTICAL RESULTS

Tetra Tech EM Inc.
200 E. Randolph Drive, Suite 4700 ◆ Chicago, IL 60601 ◆ (312) 856-8700 ◆ FAX (312) 938-0118

MEMORANDUM

Date: 16 Apr 02

To: Lisa Graczyk, Project Manager, Tetra Tech EM Inc. (Tetra Tech)
Superfund Technical Assessment and Response Team (START) for Region 5

From: Harry Ellis, Chemist, Tetra Tech START for Region 5

Subject: Data Validation for
Outboard Marine Corporation (OMC) Site
Waukegan, Illinois
Analytical Technical Direction Document (TDD) No. S05-0202-011
Project TDD No. S05-0202-004

Laboratory: Great Lakes Analytical (GLA), Buffalo Grove, Illinois
Work Orders No. B203071, B203080, B203081, B203082, B203085, B203086, B203087, and B203277
Volatile Organic Compound (VOC), Semivolatile Organic Compound (SVOC), Polychlorinated Biphenyl (PCB), Total Petroleum Hydrocarbons (TPH), Resource Conservation and Recovery Act (RCRA) Metals, Cyanide, Flashpoint, and pH Analysis of 4 Groundwater, 3 Soil, 3 Sediment, 53 Waste, and 70 Wipe Samples

1.0 INTRODUCTION

The Tetra Tech START for Region 5 evaluated VOC, SVOC, PCB, TPH (both volatile as gasoline and semivolatile as diesel fuel), RCRA metals, cyanide, flashpoint, and pH analytical data for 4 groundwater, 3 soil, 3 sediment, 53 waste, and 70 wipe samples collected on 05 and 06 Mar 02 from the OMC site in Waukegan, Illinois. Each sample was not analyzed for all parameters. The samples were analyzed under the above-referenced work orders by GLA using U.S. Environmental Protection Agency (U.S. EPA) SW-846 Methods 8260B for VOC analysis; 8270C for SVOC analysis; 8082 for PCB analysis; 8015 for TPH analysis; 6010B, 7470A, and 7471A for metals analysis; 9012A for cyanide analysis; and 9045B for

contains recycled fiber and is recyclable

pH analysis, and American Society for Testing and Materials (ASTM) Method D92-85 for flashpoint analysis.

The organic and inorganic data were evaluated in general accordance with U.S. EPA's "Contract Laboratory Program National Functional Guidelines for Organic Data Review" dated Oct 99 and "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" dated Feb 94, respectively. Organic data validation consisted of a review of the following quality control (QC) parameters: holding times, initial and continuing calibrations, blank results, matrix spike and matrix spike duplicate (MS/MSD) results, surrogate recovery results, and laboratory control sample (LCS) results. Inorganic data validation consisted of a review of the following QC parameters: holding times, initial and continuing calibrations, blank results, and MS/MSD results.

In most cases, samples from several work orders were analyzed together with common QC samples. Therefore, all investigative and QC sample results are discussed together below. Specifically, Section 2.0 discusses the results of the organic data validation, Section 3.0 discusses the results of the inorganic data validation, and Section 4.0 presents an overall assessment of the data. The attachment contains GLA's summary of sample analytical results. GLA labeled several samples as soil or water when the samples were actually solid or liquid samples collected from containers or floors at the OMC site.

2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's data validation for the organic analyses are summarized below in terms of the QC parameters reviewed. The data qualifiers below were applied to the sample analytical results where warranted (see the attachment).

- U - The analyte was not detected. The reported numerical value is the sample reporting limit.
- J - The analyte was detected. The reported numerical value is considered estimated for QC

reasons.

2.1 HOLDING TIMES

All samples were analyzed within the various holding time limits of the analyses.

2.2 INITIAL AND CONTINUING CALIBRATIONS

All relative standard deviations and correlation coefficients from the initial calibration results were within their respective QC limits. Continuing calibration results were within their QC limits except as described below.

During one analytical run, the first continuing calibration result for Aroclor 1260 had a 118 percent recovery, versus the QC limits of 85 to 115 percent. The Aroclor 1016 recovery in the same continuing calibration standard was fully acceptable. Associated positive results are flagged "J" as estimates. Because most of the associated samples were later reanalyzed at a dilution, only one Aroclor 1260 result required qualification.

During one analytical run for Work Order No. B203080, many of the semivolatile TPH continuing calibration results were irregular. In addition, these (and many of the other) samples contained compounds that were not similar to the diesel fuel used as a calibration standard. All positive results for samples associated with the irregular calibration results are flagged "J" to indicate that they are estimates.

2.3 BLANK RESULTS

A method blank was run with each analytical batch in the proper sequence. No target analytes were detected in the blanks at concentrations exceeding the instrument detection limits.

2.4 MS/MSD RESULTS

MS and MSD samples were analyzed with most sets of samples. No MS/MSD analyses were performed for the wipe samples. The percent recoveries for the MS and MSD and the relative percent difference (RPD) between the MS and MSD recoveries were usually within the various QC limits set by the laboratory.

The laboratory marked many of the results for the MS/MSD analyses for sample No. W-111A as outside the RPD limits. However, the MS/MSD results only slightly exceeded very stringent limits, such as 9.96 percent versus a QC limit of 9.42 percent. Therefore, no data qualifications were applied.

The PCB MS/MSD analysis for sample No. W-14 had an excessive RPD between the recoveries for both Aroclor 1016 and Aroclor 1260. The excessive RPDs were due to variable interference from other Aroclors in the unspiked sample. Because of the uncertain recoveries, the parent sample Aroclor result is flagged "J" to indicate that it is an estimate.

2.5 SURROGATE RECOVERY RESULTS

Surrogate recovery results were within their laboratory-derived QC limits except as described below.

During the VOC analysis of sample No. W-11, one surrogate had a low recovery because of interference from nontarget compounds. All VOC results for that sample are therefore flagged "J" or "UJ" as appropriate to indicate the irregular recovery.

Some of the surrogate recoveries from the PCB analyses of both field and laboratory (blank and LCS) samples were slightly outside their QC limits, but no qualifications are warranted for these minor discrepancies.

2.6 LCS RESULTS

An LCS was analyzed with each analytical batch, and LCS results were generally within the various QC limits. In some cases, especially during PCB analysis of LCS samples, results were outside the very stringent laboratory QC limits but still acceptable for data validation. Therefore, no qualifications were applied.

3.0 INORGANIC DATA VALIDATION RESULTS

The results of START's data validation for the inorganic analyses are summarized below in terms of the QC parameters reviewed. The data qualifiers below were applied to the sample analytical results where warranted (see the attachment).

- U - The analyte was not detected. The reported numerical value is the sample quantitation limit.
- J - The analyte was detected. The reported numerical value is considered estimated for QC reasons.
- UJ - The analyte was not detected. The sampler reporting limit is estimated for QC reasons.
- R - The result is rejected for QC reasons. The analyte may or may not be present.

3.1 HOLDING TIMES

All samples were analyzed within the various holding time limits.

3.2 INITIAL AND CONTINUING CALIBRATIONS

Initial and continuing calibrations were performed as required by the various analyses. All calibration results were within QC limits.

3.3 BLANK RESULTS

Blanks were analyzed with each analytical batch. No target analytes were detected in the blanks at concentrations exceeding the instrument detection limits.

3.4 MS/MSD RESULTS

MS/MSD analyses were performed as required, and most results were within QC limits except as discussed below.

The soil MS/MSD analyses had very low recoveries for mercury (12.8 and 9.0 percent versus the QC limit of 42.2 to 148 percent) and silver (15.6 and 19.5 percent versus the QC limit of 75 to 125 percent). Because of this matrix interference, all positive results for mercury and silver in soil samples are flagged "J" to indicate that they are estimates, and all nondetect mercury and silver results are flagged "R" to indicate that they are rejected. For the waste sample MS/MSD analyses, recoveries of selenium were 47.1 and 45.4 percent, just below the QC limit of 47.3 to 113 percent. The waste sample results for selenium are therefore flagged "UJ" to indicate that the sample reporting limits are estimated.

4.0 OVERALL ASSESSMENT OF DATA

Most of the sample analytical data generated by GLA are acceptable for use as qualified. The nondetect results for mercury and silver in soil samples were rejected because of extremely low MS/MSD recovery. This apparent matrix interference may be limited to the sample used for these analyses, but the inorganic

guidelines require qualification of all associated samples of the same matrix.

For the organic analyses, serious interference resulted from nontarget materials often identified by the laboratory as motor oil. This mixture was detected in most soil, water, and wipe samples and is consistent with hydraulic fluid or a very similar material. The semivolatile TPH results include some, but not all, of this mixture. Therefore, total organic carbon (TOC) analysis or a similar analysis would be necessary to determine the total organic compound content of these samples.

For the PCB analyses, the samples were fair to poor matches to the designated Aroclor mixtures (usually Aroclor 1248, sometimes Aroclor 1242). In part, this problem is apparently due to the environmental degradation of the original PCB mixtures. In addition, chromatographic PCB pattern matching was further complicated by interference from the nontarget mixture noted above, which persisted despite the laboratory's use of extract cleanup procedures. If the identification of PCB congeners is critical, they could be verified by the use of SW-846 Method 8270C or a similar mass spectroscopy technique calibrated for the PCB congeners.

ATTACHMENT

GLA SUMMARY OF SAMPLE ANALYTICAL RESULTS

(118 Sheets)

GREAT LAKES ANALYTICAL

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 07:58

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-02 (B203277-01) Water Sampled: 03/05/02 10:41 Received: 03/19/02 16:59									G5,G12
PCB-1016	ND	3.23	ug/l	1	2030291	03/19/02	03/20/02	EPA 8082	
PCB-1221	ND	3.23	"	"	"	"	"	"	
PCB-1232	ND	3.23	"	"	"	"	"	"	
PCB-1242	ND	3.23	"	"	"	"	"	"	
PCB-1248	ND	3.23	"	"	"	"	"	"	
PCB-1254	ND	3.23	"	"	"	"	"	"	
PCB-1260	ND	3.23	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*82.9 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*31.2 %*		*10-114*	"	"	"	"	
W-11 (B203277-02) Waste (L) Sampled: 03/05/02 11:50 Received: 03/19/02 16:59									
PCB-1016	ND	7500	ug/kg	1	2030290	03/19/02	03/19/02	EPA 8082	
PCB-1221	ND	7500	"	"	"	"	"	"	
PCB-1232	ND	7500	"	"	"	"	"	"	
PCB-1242	ND	7500	"	"	"	"	"	"	
PCB-1248	ND	7500	"	"	"	"	"	"	
PCB-1254	ND	7500	"	"	"	"	"	"	
PCB-1260	ND	7500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*121 %*		*10-173*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*72.4 %*		*10-192*	"	"	"	"	
W-17B (B203277-03) Water Sampled: 03/05/02 14:04 Received: 03/19/02 16:59									G5,G12
PCB-1016	ND	18.2	ug/l	1	2030291	03/19/02	03/21/02	EPA 8082	
PCB-1221	ND	18.2	"	"	"	"	"	"	
PCB-1232	ND	18.2	"	"	"	"	"	"	
PCB-1242	ND	18.2	"	"	"	"	"	"	
PCB-1248	ND	18.2	"	"	"	"	"	"	
PCB-1254	ND	18.2	"	"	"	"	"	"	
PCB-1260	ND	18.2	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*34.4 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*8.34 %*		*10-114*	"	"	"	"	*O4*

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	**Reported:**
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 07:58

Notes and Definitions

G12	The reporting limits have been elevated due to low sample volume.
G5	This sample was received past the method specified holdtime.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Andy Johnson

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Tetra Tech EMI - IL
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Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-01 (B203071-01) Wipe Sampled: 03/05/02 13:10 Received: 03/06/02 10:00									
PCB-1016	ND	1.00	ug/Wipe	2	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	1.00	"	"	"	"	"	"	
PCB-1232	ND	1.00	"	"	"	"	"	"	
PCB-1242	ND	1.00	"	"	"	"	"	"	
PCB-1248	**6.54**	1.00	"	"	"	"	"	"	
PCB-1254	ND	1.00	"	"	"	"	"	"	
PCB-1260	ND	1.00	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*19.9 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*10.8 %*	*11.8-117*		"	"	"	"	*O4*
Wipe-02 (B203071-02) Wipe Sampled: 03/05/02 13:15 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030090	03/07/02	03/07/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**3.19**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*53.7 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*52.5 %*	*11.8-117*		"	"	"	"	
Wipe-03 (B203071-03) Wipe Sampled: 03/05/02 13:20 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030090	03/07/02	03/07/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**3.95**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*102 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*98.1 %*	*11.8-117*		"	"	"	"	

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Andy Johnson

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-04 (B203071-04) Wipe Sampled: 03/05/02 13:25 Received: 03/06/02 10:00									
PCB-1016	ND	2.50	ug/Wipe	5	2030090	03/07/02	03/14/02	EPA 8082	
PCB-1221	ND	2.50	"	"	"	"	"	"	
PCB-1232	ND	2.50	"	"	"	"	"	"	
PCB-1242	ND	2.50	"	"	"	"	"	"	
PCB-1248	**3.44**	2.50	"	"	"	"	"	"	
PCB-1254	ND	2.50	"	"	"	"	"	"	
PCB-1260	ND	2.50	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*40.5 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*35.3 %*	*11.8-117*		"	"	"	"	
Wipe-05 (B203071-05) Wipe Sampled: 03/05/02 13:25 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030090	03/07/02	03/07/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**1.82**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*62.0 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*70.4 %*	*11.8-117*		"	"	"	"	
Wipe-06 (B203071-06) Wipe Sampled: 03/05/02 13:35 Received: 03/06/02 10:00									
PCB-1016	ND	500	ug/Wipe	1000	2030090	03/07/02	03/11/02	EPA 8082	
PCB-1221	ND	500	"	"	"	"	"	"	
PCB-1232	ND	500	"	"	"	"	"	"	
PCB-1242	ND	500	"	"	"	"	"	"	
PCB-1248	**1130**	500	"	"	"	"	"	"	
PCB-1254	ND	500	"	"	"	"	"	"	
PCB-1260	ND	500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*56.7 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*139 %*	*11.8-117*		"	"	"	"	*O5*

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Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-07 (B203071-07) Wipe Sampled: 03/05/02 13:40 Received: 03/06/02 10:00									
PCB-1016	ND	10.0	ug/Wipe	20	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	10.0	"	"	"	"	"	"	
PCB-1232	ND	10.0	"	"	"	"	"	"	
PCB-1242	ND	10.0	"	"	"	"	"	"	
PCB-1248	**111**	10.0	"	"	"	"	"	"	
PCB-1254	ND	10.0	"	"	"	"	"	"	
PCB-1260	ND	10.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*49.0 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*55.6 %*	*11.8-117*		"	"	"	"	
Wipe-08 (B203071-08) Wipe Sampled: 03/05/02 13:43 Received: 03/06/02 10:00									
PCB-1016	ND	10.0	ug/Wipe	20	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	10.0	"	"	"	"	"	"	
PCB-1232	ND	10.0	"	"	"	"	"	"	
PCB-1242	ND	10.0	"	"	"	"	"	"	
PCB-1248	**46.2**	10.0	"	"	"	"	"	"	
PCB-1254	ND	10.0	"	"	"	"	"	"	
PCB-1260	ND	10.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*89.6 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*109 %*	*11.8-117*		"	"	"	"	
Wipe-09 (B203071-09) Wipe Sampled: 03/05/02 13:45 Received: 03/06/02 10:00									
PCB-1016	ND	100	ug/Wipe	200	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	100	"	"	"	"	"	"	
PCB-1232	ND	100	"	"	"	"	"	"	
PCB-1242	ND	100	"	"	"	"	"	"	
PCB-1248	**567**	100	"	"	"	"	"	"	
PCB-1254	ND	100	"	"	"	"	"	"	
PCB-1260	ND	100	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*88.1 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*96.5 %*	*11.8-117*		"	"	"	"	

Great Lakes Analytical

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Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-10 (B203071-10) Wipe Sampled: 03/05/02 13:50 Received: 03/06/02 10:00									
PCB-1016	ND	2500	ug/Wipe	5000	2030090	03/07/02	03/11/02	EPA 8082	
PCB-1221	ND	2500	"	"	"	"	"	"	
PCB-1232	ND	2500	"	"	"	"	"	"	
PCB-1242	ND	2500	"	"	"	"	"	"	
PCB-1248	**9140**	2500	"	"	"	"	"	"	
PCB-1254	ND	2500	"	"	"	"	"	"	
PCB-1260	ND	2500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*71.6 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*45.8 %*	*11.8-117*		"	"	"	"	
Wipe-11 (B203071-11) Wipe Sampled: 03/05/02 13:55 Received: 03/06/02 10:00									
PCB-1016	ND	25.0	ug/Wipe	50	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	**87.5**	25.0	"	"	"	"	"	"	
PCB-1254	ND	25.0	"	"	"	"	"	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*46.3 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*90.2 %*	*11.8-117*		"	"	"	"	
Wipe-12 (B203071-12) Wipe Sampled: 03/05/02 14:00 Received: 03/06/02 10:00									
PCB-1016	ND	25.0	ug/Wipe	50	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	**92.9**	25.0	"	"	"	"	"	"	
PCB-1254	ND	25.0	"	"	"	"	"	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*26.8 %*	*10-110*		"	"	*03/07/02*	"	
Surrogate: Decachlorobiphenyl		*24.0 %*	*11.8-117*		"	"	"	"	

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-13 (B203071-13) Wipe Sampled: 03/05/02 14:05 Received: 03/06/02 10:00									
PCB-1016	ND	1.00	ug/Wipe	2	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	1.00	"	"	"	"	"	"	
PCB-1232	ND	1.00	"	"	"	"	"	"	
PCB-1242	ND	1.00	"	"	"	"	"	"	
PCB-1248	**1.90**	1.00	"	"	"	"	"	"	
PCB-1254	ND	1.00	"	"	"	"	"	"	
PCB-1260	ND	1.00	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*57.1 %*	*10-110*		"	"	*03/08/02*	"	
Surrogate: Decachlorobiphenyl		*92.8 %*	*11.8-117*		"	"	"	"	
Wipe-14 (B203071-14) Wipe Sampled: 03/05/02 14:05 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030090	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**3.08**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*85.9 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*132 %*	*11.8-117*		"	"	"	"	*O5*
Wipe-15 (B203071-15) Wipe Sampled: 03/05/02 14:08 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030090	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**2.03**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*70.3 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*98.2 %*	*11.8-117*		"	"	"	"	

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Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-16 (B203071-16) Wipe Sampled: 03/05/02 14:10 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030090	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**4.27**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*99.4 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*126 %*	*11.8-117*		"	"	"	"	O5
Wipe-17 (B203071-17) Wipe Sampled: 03/05/02 14:15 Received: 03/06/02 10:00									
PCB-1016	ND	5.00	ug/Wipe	10	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	5.00	"	"	"	"	"	"	
PCB-1232	ND	5.00	"	"	"	"	"	"	
PCB-1242	ND	5.00	"	"	"	"	"	"	
PCB-1248	**46.3**	5.00	"	"	"	"	"	"	
PCB-1254	ND	5.00	"	"	"	"	"	"	
PCB-1260	ND	5.00	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*26.7 %*	*10-110*		"	"	*03/08/02*	"	
Surrogate: Decachlorobiphenyl		*10.1 %*	*11.8-117*		"	"	"	"	O4
Wipe-18 (B203071-18) Wipe Sampled: 03/05/02 14:17 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030090	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**1.81**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*85.8 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*95.7 %*	*11.8-117*		"	"	"	"	

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Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-19 (B203071-19) Wipe Sampled: 03/05/02 14:20 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030090	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**2.51**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*26.4 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*23.5 %*	*11.8-117*		"	"	"	"	
Wipe-20 (B203071-20) Wipe Sampled: 03/05/02 14:25 Received: 03/06/02 10:00									
PCB-1016	ND	5.00	ug/Wipe	10	2030090	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	5.00	"	"	"	"	"	"	
PCB-1232	ND	5.00	"	"	"	"	"	"	
PCB-1242	ND	5.00	"	"	"	"	"	"	
PCB-1248	**19.1**	5.00	"	"	"	"	"	"	
PCB-1254	ND	5.00	"	"	"	"	"	"	
PCB-1260	ND	5.00	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*54.0 %*	*10-110*		"	"	*03/08/02*	"	
Surrogate: Decachlorobiphenyl		*45.1 %*	*11.8-117*		"	"	"	"	
Wipe-21 (B203071-21) Wipe Sampled: 03/05/02 14:27 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**82.0**	50.0	"	100	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*76.3 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*85.5 %*	*11.8-117*		"	"	"	"	

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Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-22 (B203071-22) Wipe Sampled: 03/05/02 14:45 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**361**	100	"	200	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*79.0 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*49.5 %*	*11.8-117*		"	"	"	"	
Wipe-23 (B203071-23) Wipe Sampled: 03/05/02 14:50 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**134**	100	"	200	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
B-1260	ND	0.500	"	"	"	"	"	"	
urrogate: Tetrachloro-meta-xylene		*79.8 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*100 %*	*11.8-117*		"	"	"	"	
Wipe-24 (B203071-24) Wipe Sampled: 03/05/02 14:53 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**86.7**	50.0	"	100	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*48.8 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*85.7 %*	*11.8-117*		"	"	"	"	

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Chicago IL, 60601	Project Manager: Lisa Graczyk	03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-25 (B203071-25) Wipe Sampled: 03/05/02 14:55 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**22.8**	10.0	"	20	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*61.1 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*60.3 %*	*11.8-117*		"	"	"	"	
Wipe-26 (B203071-26) Wipe Sampled: 03/05/02 15:00 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**1190**	250	"	500	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*39.6 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*46.7 %*	*11.8-117*		"	"	"	"	
Wipe-27 (B203071-27) Wipe Sampled: 03/05/02 15:05 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**22.1**	10.0	"	20	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*73.2 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*61.0 %*	*11.8-117*		"	"	"	"	

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Chicago IL, 60601	Project Manager: Lisa Graczyk	03/15/02 12:09

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-28 (B203071-28) Wipe Sampled: 03/05/02 15:10 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**74.5**	10.0	"	20	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*58.4 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*21.3 %*	*11.8-117*		"	"	"	"	
Wipe-29 (B203071-29) Wipe Sampled: 03/05/02 15:15 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**3.40** J	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*14.3 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*5.74 %*	*11.8-117*		"	"	"	"	*O4*
Wipe-30 (B203071-30) Wipe Sampled: 03/05/02 15:25 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**12.1**	5.00	"	10	"	"	03/11/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/08/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*78.6 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*52.5 %*	*11.8-117*		"	"	"	"	

1+ UG
26 Mar 02

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	**Reported:**
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/15/02 12:09

Notes and Definitions

O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Great Lakes Analytical

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Tetra Tech EMI - IL
0 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 09:51

General Chemistry
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-18 (B203080-01) Soil Sampled: 03/05/02 09:30 Received: 03/06/02 10:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-20 (B203080-03) Waste (L) Sampled: 03/05/02 10:02 Received: 03/06/02 10:00									
Flashpoint	**101**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-100 (B203080-04) Soil Sampled: 03/05/02 10:15 Received: 03/06/02 10:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-101 (B203080-05) Soil Sampled: 03/05/02 10:30 Received: 03/06/02 10:00									
Cyanide (total)	**1.73**	0.250	mg/kg	1	2030181	03/12/02	03/13/02	EPA 9012A	
pH	**9.74**		pH Units	"	2030110	03/07/02	03/07/02	EPA 9045B	
W-102 (B203080-06) Soil Sampled: 03/05/02 10:40 Received: 03/06/02 10:00									
Cyanide (total)	**20.2**	0.250	mg/kg	1	2030181	03/12/02	03/13/02	EPA 9012A	
pH	**9.53**		pH Units	"	2030110	03/07/02	03/07/02	EPA 9045B	
W-01 (B203080-07) Waste (L) Sampled: 03/05/02 10:25 Received: 03/06/02 10:00									
shpoint	**121**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-02 (B203080-08) Waste (L) Sampled: 03/05/02 10:41 Received: 03/06/02 10:00									
Flashpoint	**89.7**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-06 (B203080-10) Waste (L) Sampled: 03/05/02 11:10 Received: 03/06/02 10:00									
Flashpoint	**98.7**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	

Great Lakes Analytical

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Tetra Tech EMI - IL 30 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009 E0202004 Project Number: N/A Project Manager: Lisa Graczyk	**Reported:** 03/22/02 09:51

General Chemistry

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-09 (B203080-11) Water Sampled: 03/05/02 11:25 Received: 03/06/02 10:00									
Flashpoint	**86.7**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-10 (B203080-12) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00									
Flashpoint	**132**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-10D (B203080-13) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00									
Flashpoint	**126**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-13 (B203080-16) Water Sampled: 03/05/02 13:40 Received: 03/06/02 10:00									
pH	**13.4**		pH Units	1	2030111	03/07/02	03/07/02	EPA 9040B	
W-17B (B203080-20) Water Sampled: 03/05/02 14:04 Received: 03/06/02 10:00									
Flashpoint	**159**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
pH	**11.5**		pH Units	"	2030111	03/07/02	03/07/02	EPA 9040B	

Great Lakes Analytical

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tra Tech EMI - IL	Project: G9009 E0202004	
0 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-101 (B203080-05) Soil Sampled: 03/05/02 10:30 Received: 03/06/02 10:00									
Mercury	**0.120** J	0.0400	mg/kg	1	2030186	03/13/02	03/13/02	EPA 7471A	
Arsenic	ND	2.50	"	"	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	**1000**	25.0	"	"	"	"	"	"	QC
Cadmium	**25.0**	0.500	"	"	"	"	"	"	
Chromium	**410**	0.500	"	"	"	"	"	"	
Lead	**33.5**	1.00	"	"	"	"	"	"	
Selenium	ND	2.50	"	"	"	"	"	"	QC
Silver	**2.71** J	2.50	"	"	"	"	"	"	
W-102 (B203080-06) Soil Sampled: 03/05/02 10:40 Received: 03/06/02 10:00									
Mercury	**0.326** J	0.0800	mg/kg	2	2030186	03/13/02	03/13/02	EPA 7471A	
Arsenic	ND	2.50	"	1	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	**829**	25.0	"	"	"	"	"	"	QC
Cadmium	**407**	5.50	"	11	"	"	"	"	
Chromium	**4530**	5.50	"	"	"	"	"	"	
Lead	**54.9**	1.00	"	1	"	"	"	"	
Selenium	ND	2.50	"	"	"	"	"	"	QC
er	**43.9** J	2.50	"	"	"	"	"	"	
W-06 (B203080-10) Waste (L) Sampled: 03/05/02 11:10 Received: 03/06/02 10:00									
Mercury	ND	0.000200	mg/kg	1	2030098	03/07/02	03/07/02	EPA 7470A	QC
Arsenic	ND	0.0490	"	"	2030193	03/13/02	03/13/02	EPA 6010B	
Barium	ND	0.490	"	"	"	"	"	"	
Cadmium	**0.0289**	0.00979	"	"	"	"	"	"	
Chromium	**0.103**	0.00979	"	"	"	"	"	"	
Lead	**0.168**	0.0196	"	"	"	"	"	"	
Selenium	ND UJ	0.0490	"	"	"	"	"	"	
Silver	ND	0.0490	"	"	"	"	"	"	

HUE
26 Mar 02

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-14 (B203080-17) Soil Sampled: 03/05/02 15:34 Received: 03/06/02 10:00									
Mercury	**0.150** J	0.0400	mg/kg	1	2030186	03/13/02	03/13/02	EPA 7471A	
Arsenic	**5.21**	2.50	"	"	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	**141**	25.0	"	"	"	"	"	"	QC
Cadmium	**11.8**	0.500	"	"	"	"	"	"	
Chromium	**21300**	25.5	"	51	"	"	"	"	
Lead	**23.3**	1.00	"	1	"	"	"	"	
Selenium	ND	2.50	"	"	"	"	"	"	QC
Silver	ND R	2.50	"	"	"	"	"	"	

HJG
25 Mar 02

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-18 (B203080-01) Soil Sampled: 03/05/02 09:30 Received: 03/06/02 10:00									T4
Gasoline	**29.9**	5.00	mg/kg	50	2030132	03/08/02	03/12/02	EPA 8015M-VOA	
W-100 (B203080-04) Soil Sampled: 03/05/02 10:15 Received: 03/06/02 10:00									
Gasoline	ND	5.00	mg/kg	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-01 (B203080-07) Waste (L) Sampled: 03/05/02 10:25 Received: 03/06/02 10:00									T4
Gasoline	**752000**	100000	ug/kg	1000	2030175	03/12/02	03/12/02	EPA 8015M-VOA	
W-10 (B203080-12) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00									T4
Gasoline	**28900000**	1000000	ug/kg	10000	2030175	03/12/02	03/13/02	EPA 8015M-VOA	
W-10D (B203080-13) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00									T4
Gasoline	**31300000**	1000000	ug/kg	10000	2030175	03/12/02	03/13/02	EPA 8015M-VOA	
11 (B203080-14) Waste (L) Sampled: 03/05/02 11:50 Received: 03/06/02 10:00									T4
Gasoline	**40300**	5000	ug/kg	50	2030175	03/12/02	03/13/02	EPA 8015M-VOA	
W-15 (B203080-18) Water Sampled: 03/05/02 13:52 Received: 03/06/02 10:00									T4
Gasoline	**217000000**	5000000	ug/l	100000	2030174	03/12/02	03/13/02	EPA 8015M-VOA	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-19 (B203080-02) Waste (S) Sampled: 03/05/02 09:45 Received: 03/06/02 10:00									QC
Acetone	ND	1250	ug/kg	50	2030171	03/11/02	03/14/02	5030B/8260B	
Benzene	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
Bromoform	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
2-Butanone	ND	500	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Chlorodibromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	500	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	ND	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	250	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
Trichloroethene	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
Total Xylenes	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.0 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93.8 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*96.2 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-20 (B203080-03) Waste (L) Sampled: 03/05/02 10:02 Received: 03/06/02 10:00									**QC,G23**
Acetone	ND	25000	ug/kg	1000	2030171	03/11/02	03/14/02	5030B/8260B	
Benzene	ND	5000	"	"	"	"	"	"	
Bromodichloromethane	ND	5000	"	"	"	"	"	"	
Bromoform	ND	5000	"	"	"	"	"	"	
Bromomethane	ND	5000	"	"	"	"	"	"	
2-Butanone	ND	10000	"	"	"	"	"	"	
Carbon disulfide	ND	5000	"	"	"	"	"	"	
Carbon tetrachloride	ND	5000	"	"	"	"	"	"	
Chlorobenzene	ND	5000	"	"	"	"	"	"	
Chlorodibromomethane	ND	5000	"	"	"	"	"	"	
Chloroethane	ND	5000	"	"	"	"	"	"	
Chloroform	ND	5000	"	"	"	"	"	"	
Chloromethane	ND	5000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5000	"	"	"	"	"	"	
is-1,2-Dichloroethene	ND	5000	"	"	"	"	"	"	
2-Dichloropropane	ND	5000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5000	"	"	"	"	"	"	
Ethylbenzene	ND	5000	"	"	"	"	"	"	
2-Hexanone	ND	10000	"	"	"	"	"	"	
Methylene chloride	ND	5000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10000	"	"	"	"	"	"	
Styrene	ND	5000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5000	"	"	"	"	"	"	
Tetrachloroethene	ND	5000	"	"	"	"	"	"	
Toluene	ND	5000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5000	"	"	"	"	"	"	
Trichloroethene	ND	5000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5000	"	"	"	"	"	"	
Vinyl acetate	ND	10000	"	"	"	"	"	"	
Vinyl chloride	ND	5000	"	"	"	"	"	"	
Total Xylenes	ND	10000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.9 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.2 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*97.5 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*66.3-119*		"	"	"	"	

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'etra Tech EMI - IL	Project: G9009.E0202004	
)0 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-100 (B203080-04) Soil Sampled: 03/05/02 10:15 Received: 03/06/02 10:00									**O2,QC**
Acetone	**216**	200	ug/kg	50	2030133	03/08/02	03/12/02	5030A/8260B	
Benzene	ND	5.00	"	1	"	"	03/11/02	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	**382**	350	"	50	"	"	03/12/02	"	
Carbon disulfide	ND	5.00	"	1	"	"	03/11/02	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
'lorobenzene	ND	5.00	"	"	"	"	"	"	
.lorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	**6.13**	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
's-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
ıs-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	**101**	10.0	"	"	"	"	"	"	
Methylene chloride	**27.6**	5.00	"	"	"	"	"	"	A
4-Methyl-2-pentanone	**21.5**	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
ı etrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	**5.09**	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*132 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*91.4 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.6 %*	*66.3-119*		"	"	"	"	

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Andy Johnson

Andy Johnson, Project Manager

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Tetra Tech EMI - IL	Project: G9009 E0202004	
0 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-101 (B203080-05) Soil Sampled: 03/05/02 10:30 Received: 03/06/02 10:00									QC
Acetone	ND	25.0	ug/kg	1	2030133	03/08/02	03/11/02	5030A/8260B	
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
s-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	**24.2**	5.00	"	"	"	"	"	"	A
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
Tetrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	**10.9**	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.7 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*126 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*66.3-119*		"	"	"	"	

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-102 (B203080-06) Soil Sampled: 03/05/02 10:40 Received: 03/06/02 10:00									QC
Acetone	**737**	25.0	**ug/kg**	1	2030133	03/08/02	03/11/02	5030A/8260B	A
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	**26.9**	10.0	"	"	"	"	"	"	A
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
lorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
ıs-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	**165**	5.00	"	"	"	"	"	"	A
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
etrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	**5.02**	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*		*73.8-142*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*129 %*		*61.8-168*	"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*		*70.1-131*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.1 %*		*66.3-119*	"	"	"	"	

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Tetra Tech EMI - IL)0 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-01 (B203080-07) Waste (L) Sampled: 03/05/02 10:25 Received: 03/06/02 10:00									QC
Acetone	ND	250000	ug/kg	10000	2030171	03/11/02	03/11/02	5030B/8260B	
Benzene	ND	50000	"	"	"	"	"	"	
Bromodichloromethane	ND	50000	"	"	"	"	"	"	
Bromoform	ND	50000	"	"	"	"	"	"	
Bromomethane	ND	50000	"	"	"	"	"	"	
2-Butanone	ND	100000	"	"	"	"	"	"	
Carbon disulfide	ND	50000	"	"	"	"	"	"	
Carbon te[illegible]chloride	ND	50000	"	"	"	"	"	"	
Chlorobenzene	ND	50000	"	"	"	"	"	"	
Chlorodibromomethane	ND	50000	"	"	"	"	"	"	
Chloroethane	ND	50000	"	"	"	"	"	"	
Chloroform	ND	50000	"	"	"	"	"	"	
Chloromethane	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	50000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	50000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
,2-Dichloropropane	ND	50000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50000	"	"	"	"	"	"	
Ethylbenzene	ND	50000	"	"	"	"	"	"	
2-Hexanone	ND	100000	"	"	"	"	"	"	
Methylene chloride	ND	50000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100000	"	"	"	"	"	"	
Styrene	ND	50000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50000	"	"	"	"	"	"	
Tetrachloroethene	**143000**	50000	"	"	"	"	"	"	
Toluene	ND	50000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	50000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	50000	"	"	"	"	"	"	
Trichloroethene	ND	50000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	50000	"	"	"	"	"	"	
Vinyl acetate	ND	100000	"	"	"	"	"	"	
Vinyl chloride	ND	50000	"	"	"	"	"	"	
Total Xylenes	ND	100000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.8 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*66.3-119*		"	"	"	"	

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Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-02 (B203080-08) Waste (L) Sampled: 03/05/02 10:41 Received: 03/06/02 10:00									**QC**
Acetone	ND	1250	ug/kg	50	2030171	03/11/02	03/11/02	5030B/8260B	
Benzene	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
Bromoform	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
2-Butanone	ND	500	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
lorodibromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
is-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
2-Dichloropropane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	500	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
etrachloroethene	ND	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	250	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
Trichloroethene	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
Total Xylenes	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*112 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*66.3-119*		"	"	"	"	

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Tetra Tech EMI - IL	Project: G9009.E0202004	
30 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-05 (B203080-09) Water Sampled: 03/05/02 10:50 Received: 03/06/02 10:00									**G23,QC,O9**
Acetone	**527**	50.0	ug/l	5	2030172	03/12/02	03/14/02	5030B/8260B	A
Benzene	ND	10.0	"	"	"	"	"	"	
Bromodichloromethane	ND	10.0	"	"	"	"	"	"	
Bromoform	ND	10.0	"	"	"	"	"	"	
Bromomethane	ND	10.0	"	"	"	"	"	"	
2-Butanone	ND	50.0	"	"	"	"	"	"	
Carbon disulfide	ND	10.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	10.0	"	"	"	"	"	"	
Chlorobenzene	ND	10.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10.0	"	"	"	"	"	"	
Chloroethane	ND	10.0	"	"	"	"	"	"	
Chloroform	ND	10.0	"	"	"	"	"	"	
Chloromethane	ND	10.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10.0	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	10.0	"	"	"	"	"	"	
Ethylbenzene	ND	10.0	"	"	"	"	"	"	
2-Hexanone	ND	50.0	"	"	"	"	"	"	
Methylene chloride	ND	10.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50.0	"	"	"	"	"	"	
Styrene	ND	10.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10.0	"	"	"	"	"	"	
Tetrachloroethene	ND	10.0	"	"	"	"	"	"	
Toluene	ND	10.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**29.6**	10.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10.0	"	"	"	"	"	"	
Trichloroethene	ND	10.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10.0	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	10.0	"	"	"	"	"	"	
Total Xylenes	ND	20.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.2 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.8 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*82.2-110*	"	"	"	"	

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·etra Tech EMI - IL	Project: G9009.E0202004	
,0 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-06 (B203080-10) Waste (L) Sampled: 03/05/02 11:10 Received: 03/06/02 10:00									QC
Acetone	**4940**	1250	ug/kg	50	2030171	03/11/02	03/14/02	5030B/8260B	A
Benzene	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
Bromoform	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
2-Butanone	**720**	500	"	"	"	"	"	"	A
Carbon disulfide	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
,lorodibromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
,s-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
,2-Dichloropropane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	500	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
. etrachloroethene	ND	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	250	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
Trichloroethene	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
Total Xylenes	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.4 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88.8 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*91.6 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Andy Johnson, Project Manager

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-09 (B203080-11) Water Sampled: 03/05/02 11:25 Received: 03/06/02 10:00									QC
Acetone	ND	12500000	ug/kg	500000	2030171	03/11/02	03/13/02	5030B/8260B	
Benzene	ND	2500000	"	"	"	"	"	"	
Bromodichloromethane	ND	2500000	"	"	"	"	"	"	
Bromoform	ND	2500000	"	"	"	"	"	"	
Bromomethane	ND	2500000	"	"	"	"	"	"	
2-Butanone	ND	5000000	"	"	"	"	"	"	
Carbon disulfide	ND	2500000	"	"	"	"	"	"	
Carbon tetrachloride	ND	2500000	"	"	"	"	"	"	
Chlorobenzene	ND	2500000	"	"	"	"	"	"	
Chlorodibromomethane	ND	2500000	"	"	"	"	"	"	
Chloroethane	ND	2500000	"	"	"	"	"	"	
Chloroform	ND	2500000	"	"	"	"	"	"	
Chloromethane	ND	2500000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2500000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2500000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2500000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2500000	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	2500000	"	"	"	"	"	"	
2-Dichloropropane	ND	2500000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2500000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2500000	"	"	"	"	"	"	
Ethylbenzene	ND	2500000	"	"	"	"	"	"	
2-Hexanone	ND	5000000	"	"	"	"	"	"	
Methylene chloride	ND	2500000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5000000	"	"	"	"	"	"	
Styrene	ND	2500000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2500000	"	"	"	"	"	"	
Tetrachloroethene	ND	2500000	"	"	"	"	"	"	
Toluene	ND	2500000	"	"	"	"	"	"	
1,1,1-Trichloroethane	**265000000**	25000000	"	5000000	"	"	03/14/02	"	
1,1,2-Trichloroethane	ND	2500000	"	500000	"	"	03/13/02	"	
Trichloroethene	ND	2500000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2500000	"	"	"	"	"	"	
Vinyl acetate	ND	5000000	"	"	"	"	"	"	
Vinyl chloride	ND	2500000	"	"	"	"	"	"	
Total Xylenes	ND	5000000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*73.8-142*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*61.8-168*	"	"	"	"	
Surrogate: Toluene-d8		*114 %*		*70.1-131*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*		*66.3-119*	"	"	"	"	

Great Lakes Analytical

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Andy Johnson, Project Manager

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Tetra Tech EMI - IL	Project: G9009.E0202004	
10 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-10 (B203080-12) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00									QC
Acetone	ND	50000	ug/kg	2000	2030171	03/11/02	03/13/02	5030B/8260B	
Benzene	**16500**	10000	"	"	"	"	"	"	
Bromodichloromethane	ND	10000	"	"	"	"	"	"	
Bromoform	ND	10000	"	"	"	"	"	"	
Bromomethane	ND	10000	"	"	"	"	"	"	
2-Butanone	ND	20000	"	"	"	"	"	"	
Carbon disulfide	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	10000	"	"	"	"	"	"	
Chlorobenzene	ND	10000	"	"	"	"	"	"	
lorodibromomethane	ND	10000	"	"	"	"	"	"	
Chloroethane	ND	10000	"	"	"	"	"	"	
Chloroform	ND	10000	"	"	"	"	"	"	
Chloromethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
s-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
2-Dichloropropane	ND	10000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	
Ethylbenzene	**50900**	10000	"	"	"	"	"	"	
2-Hexanone	ND	20000	"	"	"	"	"	"	
Methylene chloride	ND	10000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	20000	"	"	"	"	"	"	
Styrene	ND	10000	"	"	"	"	"	"	
1,2,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	
etrachloroethene	**10100**	10000	"	"	"	"	"	"	
Toluene	**156000**	10000	"	"	"	"	"	"	
1,1,1-Trichloroethane	**564000**	50000	"	10000	"	"	03/13/02	"	
1,1,2-Trichloroethane	ND	10000	"	2000	"	"	03/13/02	"	
Trichloroethene	ND	10000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10000	"	"	"	"	"	"	
Vinyl acetate	ND	20000	"	"	"	"	"	"	
Vinyl chloride	ND	10000	"	"	"	"	"	"	
Total Xylenes	**285000**	20000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*73.8-142*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*		*61.8-168*	"	"	"	"	
Surrogate: Toluene-d8		*109 %*		*70.1-131*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*		*66.3-119*	"	"	"	"	

Great Lakes Analytical

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Andy Johnson, Project Manager

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Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-10D (B203080-13) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00									QC
Acetone	ND	50000	ug/kg	2000	2030171	03/11/02	03/13/02	5030B/8260B	
Benzene	**16900**	10000	"	"	"	"	"	"	
Bromodichloromethane	ND	10000	"	"	"	"	"	"	
Bromoform	ND	10000	"	"	"	"	"	"	
Bromomethane	ND	10000	"	"	"	"	"	"	
2-Butanone	ND	20000	"	"	"	"	"	"	
Carbon disulfide	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	10000	"	"	"	"	"	"	
Chlorobenzene	ND	10000	"	"	"	"	"	"	
Chlorodibromomethane	ND	10000	"	"	"	"	"	"	
Chloroethane	ND	10000	"	"	"	"	"	"	
Chloroform	ND	10000	"	"	"	"	"	"	
Chloromethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
2-Dichloropropane	ND	10000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"	
Ethylbenzene	**51400**	10000	"	"	"	"	"	"	
2-Hexanone	ND	20000	"	"	"	"	"	"	
Methylene chloride	ND	10000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	20000	"	"	"	"	"	"	
Styrene	ND	10000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	
Tetrachloroethene	**10800**	10000	"	"	"	"	"	"	
Toluene	**153000**	10000	"	"	"	"	"	"	
1,1,1-Trichloroethane	**600000**	50000	"	10000	"	"	03/13/02	"	
1,1,2-Trichloroethane	ND	10000	"	2000	"	"	03/13/02	"	
Trichloroethene	ND	10000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10000	"	"	"	"	"	"	
Vinyl acetate	ND	20000	"	"	"	"	"	"	
Vinyl chloride	ND	10000	"	"	"	"	"	"	
Total Xylenes	**286000**	20000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.2 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-01 (B203080-07) Waste (L) Sampled: 03/05/02 10:25 Received: 03/06/02 10:00									
PCB-1016	ND	7650	ug/kg	1	2030108	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	7650	"	"	"	"	"	"	
PCB-1232	ND	7650	"	"	"	"	"	"	
PCB-1242	ND	7650	"	"	"	"	"	"	
PCB-1248	ND	7650	"	"	"	"	"	"	
PCB-1254	ND	7650	"	"	"	"	"	"	
PCB-1260	ND	7650	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*91.3 %*		*10-173*		"	"	"	
Surrogate: Decachlorobiphenyl		*52.6 %*		*10-192*		"	"	"	
W-06 (B203080-10) Waste (L) Sampled: 03/05/02 11:10 Received: 03/06/02 10:00									
PCB-1016	ND	7580	ug/kg	1	2030108	03/07/02	03/11/02	EPA 8082	
PCB-1221	ND	7580	"	"	"	"	"	"	
PCB-1232	ND	7580	"	"	"	"	"	"	
PCB-1242	ND	7580	"	"	"	"	"	"	
PCB-1248	**21600**	7580	"	"	"	"	"	"	
PCB-1254	ND	7580	"	"	"	"	"	"	
PCB-1260	ND	7580	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*38.1 %*		*10-173*		"	"	"	
Surrogate: Decachlorobiphenyl		*129 %*		*10-192*		"	"	"	
W-10 (B203080-12) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00									
PCB-1016	ND	7730	ug/kg	1	2030108	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	7730	"	"	"	"	"	"	
PCB-1232	ND	7730	"	"	"	"	"	"	
PCB-1242	ND	7730	"	"	"	"	"	"	
PCB-1248	ND	7730	"	"	"	"	"	"	
PCB-1254	ND	7730	"	"	"	"	"	"	
PCB-1260	ND	7730	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*84.9 %*		*10-173*		"	"	"	
Surrogate: Decachlorobiphenyl		*91.4 %*		*10-192*		"	"	"	

Great Lakes Analytical

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Andy Johnson, Project Manager

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-10D (B203080-13) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00									
PCB-1016	ND	7500	ug/kg	1	2030108	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	7500	"	"	"	"	"	"	
PCB-1232	ND	7500	"	"	"	"	"	"	
PCB-1242	ND	7500	"	"	"	"	"	"	
PCB-1248	ND	7500	"	"	"	"	"	"	
PCB-1254	ND	7500	"	"	"	"	"	"	
PCB-1260	ND	7500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*101 %*		*10-173*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*61.7 %*		*10-192*	"	"	"	"	
W-14 (B203080-17) Soil Sampled: 03/05/02 15:34 Received: 03/06/02 10:00									
PCB-1016	ND	25.0	ug/kg	1	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	**51.9**	25.0	"	"	"	"	"	"	
PCB-1254	ND	25.0	"	"	"	"	"	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*35.4 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*45.5 %*		*10-110*	"	"	"	"	
W-16 (B203080-19) Waste (L) Sampled: 03/05/02 14:27 Received: 03/06/02 10:00									
PCB-1016	ND	8820	ug/kg	1	2030146	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	8820	"	"	"	"	"	"	
PCB-1232	ND	8820	"	"	"	"	"	"	
PCB-1242	ND	8820	"	"	"	"	"	"	
PCB-1248	ND	8820	"	"	"	"	"	"	
PCB-1254	ND	8820	"	"	"	"	"	"	
PCB-1260	ND	8820	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*64.4 %*		*10-173*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*22.5 %*		*10-192*	"	"	"	"	

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Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 09:51

Total Petroleum Hydrocarbons as Diesel by EPA 8015M

Great Lakes Analytical--Oak Creek

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-18 (B203080-01) Soil Sampled: 03/05/02 09:30 Received: 03/06/02 10:00										**QC,T13,T2**
Diesel	**3390**	J	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-100 (B203080-04) Soil Sampled: 03/05/02 10:15 Received: 03/06/02 10:00										**QC,G7,T11**
Diesel	**6620**	J	505	mg/kg	101	2030059	03/21/02	03/21/02	EPA 8015M	
W-01 (B203080-07) Waste (L) Sampled: 03/05/02 10:25 Received: 03/06/02 10:00										**T10,T11,T8**
Diesel	**116000**	J	10100	mg/l	101	2030029	03/11/02	03/13/02	EPA 8015M	
W-10 (B203080-12) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00										**T10,T11,T13**
sel	**295000**	J	10100	mg/l	101	2030029	03/11/02	03/13/02	EPA 8015M	
W-10D (B203080-13) Waste (L) Sampled: 03/05/02 11:37 Received: 03/06/02 10:00										**T10,T11,T13**
Diesel	**268000**	J	10100	mg/l	101	2030029	03/11/02	03/13/02	EPA 8015M	
W-11 (B203080-14) Waste (L) Sampled: 03/05/02 11:50 Received: 03/06/02 10:00										**T11**
Diesel	**33000**	J	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	
-15 (B203080-18) Water Sampled: 03/05/02 13:52 Received: 03/06/02 10:00										**T10,T8**
esel	**930000**	J	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	

HJG
26 Mar 02

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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Tetra Tech EMI - IL 0 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	**Reported:** 03/22/02 09:51

Notes and Definitions

>220	>220 °F
A	The concentration of the analyte detected in the sample is characteristic of a laboratory artifact.
G23	The sample was diluted due to the presence of high concentrations of non-target analytes.
G7	This sample was analyzed past the method specified holdtime.
O2	One or more internal standard recoveries were below the method specified acceptance criteria.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
O9	The pH of this volatile sample was checked prior to analysis and was found to be above the method specified pH of 2.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
T10	Diesel Range
T11	Motor Oil Range
T13	Several Large Peaks
T2	Late Peaks
T4	Gas Range
T8	Diesel Pattern
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
30 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

General Chemistry

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-28D (B203081-15) Soil Sampled: 03/05/02 14:30 Received: 03/06/02 12:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-29 (B203081-16) Soil Sampled: 03/05/02 14:45 Received: 03/06/02 12:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
pH	**9.48**		pH Units	"	2030110	03/07/02	03/07/02	EPA 9045B	
W-33 (B203081-17) Waste (L) Sampled: 03/05/02 15:05 Received: 03/06/02 12:00									
Flashpoint	**121**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-35 (B203081-18) Waste (S) Sampled: 03/05/02 15:00 Received: 03/06/02 12:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	

Great Lakes Analytical

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:38

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-22 (B203081-05) Soil Sampled: 03/05/02 14:20 Received: 03/06/02 12:00										
Mercury	**0.105**	J	0.0400	mg/kg wet	1	2030186	03/13/02	03/13/02	EPA 7471A	
Arsenic	ND		2.50	"	"	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	ND		25.0	"	"	"	"	"	"	QC
Cadmium	ND		0.500	"	"	"	"	"	"	
Chromium	**72.5**		0.500	"	"	"	"	"	"	
Lead	**33.4**		1.00	"	"	"	"	"	"	
Selenium	ND		2.50	"	"	"	"	"	"	QC
Silver	ND	R	2.50	"	"	"	"	"	"	
W-37A (B203081-12) Soil Sampled: 03/05/02 13:25 Received: 03/06/02 12:00										
Mercury	ND	R	0.0400	mg/kg wet	1	2030186	03/13/02	03/13/02	EPA 7471A	
Arsenic	ND		2.50	"	"	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	ND		25.0	"	"	"	"	"	"	QC
Cadmium	**0.591**		0.500	"	"	"	"	"	"	
Chromium	**61.3**		0.500	"	"	"	"	"	"	
Lead	**31.7**		1.00	"	"	"	"	"	"	
Selenium	ND		2.50	"	"	"	"	"	"	QC
Silver	ND	R	2.50	"	"	"	"	"	"	

1+NG
27 Mar 02

Great Lakes Analytical

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00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:38

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-22 (B203081-05) Soil Sampled: 03/05/02 14:20 Received: 03/06/02 12:00									**A-01**
Gasoline	ND	10.0	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-23 (B203081-06) Soil Sampled: 03/05/02 13:30 Received: 03/06/02 12:00									**T4**
Gasoline	**5.45**	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-24 (B203081-07) Soil Sampled: 03/05/02 13:45 Received: 03/06/02 12:00									
Gasoline	ND	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-25 (B203081-08) Soil Sampled: 03/05/02 13:55 Received: 03/06/02 12:00									**T4**
Gasoline	**48.7**	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	T13
W-26 (B203081-09) Waste (L) Sampled: 03/05/02 14:00 Received: 03/06/02 12:00									
Gasoline	ND	5000	ug/kg	50	2030175	03/12/02	03/13/02	EPA 8015M-VOA	
27 (B203081-10) Soil Sampled: 03/05/02 14:10 Received: 03/06/02 12:00									
Gasoline	ND	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-36 (B203081-11) Waste (L) Sampled: 03/05/02 13:15 Received: 03/06/02 12:00									
Gasoline	ND	5000	ug/kg	50	2030175	03/12/02	03/13/02	EPA 8015M-VOA	
W-28 (B203081-14) Soil Sampled: 03/05/02 14:30 Received: 03/06/02 12:00									
Gasoline	ND	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-28D (B203081-15) Soil Sampled: 03/05/02 14:30 Received: 03/06/02 12:00									
Gasoline	ND	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	

Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	**Reported:** 03/21/02 16:38

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-29 (B203081-16) Soil Sampled: 03/05/02 14:45 Received: 03/06/02 12:00									**T4**
Gasoline	**412**	50.0	mg/kg wet	500	2030132	03/08/02	03/11/02	EPA 8015M-VOA	T13
W-33 (B203081-17) Waste (L) Sampled: 03/05/02 15:05 Received: 03/06/02 12:00									**T4**
Gasoline	**19300**	5000	ug/kg	50	2030175	03/12/02	03/13/02	EPA 8015M-VOA	
W-35 (B203081-18) Waste (S) Sampled: 03/05/02 15:00 Received: 03/06/02 12:00									**T4**
Gasoline	**7300**	5000	ug/kg	50	2030157	03/11/02	03/12/02	EPA 8015M-VOA	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-103 (B203081-01) Water Sampled: 03/05/02 11:15 Received: 03/06/02 12:00									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	ND	2.00	"	"	"	"	"	"	
Total Xylenes	ND	4.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94.0 %*	*87.3-118*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*85.2-121*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*92.3-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*	*82.2-110*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
10 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-104 (B203081-02) Water Sampled: 03/05/02 11:30 Received: 03/06/02 12:00									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	ND	2.00	"	"	"	"	"	"	
Total Xylenes	ND	4.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.8 %*	*87.3-118*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*85.2-121*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*92.3-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*82.2-110*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
.00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-105 (B203081-03) Water Sampled: 03/05/02 11:45 Received: 03/06/02 12:00									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
lorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
uene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	ND	2.00	"	"	"	"	"	"	
Total Xylenes	ND	4.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.4 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*		*82.2-110*	"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:38

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-106 (B203081-04) Water Sampled: 03/05/02 12:00 Received: 03/06/02 12:00									QC
Acetone	**375**	100	ug/l	10	2030172	03/12/02	03/13/02	5030B/8260B	A
Benzene	ND	20.0	"	"	"	"	"	"	
Bromodichloromethane	ND	20.0	"	"	"	"	"	"	
Bromoform	ND	20.0	"	"	"	"	"	"	
Bromomethane	ND	20.0	"	"	"	"	"	"	
2-Butanone	**453**	100	"	"	"	"	"	"	A
Carbon disulfide	ND	20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20.0	"	"	"	"	"	"	
Chlorobenzene	ND	20.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	20.0	"	"	"	"	"	"	
Chloroethane	ND	20.0	"	"	"	"	"	"	
Chloroform	ND	20.0	"	"	"	"	"	"	
Chloromethane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	20.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethene	**29.6**	20.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**19600**	2000	"	1000	"	"	03/13/02	"	
·ns-1,2-Dichloroethene	ND	20.0	"	10	"	"	03/13/02	"	
,2-Dichloropropane	ND	20.0	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	ND	20.0	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
Methylene chloride	ND	20.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Styrene	ND	20.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	20.0	"	"	"	"	"	"	
Tetrachloroethene	ND	20.0	"	"	"	"	"	"	
Toluene	ND	20.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	20.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20.0	"	"	"	"	"	"	
Trichloroethene	**65.5**	20.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20.0	"	"	"	"	"	"	
Vinyl acetate	ND	20.0	"	"	"	"	"	"	
Vinyl chloride	ND	20.0	"	"	"	"	"	"	
Total Xylenes	ND	40.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.0 %*	*87.3-118*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.0 %*	*85.2-121*		"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*	*92.3-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*82.2-110*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-107 (B203081-13) Water Sampled: 03/05/02 15:20 Received: 03/06/02 12:00									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
lorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
oluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	ND	2.00	"	"	"	"	"	"	
Total Xylenes	ND	4.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.4 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*		*82.2-110*	"	"	"	"	

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.00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-103 (B203081-01) Water Sampled: 03/05/02 11:15 Received: 03/06/02 12:00									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**328**	100	"	200	"	"	03/14/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/10/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*35.2 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*48.3 %*		*10-114*	"	"	"	"	
W-104 (B203081-02) Water Sampled: 03/05/02 11:30 Received: 03/06/02 12:00									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**37.2**	10.0	"	20	"	"	03/14/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/10/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*47.0 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*39.0 %*		*10-114*	"	"	"	"	
W-105 (B203081-03) Water Sampled: 03/05/02 11:45 Received: 03/06/02 12:00									
PCB-1016	ND	1.85	ug/l	1	2030112	03/08/02	03/10/02	EPA 8082	
PCB-1221	ND	1.85	"	"	"	"	"	"	
PCB-1232	ND	1.85	"	"	"	"	"	"	
PCB-1242	ND	1.85	"	"	"	"	"	"	
PCB-1248	**94.9**	18.5	"	10	"	"	03/14/02	"	
PCB-1254	ND	1.85	"	1	"	"	03/10/02	"	
PCB-1260	ND	1.85	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*26.7 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*3.22 %*		*10-114*	"	"	"	"	*O4*

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Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:38

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-106 (B203081-04) Water Sampled: 03/05/02 12:00 Received: 03/06/02 12:00									
PCB-1016	ND	0.571	ug/l	1	2030112	03/08/02	03/14/02	EPA 8082	
PCB-1221	ND	0.571	"	"	"	"	"	"	
PCB-1232	ND	0.571	"	"	"	"	"	"	
PCB-1242	ND	0.571	"	"	"	"	"	"	
PCB-1248	**2.39**	0.571	"	"	"	"	"	"	
PCB-1254	ND	0.571	"	"	"	"	"	"	
PCB-1260	ND	0.571	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*2.99 %*		*10-110*	"	"	"	"	*O4*
Surrogate: Decachlorobiphenyl		*%*		*10-114*	"	"	"	"	*O4*
W-22 (B203081-05) Soil Sampled: 03/05/02 14:20 Received: 03/06/02 12:00									**QC**
PCB-1016	ND	124	ug/kg wet	1	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	124	"	"	"	"	"	"	
PCB-1232	ND	124	"	"	"	"	"	"	
PCB-1242	ND	124	"	"	"	"	"	"	
PCB-1248	ND	124	"	"	"	"	"	"	
PCB-1254	ND	124	"	"	"	"	"	"	
PCB-1260	ND	124	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*58.0 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*44.9 %*		*10-110*	"	"	"	"	
W-23 (B203081-06) Soil Sampled: 03/05/02 13:30 Received: 03/06/02 12:00									**QC**
PCB-1016	ND	187	ug/kg wet	1	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	187	"	"	"	"	"	"	
PCB-1232	ND	187	"	"	"	"	"	"	
PCB-1242	ND	187	"	"	"	"	"	"	
PCB-1248	**1210**	187	"	"	"	"	"	"	
PCB-1254	ND	187	"	"	"	"	"	"	
PCB-1260	ND	187	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*6.78 %*		*10-110*	"	"	"	"	*O4*
Surrogate: Decachlorobiphenyl		*%*		*10-110*	"	"	"	"	*O4*

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Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-24 (B203081-07) Soil Sampled: 03/05/02 13:45 Received: 03/06/02 12:00									QC
PCB-1016	ND	176	ug/kg wet	1	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	176	"	"	"	"	"	"	
PCB-1232	ND	176	"	"	"	"	"	"	
PCB-1242	ND	176	"	"	"	"	"	"	
PCB-1248	ND	176	"	"	"	"	"	"	
PCB-1254	ND	176	"	"	"	"	"	"	
PCB-1260	ND	176	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*0.148 %*	*10-110*		"	"	"	"	*O4*
Surrogate: Decachlorobiphenyl		*%*	*10-110*		"	"	"	"	*O4*
W-25 (B203081-08) Soil Sampled: 03/05/02 13:55 Received: 03/06/02 12:00									QC
PCB-1016	ND	207	ug/kg wet	1	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	207	"	"	"	"	"	"	
PCB-1232	ND	207	"	"	"	"	"	"	
PCB-1242	ND	207	"	"	"	"	"	"	
PCB-1248	**301**	207	"	"	"	"	"	"	
PCB-1254	ND	207	"	"	"	"	"	"	
PCB-1260	ND	207	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*11.1 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*10-110*		"	"	"	"	*O4*
W-26 (B203081-09) Waste (L) Sampled: 03/05/02 14:00 Received: 03/06/02 12:00									
PCB-1016	ND	7650	ug/kg	1	2030146	03/11/02	03/14/02	EPA 8082	
PCB-1221	ND	7650	"	"	"	"	"	"	
PCB-1232	ND	7650	"	"	"	"	"	"	
PCB-1242	ND	7650	"	"	"	"	"	"	
PCB-1248	ND	7650	"	"	"	"	"	"	
PCB-1254	ND	7650	"	"	"	"	"	"	
PCB-1260	ND	7650	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*72.2 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*10-192*		"	"	"	"	*O4*

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Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-27 (B203081-10) Soil Sampled: 03/05/02 14:10 Received: 03/06/02 12:00									QC
PCB-1016	ND	182	ug/kg wet	1	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	182	"	"	"	"	"	"	
PCB-1232	ND	182	"	"	"	"	"	"	
PCB-1242	ND	182	"	"	"	"	"	"	
PCB-1248	**559**	182	"	"	"	"	"	"	
PCB-1254	ND	182	"	"	"	"	"	"	
PCB-1260	ND	182	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*24.0 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*10-110*		"	"	"	"	*O4*
W-36 (B203081-11) Waste (L) Sampled: 03/05/02 13:15 Received: 03/06/02 12:00									
PCB-1016	ND	7650	ug/kg	1	2030108	03/07/02	03/11/02	EPA 8082	
PCB-1221	ND	7650	"	"	"	"	"	"	
PCB-1232	ND	7650	"	"	"	"	"	"	
PCB-1242	ND	7650	"	"	"	"	"	"	
PCB-1248	ND	7650	"	"	"	"	"	"	
PCB-1254	ND	7650	"	"	"	"	"	"	
PCB-1260	ND	7650	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*43.2 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*10-192*		"	"	"	"	*O4*
W-37A (B203081-12) Soil Sampled: 03/05/02 13:25 Received: 03/06/02 12:00									QC
PCB-1016	ND	284	ug/kg wet	1	2030122	03/08/02	03/12/02	EPA 8082	
PCB-1221	ND	284	"	"	"	"	"	"	
PCB-1232	ND	284	"	"	"	"	"	"	
PCB-1242	ND	284	"	"	"	"	"	"	
PCB-1248	ND	284	"	"	"	"	"	"	
PCB-1254	ND	284	"	"	"	"	"	"	
PCB-1260	ND	284	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*1.75 %*	*10-110*		"	"	"	"	*O4*
Surrogate: Decachlorobiphenyl		*33.6 %*	*10-110*		"	"	"	"	

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Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:38

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-107 (B203081-13) Water Sampled: 03/05/02 15:20 Received: 03/06/02 12:00									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**5270**	2500	"	5000	"	"	03/14/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/10/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*54.6 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*251 %*		*10-114*	"	"	"	"	*O5*
W-28 (B203081-14) Soil Sampled: 03/05/02 14:30 Received: 03/06/02 12:00									QC
PCB-1016	ND	254	ug/kg wet	1	2030122	03/08/02	03/14/02	EPA 8082	
PCB-1221	ND	254	"	"	"	"	"	"	
PCB-1232	ND	254	"	"	"	"	"	"	
PCB-1242	ND	254	"	"	"	"	"	"	
PCB-1248	**1040**	254	"	"	"	"	"	"	
PCB-1254	ND	254	"	"	"	"	"	"	
PCB-1260	ND	254	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*389 %*		*10-110*	"	"	"	"	*O5*
Surrogate: Decachlorobiphenyl		*%*		*10-110*	"	"	"	"	*O4*
W-28D (B203081-15) Soil Sampled: 03/05/02 14:30 Received: 03/06/02 12:00									QC
PCB-1016	ND	77.5	ug/kg wet	1	2030122	03/08/02	03/13/02	EPA 8082	QC
PCB-1221	ND	77.5	"	"	"	"	"	"	QC
PCB-1232	ND	77.5	"	"	"	"	"	"	QC
PCB-1242	ND	77.5	"	"	"	"	"	"	QC
PCB-1248	**564**	155	"	2	"	"	03/14/02	"	QC
PCB-1254	ND	77.5	"	1	"	"	03/13/02	"	QC
PCB-1260	ND	77.5	"	"	"	"	"	"	QC
Surrogate: Tetrachloro-meta-xylene		*165 %*		*10-110*	"	"	"	"	*O5*
Surrogate: Decachlorobiphenyl		*%*		*10-110*	"	"	"	"	*O4*

Great Lakes Analytical

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GREAT LAKES ANALYTICAL

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Tetra Tech EMI - IL	Project: G9009.E0202004	
.00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-29 (B203081-16) Soil Sampled: 03/05/02 14:45 Received: 03/06/02 12:00									QC
PCB-1016	ND	51.4	ug/kg wet	1	2030122	03/08/02	03/13/02	EPA 8082	
PCB-1221	ND	51.4	"	"	"	"	"	"	
PCB-1232	ND	51.4	"	"	"	"	"	"	
PCB-1242	ND	51.4	"	"	"	"	"	"	
PCB-1248	**1500**	514	"	10	"	"	03/14/02	"	
PCB-1254	ND	51.4	"	1	"	"	03/13/02	"	
PCB-1260	ND	51.4	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*7.90 %*	*10-110*		"	"	"	"	*O4*
Surrogate: Decachlorobiphenyl		*9.74 %*	*10-110*		"	"	"	"	*O4*
W-33 (B203081-17) Waste (L) Sampled: 03/05/02 15:05 Received: 03/06/02 12:00									
PCB-1016	ND	7730	ug/kg	1	2030108	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	7730	"	"	"	"	"	"	
PCB-1232	ND	7730	"	"	"	"	"	"	
PCB-1242	ND	7730	"	"	"	"	"	"	
PCB-1248	**23700**	7730	"	"	"	"	"	"	
PCB-1254	ND	7730	"	"	"	"	"	"	
PCB-1260	ND	7730	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*41.8 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*889 %*	*10-192*		"	"	"	"	*O5*
W-35 (B203081-18) Waste (S) Sampled: 03/05/02 15:00 Received: 03/06/02 12:00									
PCB-1016	ND	7080	ug/kg	1	2030108	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	7080	"	"	"	"	"	"	
PCB-1232	ND	7080	"	"	"	"	"	"	
PCB-1242	ND	7080	"	"	"	"	"	"	
PCB-1248	**14200**	7080	"	"	"	"	"	"	
PCB-1254	ND	7080	"	"	"	"	"	"	
PCB-1260	ND	7080	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*31.0 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*10-192*		"	"	"	"	*O4*

Great Lakes Analytical

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Tetra Tech EMI - IL 30 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/21/02 16:38

Total Petroleum Hydrocarbons as Diesel by EPA 8015M

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-22 (B203081-05) Soil Sampled: 03/05/02 14:20 Received: 03/06/02 12:00									**T13,T10,QC**
Diesel	**8490**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-23 (B203081-06) Soil Sampled: 03/05/02 13:30 Received: 03/06/02 12:00									**T11,QC**
Diesel	**2600**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-24 (B203081-07) Soil Sampled: 03/05/02 13:45 Received: 03/06/02 12:00									**T11,QC**
Diesel	**2780**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-25 (B203081-08) Soil Sampled: 03/05/02 13:55 Received: 03/06/02 12:00									**T15,T2,QC**
Diesel	**13400**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-26 (B203081-09) Waste (L) Sampled: 03/05/02 14:00 Received: 03/06/02 12:00									**T11,T15,QC**
Diesel	**183000**	10100	mg/l	101	2030029	03/11/02	03/13/02	EPA 8015M	
W-27 (B203081-10) Soil Sampled: 03/05/02 14:10 Received: 03/06/02 12:00									**T11,QC**
Diesel	**2610**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-36 (B203081-11) Waste (L) Sampled: 03/05/02 13:15 Received: 03/06/02 12:00									**T11,T15,QC**
Diesel	**135000**	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	
W-28 (B203081-14) Soil Sampled: 03/05/02 14:30 Received: 03/06/02 12:00									**T11,QC**
Diesel	**2180**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-28D (B203081-15) Soil Sampled: 03/05/02 14:30 Received: 03/06/02 12:00									**T11,QC**
Diesel	**1820**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	

Great Lakes Analytical

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Total Petroleum Hydrocarbons as Diesel by EPA 8015M

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-29 (B203081-16) Soil Sampled: 03/05/02 14:45 Received: 03/06/02 12:00									**T11,T15,QC**
Diesel	**873**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-33 (B203081-17) Waste (L) Sampled: 03/05/02 15:05 Received: 03/06/02 12:00									**T11,T15,QC**
Diesel	**56300**	10100	mg/l	101	2030029	03/11/02	03/13/02	EPA 8015M	
W-35 (B203081-18) Waste (S) Sampled: 03/05/02 15:00 Received: 03/06/02 12:00									**T11,QC**
Diesel	**4460**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	

Great Lakes Analytical

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:38

Notes and Definitions

>220	>220 °F
A	The concentration of the analyte detected in the sample is characteristic of a laboratory artifact.
A-01	This sample has elevated reporting limits because matrix absorbed methanol. Extra methanol had to be added.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
T10	Diesel Range
T11	Motor Oil Range
T13	Several Large Peaks
T15	Late Elevated Baseline
T2	Late Peaks
T4	Gas Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Great Lakes Analytical

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL. 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:56

General Chemistry

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-52 (B203082-02) Waste (L) Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									
Flashpoint	**83.4**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-52D (B203082-03) Waste (L) Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									
Flashpoint	**83.2**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-37B (B203082-04) Soil Sampled: 03/05/02 16:35 Received: 03/06/02 10:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-38 (B203082-05) Waste (S) Sampled: 03/05/02 16:40 Received: 03/06/02 10:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-39 (B203082-06) Waste (S) Sampled: 03/05/02 16:50 Received: 03/06/02 10:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-40 (B203082-07) Soil Sampled: 03/05/02 16:55 Received: 03/06/02 10:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
-51 (B203082-08) Waste (L) Sampled: 03/05/02 16:20 Received: 03/06/02 10:00									
Flashpoint	**136**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-45 (B203082-09) Soil Sampled: 03/05/02 16:05 Received: 03/06/02 10:00									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-108 (B203082-10) Waste (L) Sampled: 03/05/02 15:55 Received: 03/06/02 10:00									
Flashpoint	**141**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	

Great Lakes Analytical

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.00 E. Randolph Suite 4700	Project Number: N/A	**Reported:**
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:56

General Chemistry
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-109 Top Layer (B203082-11) Waste (L) Sampled: 03/05/02 16:10 Received: 03/06/02 10:00									
Flashpoint	**111**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-110 (B203082-12) Water Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									
pH	**9.08**		pH Units	1	2030218	03/14/02	03/14/02	EPA 9040B	
W-109 Bottom Layer (B203082-22) Waste (L) Sampled: 03/05/02 16:10 Received: 03/06/02 10:00									
pH	**11.9**		pH Units	1	2030218	03/14/02	03/14/02	EPA 9040B	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:56

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-52 (B203082-02) Waste (L) Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									
Mercury	**0.00106**	0.000200	mg/kg	1	2030098	03/07/02	03/07/02	EPA 7470A	QC
Arsenic	**0.944**	0.236	"	"	2030193	03/13/02	03/13/02	EPA 6010B	
Barium	**64.1**	2.36	"	"	"	"	"	"	
Cadmium	ND	0.0472	"	"	"	"	"	"	
Chromium	ND	0.0472	"	"	"	"	"	"	
Lead	**0.169**	0.0943	"	"	"	"	"	"	
Selenium	**3.96** J	0.236	"	"	"	"	"	"	
Silver	ND	0.236	"	"	"	"	"	"	QC
V-52D (B203082-03) Waste (L) Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									
Mercury	**0.000889**	0.000200	mg/kg	1	2030098	03/07/02	03/07/02	EPA 7470A	QC
Arsenic	**0.981**	0.245	"	"	2030193	03/13/02	03/13/02	EPA 6010B	
Barium	**77.7**	2.45	"	"	"	"	"	"	
Cadmium	ND	0.0490	"	"	"	"	"	"	
Chromium	ND	0.0490	"	"	"	"	"	"	
Lead	**0.346**	0.0980	"	"	"	"	"	"	
Selenium	**4.29** J	0.245	"	"	"	"	"	"	
Silver	ND	0.245	"	"	"	"	"	"	QC

HVE
27 Mar 02

Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/21/02 16:56

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-37B (B203082-04) Soil Sampled: 03/05/02 16:35 Received: 03/06/02 10:00									
Gasoline	ND	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-38 (B203082-05) Waste (S) Sampled: 03/05/02 16:40 Received: 03/06/02 10:00									T4
Gasoline	**15600**	5000	ug/kg	50	2030157	03/11/02	03/12/02	EPA 8015M-VOA	
W-39 (B203082-06) Waste (S) Sampled: 03/05/02 16:50 Received: 03/06/02 10:00									T4
Gasoline	**9450**	5000	ug/kg	50	2030157	03/11/02	03/12/02	EPA 8015M-VOA	
W-40 (B203082-07) Soil Sampled: 03/05/02 16:55 Received: 03/06/02 10:00									
Gasoline	ND	5.00	mg/kg wet	50	2030132	03/08/02	03/12/02	EPA 8015M-VOA	
W-51 (B203082-08) Waste (L) Sampled: 03/05/02 16:20 Received: 03/06/02 10:00									T4
Gasoline	**11800**	5000	ug/kg	50	2030175	03/12/02	03/13/02	EPA 8015M-VOA	
-45 (B203082-09) Soil Sampled: 03/05/02 16:05 Received: 03/06/02 10:00									
Gasoline	ND	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-108 (B203082-10) Waste (L) Sampled: 03/05/02 15:55 Received: 03/06/02 10:00									T4
Gasoline	**5610**	5000	ug/kg	50	2030175	03/12/02	03/13/02	EPA 8015M-VOA	

Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/21/02 16:56

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-21 (B203082-01) Water Sampled: 03/05/02 16:15 Received: 03/06/02 10:00									QC
Acetone	ND	125000	ug/kg	5000	2030171	03/11/02	03/12/02	5030B/8260B	
Benzene	ND	25000	"	"	"	"	"	"	
Bromodichloromethane	ND	25000	"	"	"	"	"	"	
Bromoform	ND	25000	"	"	"	"	"	"	
Bromomethane	ND	25000	"	"	"	"	"	"	
2-Butanone	**906000000**	50000000	"	5000000	"	"	03/14/02	"	
Carbon disulfide	ND	25000	"	5000	"	"	03/12/02	"	
Carbon tetrachloride	ND	25000	"	"	"	"	"	"	
Chlorobenzene	ND	25000	"	"	"	"	"	"	
hlorodibromomethane	ND	25000	"	"	"	"	"	"	
Chloroethane	ND	25000	"	"	"	"	"	"	
Chloroform	ND	25000	"	"	"	"	"	"	
Chloromethane	ND	25000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25000	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	25000	"	"	"	"	"	"	
,2-Dichloropropane	ND	25000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	25000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	25000	"	"	"	"	"	"	
Ethylbenzene	ND	25000	"	"	"	"	"	"	
2-Hexanone	ND	50000	"	"	"	"	"	"	
Methylene chloride	ND	25000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50000	"	"	"	"	"	"	
Styrene	ND	25000	"	"	"	"	"	"	
',1,2,2-Tetrachloroethane	ND	25000	"	"	"	"	"	"	
Tetrachloroethene	ND	25000	"	"	"	"	"	"	
Toluene	ND	25000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25000	"	"	"	"	"	"	
Trichloroethene	ND	25000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25000	"	"	"	"	"	"	
Vinyl acetate	ND	50000	"	"	"	"	"	"	
Vinyl chloride	ND	25000	"	"	"	"	"	"	
Total Xylenes	ND	50000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*		*73.8-142*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*120 %*		*61.8-168*	"	"	"	"	
Surrogate: Toluene-d8		*112 %*		*70.1-131*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*		*66.3-119*	"	"	"	"	

Great Lakes Analytical

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)0 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:56

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-52 (B203082-02) Waste (L) Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									QC
Acetone	ND	250000	ug/kg	10000	2030171	03/11/02	03/13/02	5030B/8260B	
Benzene	ND	50000	"	"	"	"	"	"	
Bromodichloromethane	ND	50000	"	"	"	"	"	"	
Bromoform	ND	50000	"	"	"	"	"	"	
Bromomethane	ND	50000	"	"	"	"	"	"	
2-Butanone	**158000**	100000	"	"	"	"	"	"	
Carbon disulfide	ND	50000	"	"	"	"	"	"	
Carbon tetrachloride	ND	50000	"	"	"	"	"	"	
Chlorobenzene	ND	50000	"	"	"	"	"	"	
Chlorodibromomethane	ND	50000	"	"	"	"	"	"	
Chloroethane	ND	50000	"	"	"	"	"	"	
Chloroform	ND	50000	"	"	"	"	"	"	
Chloromethane	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	50000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	50000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
ıs-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
2-Dichloropropane	ND	50000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50000	"	"	"	"	"	"	
Ethylbenzene	**798000**	50000	"	"	"	"	"	"	
2-Hexanone	ND	100000	"	"	"	"	"	"	
Methylene chloride	ND	50000	"	"	"	"	"	"	
4-Methyl-2-pentanone	**520000**	100000	"	"	"	"	"	"	
Styrene	ND	50000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50000	"	"	"	"	"	"	
Tetrachloroethene	ND	50000	"	"	"	"	"	"	
Toluene	**148000**	50000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	50000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	50000	"	"	"	"	"	"	
Trichloroethene	ND	50000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	50000	"	"	"	"	"	"	
Vinyl acetate	ND	100000	"	"	"	"	"	"	
Vinyl chloride	ND	50000	"	"	"	"	"	"	
Total Xylenes	**3800000**	100000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.7 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*98.3 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/21/02 16:56

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-52D (B203082-03) Waste (L) Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									QC
Acetone	ND	250000	ug/kg	10000	2030171	03/11/02	03/13/02	5030B/8260B	
Benzene	ND	50000	"	"	"	"	"	"	
Bromodichloromethane	ND	50000	"	"	"	"	"	"	
Bromoform	ND	50000	"	"	"	"	"	"	
Bromomethane	ND	50000	"	"	"	"	"	"	
2-Butanone	ND	100000	"	"	"	"	"	"	
Carbon disulfide	ND	50000	"	"	"	"	"	"	
Carbon tetrachloride	ND	50000	"	"	"	"	"	"	
Chlorobenzene	ND	50000	"	"	"	"	"	"	
hlorodibromomethane	ND	50000	"	"	"	"	"	"	
Chloroethane	ND	50000	"	"	"	"	"	"	
Chloroform	ND	50000	"	"	"	"	"	"	
Chloromethane	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	50000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	50000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
2-Dichloropropane	ND	50000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50000	"	"	"	"	"	"	
Ethylbenzene	**904000**	50000	"	"	"	"	"	"	
2-Hexanone	ND	100000	"	"	"	"	"	"	
Methylene chloride	ND	50000	"	"	"	"	"	"	
4-Methyl-2-pentanone	**367000**	100000	"	"	"	"	"	"	
Styrene	ND	50000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50000	"	"	"	"	"	"	
etrachloroethene	ND	50000	"	"	"	"	"	"	
Toluene	**173000**	50000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	50000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	50000	"	"	"	"	"	"	
Trichloroethene	ND	50000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	50000	"	"	"	"	"	"	
Vinyl acetate	ND	100000	"	"	"	"	"	"	
Vinyl chloride	ND	50000	"	"	"	"	"	"	
Total Xylenes	**4390000**	100000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91.4 %*		*73.8-142*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*87.7 %*		*61.8-168*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*70.1-131*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*66.3-119*	"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:56

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-109 Top Layer (B203082-11) Waste (L)	**Sampled: 03/05/02 16:10**		**Received: 03/06/02 10:00**						QC
Acetone	ND	1250	ug/kg	50	2030171	03/11/02	03/14/02	5030B/8260B	
Benzene	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
Bromoform	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
2-Butanone	**1270**	500	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Chlorodibromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
2-Dichloropropane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	500	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	ND	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	**290**	250	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
Trichloroethene	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
Total Xylenes	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/21/02 16:56

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-37B (B203082-04) Soil Sampled: 03/05/02 16:35 Received: 03/06/02 10:00									QC
PCB-1016	ND	25.0	ug/kg wet	1	2030122	03/08/02	03/10/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	**706**	500	"	20	"	"	03/14/02	"	
PCB-1254	ND	25.0	"	1	"	"	03/10/02	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*38.1 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*23.3 %*	*10-110*		"	"	"	"	
-38 (B203082-05) Waste (S) Sampled: 03/05/02 16:40 Received: 03/06/02 10:00									
PCB-1016	ND	7350	ug/kg	1	2030108	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	7350	"	"	"	"	"	"	
PCB-1232	ND	7350	"	"	"	"	"	"	
PCB-1242	ND	7350	"	"	"	"	"	"	
PCB-1248	ND	7350	"	"	"	"	"	"	
PCB-1254	ND	7350	"	"	"	"	"	"	
B-1260	ND	7350	"	"	"	"	"	"	
urrogate: Tetrachloro-meta-xylene		*48.2 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*16.1 %*	*10-192*		"	"	"	"	
W-39 (B203082-06) Waste (S) Sampled: 03/05/02 16:50 Received: 03/06/02 10:00									
PCB-1016	ND	7580	ug/kg	1	2030108	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	7580	"	"	"	"	"	"	
PCB-1232	ND	7580	"	"	"	"	"	"	
PCB-1242	ND	7580	"	"	"	"	"	"	
B-1248	ND	7580	"	"	"	"	"	"	
B-1254	ND	7580	"	"	"	"	"	"	
PCB-1260	ND	7580	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*53.2 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*18.0 %*	*10-192*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:56

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-40 (B203082-07) Soil Sampled: 03/05/02 16:55 Received: 03/06/02 10:00									QC
PCB-1016	ND	160	ug/kg wet	1	2030122	03/08/02	03/15/02	EPA 8082	
PCB-1221	ND	160	"	"	"	"	"	"	
PCB-1232	ND	160	"	"	"	"	"	"	
PCB-1242	ND	160	"	"	"	"	"	"	
PCB-1248	ND	160	"	"	"	"	"	"	
PCB-1254	ND	160	"	"	"	"	"	"	
PCB-1260	ND	160	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*139 %*	*10-110*		"	"	"	"	*O5*
Surrogate: Decachlorobiphenyl		*293 %*	*10-110*		"	"	"	"	*O5*
W-51 (B203082-08) Waste (L) Sampled: 03/05/02 16:20 Received: 03/06/02 10:00									
PCB-1016	ND	7810	ug/kg	1	2030108	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	7810	"	"	"	"	"	"	
PCB-1232	ND	7810	"	"	"	"	"	"	
PCB-1242	ND	7810	"	"	"	"	"	"	
PCB-1248	ND	7810	"	"	"	"	"	"	
PCB-1254	ND	7810	"	"	"	"	"	"	
PCB-1260	ND	7810	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*87.5 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*24.0 %*	*10-192*		"	"	"	"	
W-45 (B203082-09) Soil Sampled: 03/05/02 16:05 Received: 03/06/02 10:00									QC
PCB-1016	ND	254	ug/kg wet	1	2030122	03/08/02	03/15/02	EPA 8082	
PCB-1221	ND	254	"	"	"	"	"	"	
PCB-1232	ND	254	"	"	"	"	"	"	
PCB-1242	ND	254	"	"	"	"	"	"	
PCB-1248	ND	254	"	"	"	"	"	"	
PCB-1254	ND	254	"	"	"	"	"	"	
PCB-1260	ND	254	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*372 %*	*10-110*		"	"	"	"	*O5*
Surrogate: Decachlorobiphenyl		*410 %*	*10-110*		"	"	"	"	*O5*

Great Lakes Analytical

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Tetra Tech EMI - IL
)0 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009 E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:56

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-108 (B203082-10) Waste (L) Sampled: 03/05/02 15:55 Received: 03/06/02 10:00									
PCB-1016	ND	7500	ug/kg	1	2030108	03/07/02	03/08/02	EPA 8082	
PCB-1221	ND	7500	"	"	"	"	"	"	
PCB-1232	ND	7500	"	"	"	"	"	"	
PCB-1242	ND	7500	"	"	"	"	"	"	
PCB-1248	ND	7500	"	"	"	"	"	"	
PCB-1254	ND	7500	"	"	"	"	"	"	
PCB-1260	ND	7500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*90.7 %*		*10-173*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*25.7 %*		*10-192*	"	"	"	"	
W-109 Top Layer (B203082-11) Waste (L) Sampled: 03/05/02 16:10 Received: 03/06/02 10:00									
PCB-1016	ND	7080	ug/kg	1	2030146	03/11/02	03/19/02	EPA 8082	
PCB-1221	ND	7080	"	"	"	"	"	"	
PCB-1232	ND	7080	"	"	"	"	"	"	
PCB-1242	ND	7080	"	"	"	"	"	"	
PCB-1248	ND	7080	"	"	"	"	"	"	
PCB-1254	ND	7080	"	"	"	"	"	"	
B-1260	ND	7080	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*82.4 %*		*10-173*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*38.9 %*		*10-192*	"	"	"	"	
W-110 (B203082-12) Water Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									G12
PCB-1016	ND	4.17	ug/l	1	2030185	03/12/02	03/14/02	EPA 8082	
PCB-1221	ND	4.17	"	"	"	"	"	"	
PCB-1232	ND	4.17	"	"	"	"	"	"	
PCB-1242	ND	4.17	"	"	"	"	"	"	
PCB-1248	ND	4.17	"	"	"	"	"	"	
PCB-1254	ND	4.17	"	"	"	"	"	"	
PCB-1260	ND	4.17	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*83.4 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*73.6 %*		*10-114*	"	"	"	"	

Great Lakes Analytical

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Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-11 (B203080-14) Waste (L) Sampled: 03/05/02 11:50 Received: 03/06/02 10:00									QC
Acetone	ND UJ	1250	ug/kg	50	2030171	03/11/02	03/14/02	5030B/8260B	
Benzene	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
Bromoform	ND	250	"	"	"	"	"	"	
Bromomethane	ND UJ	250	"	"	"	"	"	"	
2-Butanone	**614** J	500	"	"	"	"	"	"	
Carbon disulfide	ND UJ	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Chlorodibromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
2-Dichloropropane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	500	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	ND UJ	250	"	"	"	"	"	"	
Toluene	**4300** J	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	**1010** J	250	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND UJ	250	"	"	"	"	"	"	
Trichloroethene	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND UJ	250	"	"	"	"	"	"	
Total Xylenes	**858** J	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*62.4 %*		*73.8-142*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*83.5 %*		*61.8-168*	"	"	"	"	
Surrogate: Toluene-d8		*95.3 %*		*70.1-131*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.9 %*		*66.3-119*	"	"	"	"	

HUE
26 Mar 02

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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Tetra Tech EMI - IL
0 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-12 (B203080-15) Water Sampled: 03/05/02 11:58 Received: 03/06/02 10:00									**O9,QC**
Acetone	ND	100000	ug/l	10000	2030172	03/12/02	03/14/02	5030B/8260B	
Benzene	ND	20000	"	"	"	"	"	"	
Bromodichloromethane	ND	20000	"	"	"	"	"	"	
Bromoform	ND	20000	"	"	"	"	"	"	
Bromomethane	ND	20000	"	"	"	"	"	"	
2-Butanone	ND	100000	"	"	"	"	"	"	
Carbon disulfide	ND	20000	"	"	"	"	"	"	
Carbon tetrachloride	ND	20000	"	"	"	"	"	"	
Chlorobenzene	ND	20000	"	"	"	"	"	"	
lorodibromomethane	ND	20000	"	"	"	"	"	"	
Chloroethane	ND	20000	"	"	"	"	"	"	
Chloroform	ND	20000	"	"	"	"	"	"	
Chloromethane	ND	20000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	20000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	20000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	20000	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	20000	"	"	"	"	"	"	
-Dichloropropane	ND	20000	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	20000	"	"	"	"	"	"	
Ethylbenzene	**30700**	20000	"	"	"	"	"	"	
2-Hexanone	ND	100000	"	"	"	"	"	"	
Methylene chloride	ND	20000	"	"	"	"	"	"	
4-Methyl-2-pentanone	**6040000**	500000	"	50000	"	"	03/14/02	"	
Styrene	ND	20000	"	10000	"	"	03/14/02	"	
1,1,2,2-Tetrachloroethane	ND	20000	"	"	"	"	"	"	
trachloroethene	ND	20000	"	"	"	"	"	"	
oluene	**109000**	20000	"	"	"	"	"	"	
1,1,1-Trichloroethane	**114000**	20000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20000	"	"	"	"	"	"	
Trichloroethene	ND	20000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20000	"	"	"	"	"	"	
Vinyl acetate	ND	20000	"	"	"	"	"	"	
Vinyl chloride	ND	20000	"	"	"	"	"	"	
Total Xylenes	**158000**	40000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94.2 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*91.8 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*		*82.2-110*	"	"	"	"	

Great Lakes Analytical

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Andy Johnson, Project Manager

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-16 (B203080-19) Waste (L) Sampled: 03/05/02 14:27 Received: 03/06/02 10:00									QC
Acetone	ND	1250	ug/kg	50	2030171	03/11/02	03/14/02	5030B/8260B	
Benzene	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
Bromoform	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
2-Butanone	ND	500	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Chlorodibromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
2-Dichloropropane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	500	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	ND	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	250	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
Trichloroethene	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
Total Xylenes	**684**	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.7 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*83.9 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*85.7 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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0 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-17B (B203080-20) Water Sampled: 03/05/02 14:04 Received: 03/06/02 10:00									QC,G23,O9
Acetone	**243000**	50000	ug/l	5000	2030172	03/12/02	03/15/02	5030B/8260B	A
Benzene	ND	10000	"	"	"	"	"	"	
Bromodichloromethane	ND	10000	"	"	"	"	"	"	
Bromoform	ND	10000	"	"	"	"	"	"	
Bromomethane	ND	10000	"	"	"	"	"	"	
2-Butanone	ND	50000	"	"	"	"	"	"	
Carbon disulfide	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	10000	"	"	"	"	"	"	
Chlorobenzene	ND	10000	"	"	"	"	"	"	
orodibromomethane	ND	10000	"	"	"	"	"	"	
Chloroethane	ND	10000	"	"	"	"	"	"	
Chloroform	ND	10000	"	"	"	"	"	"	
Chloromethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
s-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"	
-Dichloropropane	ND	10000	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	10000	"	"	"	"	"	"	
Ethylbenzene	ND	10000	"	"	"	"	"	"	
2-Hexanone	ND	50000	"	"	"	"	"	"	
Methylene chloride	ND	10000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50000	"	"	"	"	"	"	
Styrene	ND	10000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"	
trachloroethene	ND	10000	"	"	"	"	"	"	
luene	ND	10000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10000	"	"	"	"	"	"	
Trichloroethene	ND	10000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10000	"	"	"	"	"	"	
Vinyl acetate	ND	10000	"	"	"	"	"	"	
Vinyl chloride	ND	10000	"	"	"	"	"	"	
Total Xylenes	ND	20000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91.4 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*87.6 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*92.8 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*82.2-110*	"	"	"	"	

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30 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-18 (B203080-01) Soil Sampled: 03/05/02 09:30 Received: 03/06/02 10:00									QC
PCB-1016	ND	71400	ug/kg	200	2030122	03/08/02	03/14/02	EPA 8082	
PCB-1221	ND	71400	"	"	"	"	"	"	
PCB-1232	ND	71400	"	"	"	"	"	"	
PCB-1242	ND	71400	"	"	"	"	"	"	
PCB-1248	**85600**	71400	"	"	"	"	"	"	
PCB-1254	ND	71400	"	"	"	"	"	"	
PCB-1260	ND	71400	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*221 %*		*10-110*	"	"	*03/09/02*	"	*O5*
Surrogate: Decachlorobiphenyl		*26.6 %*		*10-110*	"	"	*03/09/02*	"	
W-19 (B203080-02) Waste (S) Sampled: 03/05/02 09:45 Received: 03/06/02 10:00									
PCB-1016	ND	7980	ug/kg	1	2030146	03/11/02	03/14/02	EPA 8082	
PCB-1221	ND	7980	"	"	"	"	"	"	
PCB-1232	ND	7980	"	"	"	"	"	"	
PCB-1242	ND	7980	"	"	"	"	"	"	
PCB-1248	ND	7980	"	"	"	"	"	"	
PCB-1254	ND	7980	"	"	"	"	"	"	
PCB-1260	ND	7980	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*110 %*		*10-173*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*23.8 %*		*10-192*	"	"	"	"	
W-20 (B203080-03) Waste (L) Sampled: 03/05/02 10:02 Received: 03/06/02 10:00									
PCB-1016	ND	7500	ug/kg	1	2030198	03/12/02	03/14/02	EPA 8082	
PCB-1221	ND	7500	"	"	"	"	"	"	
PCB-1232	ND	7500	"	"	"	"	"	"	
PCB-1242	ND	7500	"	"	"	"	"	"	
PCB-1248	ND	7500	"	"	"	"	"	"	
PCB-1254	ND	7500	"	"	"	"	"	"	
PCB-1260	ND	7500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*89.4 %*		*10-173*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*75.7 %*		*10-192*	"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/22/02 09:51

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-100 (B203080-04) Soil Sampled: 03/05/02 10:15 Received: 03/06/02 10:00									QC
PCB-1016	ND	178	ug/kg	1	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	178	"	"	"	"	"	"	
PCB-1232	ND	178	"	"	"	"	"	"	
PCB-1242	ND	178	"	"	"	"	"	"	
PCB-1248	**1110**	178	"	"	"	"	"	"	
PCB-1254	ND	178	"	"	"	"	"	"	
PCB-1260	ND	178	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%	*10-110*		"	"	"	"	*O4*
Surrogate: Decachlorobiphenyl		*57.7 %*	*10-110*		"	"	"	"	
W-101 (B203080-05) Soil Sampled: 03/05/02 10:30 Received: 03/06/02 10:00									QC
PCB-1016	ND	1250	ug/kg	50	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	1250	"	"	"	"	"	"	
PCB-1232	ND	1250	"	"	"	"	"	"	
PCB-1242	ND	1250	"	"	"	"	"	"	
PCB-1248	**3330**	1250	"	"	"	"	"	"	
PCB-1254	ND	1250	"	"	"	"	"	"	
PCB-1260	ND	1250	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*25.3 %*	*10-110*		"	"	*03/09/02*	"	
Surrogate: Decachlorobiphenyl		*12.6 %*	*10-110*		"	"	*03/09/02*	"	
W-102 (B203080-06) Soil Sampled: 03/05/02 10:40 Received: 03/06/02 10:00									QC
PCB-1016	ND	1250	ug/kg	50	2030122	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	1250	"	"	"	"	"	"	
PCB-1232	ND	1250	"	"	"	"	"	"	
PCB-1242	ND	1250	"	"	"	"	"	"	
PCB-1248	**2690**	1250	"	"	"	"	"	"	
PCB-1254	ND	1250	"	"	"	"	"	"	
PCB-1260	ND	1250	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*69.1 %*	*10-110*		"	"	*03/09/02*	"	
Surrogate: Decachlorobiphenyl		*23.8 %*	*10-110*		"	"	"	"	

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Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 16:56

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-31 (B203082-13) Wipe Sampled: 03/05/02 15:30 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/11/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**11.1**	5.00	"	10	"	"	"	"	
PCB-1254	ND	0.500	"	1	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*78.0 %*	*10-110*		"	"	*03/08/02*	"	
Surrogate: Decachlorobiphenyl		*47.1 %*	*11.8-117*		"	"	"	"	
Wipe-32 (B203082-14) Wipe Sampled: 03/05/02 15:35 Received: 03/06/02 10:00									
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**16.7**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*72.1 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*35.5 %*	*11.8-117*		"	"	"	"	
Wipe-33 (B203082-15) Wipe Sampled: 03/05/02 15:45 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**65.0**	25.0	"	50	"	"	"	"	
PCB-1254	ND	0.500	"	1	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*45.3 %*	*10-110*		"	"	*03/09/02*	"	
Surrogate: Decachlorobiphenyl		*12.0 %*	*11.8-117*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
.00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:56

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-34 (B203082-16) Wipe Sampled: 03/05/02 16:10 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**18.1**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*79.9 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*48.8 %*	*11.8-117*		"	"	"	"	
Wipe-35 (B203082-17) Wipe Sampled: 03/05/02 16:15 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**12.7**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*21.4 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*11.8-117*		"	"	"	"	*O4*
Wipe-36 (B203082-18) Wipe Sampled: 03/05/02 16:25 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**5.70**	2.50	"	5	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*22.1 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*11.8-117*		"	"	"	"	*O4*

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
.00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:56

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-37 (B203082-19) Wipe Sampled: 03/05/02 16:30 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**38.8**	25.0	"	50	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*107 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*11.8-117*		"	"	"	"	*O4*
Wipe-38 (B203082-20) Wipe Sampled: 03/05/02 16:40 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**19.2**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*48.1 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*11.8-117*		"	"	"	"	*O4*
Wipe-39 (B203082-21) Wipe Sampled: 03/05/02 16:50 Received: 03/06/02 10:00									QC
PCB-1016	ND	0.500	ug/Wipe	1	2030107	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**21.8**	10.0	"	20	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/09/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*63.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*19.2 %*	*11.8-117*		"	"	"	"	

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:56

Total Petroleum Hydrocarbons as Diesel by EPA 8015M

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-37B (B203082-04) Soil Sampled: 03/05/02 16:35 Received: 03/06/02 10:00									T11,QC
Diesel	**5720**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-38 (B203082-05) Waste (S) Sampled: 03/05/02 16:40 Received: 03/06/02 10:00									T2,QC
Diesel	**2780**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-39 (B203082-06) Waste (S) Sampled: 03/05/02 16:50 Received: 03/06/02 10:00									T11,QC
Diesel	**4570**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-40 (B203082-07) Soil Sampled: 03/05/02 16:55 Received: 03/06/02 10:00									T11,QC
iesel	**1280**	505	mg/kg	101	2030032	03/12/02	03/13/02	EPA 8015M	
W-51 (B203082-08) Waste (L) Sampled: 03/05/02 16:20 Received: 03/06/02 10:00									T13,T2,QC
Diesel	**19400**	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	
W-45 (B203082-09) Soil Sampled: 03/05/02 16:05 Received: 03/06/02 10:00									T11,QC
Diesel	**6780**	505	mg/kg	101	2030032	03/12/02	03/14/02	EPA 8015M	
W-108 (B203082-10) Waste (L) Sampled: 03/05/02 15:55 Received: 03/06/02 10:00									T13,T2,QC
iesel	**17400**	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	**Reported:**
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 16:56

Notes and Definitions

>220	>220 °F
G12	The reporting limits have been elevated due to low sample volume.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
T11	Motor Oil Range
T13	Several Large Peaks
T2	Late Peaks
T4	Gas Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Tetra Tech EMI - IL	Project: G9009.E0202004	
200 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/19/02 07:46

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-01 (B203085-01) Soil Sampled: 03/06/02 09:25 Received: 03/06/02 11:03									
Mercury	ND R	0.0400	mg/kg wet	1	2030186	03/13/02	03/13/02	EPA 7471A	
Arsenic	ND	2.50	"	"	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	ND	25.0	"	"	"	"	"	"	QC
Cadmium	**1.88**	0.500	"	"	"	"	"	"	
Chromium	**697**	3.00	"	6	"	"	"	"	
Lead	**40.3**	1.00	"	1	"	"	"	"	
Selenium	ND	2.50	"	"	"	"	"	"	QC
Silver	ND R	2.50	"	"	"	"	"	"	

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Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	**Reported:** 03/19/02 07:46

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-01 (B203085-01) Soil Sampled: 03/06/02 09:25 Received: 03/06/02 11:03									QC
Acetone	ND	25.0	ug/kg wet	1	2030162	03/11/02	03/14/02	5030A/8260B	
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
Tetrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.4 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*92.6 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.6 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/19/02 07:46

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-02 (B203085-02) Soil Sampled: 03/06/02 09:55 Received: 03/06/02 11:03									QC
Acetone	ND	25.0	ug/kg wet	1	2030162	03/11/02	03/12/02	5030A/8260B	
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
hlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
etrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.3 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
200 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/19/02 07:46

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-02 D (B203085-03) Soil Sampled: 03/06/02 09:55 Received: 03/06/02 11:03									QC
Acetone	ND	25.0	ug/kg wet	1	2030162	03/11/02	03/12/02	5030A/8260B	
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
Tetrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.3 %*	*66.3-119*		"	"	"	"	

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/19/02 07:46

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SD-01 (B203085-04) Soil Sampled: 03/06/02 11:00 Received: 03/06/02 11:03									QC
Acetone	ND	25.0	ug/kg wet	1	2030162	03/11/02	03/12/02	5030A/8260B	
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
hlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**42.3**	5.00	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
etrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.1 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

GREAT LAKES ANALYTICAL

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Tetra Tech EMI - IL	Project: G9009.E0202004	
30 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/19/02 07:46

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SD-02 (B203085-05) Soil Sampled: 03/06/02 11:15 Received: 03/06/02 11:03									QC
Acetone	ND	25.0	ug/kg wet	1	2030162	03/11/02	03/12/02	5030A/8260B	
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	**11.5**	10.0	"	"	"	"	"	"	A
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
Tetrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*119 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

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Tetra Tech EMI - IL	Project: G9009.E0202004	
200 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/19/02 07:46

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SD-03 (B203085-06) Soil Sampled: 03/06/02 11:30 Received: 03/06/02 11:03									QC
Acetone	**43.6**	25.0	ug/kg wet	1	2030162	03/11/02	03/12/02	5030A/8260B	A
Benzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	**11.8**	10.0	"	"	"	"	"	"	A
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
Tetrachloroethene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	5.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	10.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.1 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/19/02 07:46

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-01 (B203085-01) Soil Sampled: 03/06/02 09:25 Received: 03/06/02 11:03									
PCB-1016	ND	25.0	ug/kg wet	1	2030153	03/11/02	03/13/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	**18400**	5000	"	200	"	"	03/14/02	"	
PCB-1254	ND	25.0	"	1	"	"	03/13/02	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*40.7 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*31.3 %*	*10-110*		"	"	"	"	
SS-02 (B203085-02) Soil Sampled: 03/06/02 09:55 Received: 03/06/02 11:03									
PCB-1016	ND	25.0	ug/kg wet	1	2030153	03/11/02	03/13/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	**2990**	1250	"	50	"	"	03/14/02	"	
PCB-1254	ND	25.0	"	1	"	"	03/13/02	"	
B-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*39.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*38.6 %*	*10-110*		"	"	"	"	
SS-02 D (B203085-03) Soil Sampled: 03/06/02 09:55 Received: 03/06/02 11:03									
PCB-1016	ND	25.0	ug/kg wet	1	2030153	03/11/02	03/13/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	**26600**	5000	"	200	"	"	03/14/02	"	
PCB-1254	ND	25.0	"	1	"	"	03/13/02	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*52.6 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*55.3 %*	*10-110*		"	"	"	"	

Great Lakes Analytical

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Andy Johnson, Project Manager

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Tetra Tech EMI - IL	Project: G9009.E0202004	
200 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/19/02 07:46

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SD-01 (B203085-04) Soil Sampled: 03/06/02 11:00 Received: 03/06/02 11:03									
PCB-1016	ND	25.0	ug/kg wet	1	2030153	03/11/02	03/13/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	**1890**	1250	"	50	"	"	03/14/02	"	
PCB-1248	ND	25.0	"	1	"	"	03/13/02	"	
PCB-1254	ND	25.0	"	"	"	"	"	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*27.4 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*78.0 %*		*10-110*	"	"	"	"	
SD-02 (B203085-05) Soil Sampled: 03/06/02 11:15 Received: 03/06/02 11:03									
PCB-1016	ND	216	ug/kg wet	1	2030153	03/11/02	03/13/02	EPA 8082	
PCB-1221	ND	216	"	"	"	"	"	"	
PCB-1232	ND	216	"	"	"	"	"	"	
PCB-1242	ND	216	"	"	"	"	"	"	
PCB-1248	**8530**	4310	"	20	"	"	03/15/02	"	
PCB-1254	ND	216	"	1	"	"	03/13/02	"	
PCB-1260	ND	216	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*1210 %*		*10-110*	"	"	"	"	*O5*
Surrogate: Decachlorobiphenyl		*%*		*10-110*	"	"	"	"	*O4*
SD-03 (B203085-06) Soil Sampled: 03/06/02 11:30 Received: 03/06/02 11:03									
PCB-1016	ND	25.0	ug/kg wet	1	2030153	03/11/02	03/13/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	**1360**	1250	"	50	"	"	03/18/02	"	
PCB-1248	ND	25.0	"	1	"	"	03/13/02	"	
PCB-1254	ND	25.0	"	"	"	"	"	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*36.7 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*50.1 %*		*10-110*	"	"	"	"	

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

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Tetra Tech EMI - IL :00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	**Reported:** 03/21/02 17:04

General Chemistry
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-30 (B203086-04) Soil Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-32 (B203086-05) Soil Sampled: 03/06/02 10:00 Received: 03/06/02 11:28									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-34 (B203086-06) Soil Sampled: 03/06/02 10:10 Received: 03/06/02 11:28									
Flashpoint	>220 °F		°F	1	2030137	03/09/02	03/11/02	ASTM D92-85	
W-41 (B203086-07) Waste (L) Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									
Flashpoint	**141**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-42 (B203086-08) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									
Flashpoint	**116**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-42D (B203086-09) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									
Flashpoint	**131**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-43 (B203086-10) Waste (L) Sampled: 03/06/02 10:45 Received: 03/06/02 11:28									
Flashpoint	**131**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	
W-44 (B203086-11) Waste (L) Sampled: 03/06/02 10:50 Received: 03/06/02 11:28									
Flashpoint	**126**		°F	1	2030188	03/13/02	03/13/02	ASTM D93-85	

Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/21/02 17:04

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-30 (B203086-04) Soil Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									
Mercury	**0.0817** J	0.0400	mg/kg wet	1	2030186	03/13/02	03/13/02	EPA 7471A	
Arsenic	ND	2.50	"	"	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	**52.6**	25.0	"	"	"	"	"	"	QC
Cadmium	**8.72**	0.500	"	"	"	"	"	"	
Chromium	**143**	0.500	"	"	"	"	"	"	
Lead	**23.2**	1.00	"	"	"	"	"	"	
Selenium	ND	2.50	"	"	"	"	"	"	QC
Silver	**4.41** J	2.50	"	"	"	"	"	"	
W-32 (B203086-05) Soil Sampled: 03/06/02 10:00 Received: 03/06/02 11:28									
Mercury	ND R	0.0400	mg/kg wet	1	2030186	03/13/02	03/13/02	EPA 7471A	
Arsenic	**83.6**	2.50	"	"	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	ND	25.0	"	"	"	"	"	"	QC
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	**11.4**	0.500	"	"	"	"	"	"	
Lead	**25.0**	1.00	"	"	"	"	"	"	
Selenium	ND	2.50	"	"	"	"	"	"	QC
Silver	ND R	2.50	"	"	"	"	"	"	
W-34 (B203086-06) Soil Sampled: 03/06/02 10:10 Received: 03/06/02 11:28									
Mercury	**0.0438** J	0.0400	mg/kg wet	1	2030120	03/08/02	03/08/02	EPA 7471A	QC
Arsenic	**20.9**	2.50	"	"	2030192	03/13/02	03/13/02	EPA 6010B	
Barium	ND	25.0	"	"	"	"	"	"	QC
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	**5.19**	0.500	"	"	"	"	"	"	
Lead	**9.99**	1.00	"	"	"	"	"	"	
Selenium	ND	2.50	"	"	"	"	"	"	QC
Silver	ND R	2.50	"	"	"	"	"	"	

HUG
27 Mar 02

Great Lakes Analytical

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Andy Johnson

Andy Johnson, Project Manager

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Tetra Tech EMI - IL
200 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 17:04

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-41 (B203086-07) Waste (L) Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									
Mercury	**0.00152**	0.000684	mg/kg	1	2030166	03/12/02	03/12/02	EPA 7470A	
Arsenic	ND	0.0481	"	"	2030193	03/13/02	03/13/02	EPA 6010B	
Barium	**3.43**	0.481	"	"	"	"	"	"	
Cadmium	**0.0363**	0.00962	"	"	"	"	"	"	
Chromium	**0.0562**	0.00962	"	"	"	"	"	"	
Lead	**0.0987**	0.0192	"	"	"	"	"	"	
Selenium	ND UJ	0.0481	"	"	"	"	"	"	
Silver	ND	0.0481	"	"	"	"	"	"	QC
W-42 (B203086-08) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									
Mercury	**0.00179**	0.00125	mg/kg	1	2030166	03/12/02	03/12/02	EPA 7470A	
Arsenic	ND	0.0468	"	"	2030193	03/13/02	03/13/02	EPA 6010B	
Barium	**8.65**	0.468	"	"	"	"	"	"	
Cadmium	ND	0.00936	"	"	"	"	"	"	
Chromium	ND	0.00936	"	"	"	"	"	"	
Lead	ND	0.0187	"	"	"	"	"	"	
Selenium	ND UJ	0.0468	"	"	"	"	"	"	
Silver	ND	0.0468	"	"	"	"	"	"	QC
W-42D (B203086-09) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									
Mercury	**0.00475**	0.000745	mg/kg	1	2030166	03/12/02	03/12/02	EPA 7470A	
Arsenic	ND	0.0460	"	"	2030193	03/13/02	03/13/02	EPA 6010B	
Barium	**8.13**	0.460	"	"	"	"	"	"	
Cadmium	**0.0561**	0.00921	"	"	"	"	"	"	
Chromium	ND	0.00921	"	"	"	"	"	"	
Lead	**0.135**	0.0184	"	"	"	"	"	"	
Selenium	ND UJ	0.0460	"	"	"	"	"	"	
Silver	ND	0.0460	"	"	"	"	"	"	

HUG
27 Mar 02

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 17:04

Total Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-43 (B203086-10) Waste (L) Sampled: 03/06/02 10:45 Received: 03/06/02 11:28									
Mercury	ND	0.000894	mg/kg	1	2030166	03/12/02	03/12/02	EPA 7470A	
Arsenic	ND	0.0477	"	"	2030193	03/13/02	03/13/02	EPA 6010B	
Barium	**8.03**	0.477	"	"	"	"	"	"	
Cadmium	**0.0238**	0.00953	"	"	"	"	"	"	
Chromium	**0.0871**	0.00953	"	"	"	"	"	"	
Lead	**0.103**	0.0191	"	"	"	"	"	"	
Selenium	ND UJ	0.0477	"	"	"	"	"	"	
Silver	ND	0.0477	"	"	"	"	"	"	QC
W-44 (B203086-11) Waste (L) Sampled: 03/06/02 10:50 Received: 03/06/02 11:28									
Mercury	ND	0.000962	mg/kg	1	2030166	03/12/02	03/12/02	EPA 7470A	
Arsenic	ND	0.0587	"	"	2030193	03/13/02	03/13/02	EPA 6010B	
Barium	**10.4**	0.587	"	"	"	"	"	"	
Cadmium	**0.161**	0.0117	"	"	"	"	"	"	
Chromium	**0.156**	0.0117	"	"	"	"	"	"	
Lead	**0.169**	0.0235	"	"	"	"	"	"	
Selenium	ND UJ	0.0587	"	"	"	"	"	"	
Silver	ND	0.0587	"	"	"	"	"	"	QC

HVC
27 Mar 02

Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	Reported: 03/21/02 17:04

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-30 (B203086-04) Soil Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									T4
Gasoline	**37.0**	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	T13
W-32 (B203086-05) Soil Sampled: 03/06/02 10:00 Received: 03/06/02 11:28									T4
Gasoline	**35.5**	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	T13
W-34 (B203086-06) Soil Sampled: 03/06/02 10:10 Received: 03/06/02 11:28									
Gasoline	ND	5.00	mg/kg wet	50	2030132	03/08/02	03/11/02	EPA 8015M-VOA	
W-41 (B203086-07) Waste (L) Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									
Gasoline	ND	5000	ug/kg	50	2030175	03/12/02	03/13/02	EPA 8015M-VOA	
W-42 (B203086-08) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									
Gasoline	ND	5000	ug/kg	50	2030175	03/12/02	03/14/02	EPA 8015M-VOA	
-42D (B203086-09) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									
Gasoline	ND	5000	ug/kg	50	2030175	03/12/02	03/14/02	EPA 8015M-VOA	
W-43 (B203086-10) Waste (L) Sampled: 03/06/02 10:45 Received: 03/06/02 11:28									
Gasoline	ND	5000	ug/kg	50	2030175	03/12/02	03/14/02	EPA 8015M-VOA	
W-44 (B203086-11) Waste (L) Sampled: 03/06/02 10:50 Received: 03/06/02 11:28									
Gasoline	ND	5000	ug/kg	50	2030175	03/12/02	03/14/02	EPA 8015M-VOA	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 17:04

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-111A (B203086-01) Water Sampled: 03/06/02 09:05 Received: 03/06/02 11:28									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5.74**	2.00	"	"	"	"	"	"	
ns-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	ND	2.00	"	"	"	"	"	"	
Total Xylenes	ND	4.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94.8 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*		*82.2-110*	"	"	"	"	

Great Lakes Analytical

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Andy Johnson

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 17:04

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-111B (B203086-02) Waste (L) Sampled: 03/06/02 09:10 Received: 03/06/02 11:28									QC
Acetone	ND	1250	ug/kg	50	2030171	03/11/02	03/13/02	5030B/8260B	
Benzene	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
Bromoform	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
2-Butanone	**1100**	500	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Chlorodibromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
ıns-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
2-Dichloropropane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	500	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	ND	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	250	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
Trichloroethene	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
Total Xylenes	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*83.5 %*	*73.8-142*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*79.9 %*	*61.8-168*		"	"	"	"	
Surrogate: Toluene-d8		*81.7 %*	*70.1-131*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*66.3-119*		"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 17:04

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-31 (B203086-03) Water Sampled: 03/06/02 09:30 Received: 03/06/02 11:28									QC
Acetone	**1320**	100	ug/l	10	2030172	03/12/02	03/13/02	5030B/8260B	
Benzene	ND	20.0	"	"	"	"	"	"	
Bromodichloromethane	ND	20.0	"	"	"	"	"	"	
Bromoform	ND	20.0	"	"	"	"	"	"	
Bromomethane	ND	20.0	"	"	"	"	"	"	
2-Butanone	**154**	100	"	"	"	"	"	"	
Carbon disulfide	ND	20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20.0	"	"	"	"	"	"	
Chlorobenzene	ND	20.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	20.0	"	"	"	"	"	"	
Chloroethane	ND	20.0	"	"	"	"	"	"	
Chloroform	ND	20.0	"	"	"	"	"	"	
Chloromethane	**77.8**	20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	20.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	20.0	"	"	"	"	"	"	
ıns-1,2-Dichloroethene	ND	20.0	"	"	"	"	"	"	
,2-Dichloropropane	ND	20.0	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	ND	20.0	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
Methylene chloride	ND	20.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Styrene	ND	20.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	20.0	"	"	"	"	"	"	
Tetrachloroethene	ND	20.0	"	"	"	"	"	"	
Toluene	ND	20.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	20.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20.0	"	"	"	"	"	"	
Trichloroethene	ND	20.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20.0	"	"	"	"	"	"	
Vinyl acetate	ND	20.0	"	"	"	"	"	"	
Vinyl chloride	ND	20.0	"	"	"	"	"	"	
Total Xylenes	ND	40.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.4 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*82.2-110*	"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL 00 E. Randolph Suite 4700 Chicago IL, 60601	Project: G9009.E0202004 Project Number: N/A Project Manager: Lisa Graczyk	**Reported:** 03/21/02 17:04

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-111A (B203086-01) Water Sampled: 03/06/02 09:05 Received: 03/06/02 11:28									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**163**	50.0	"	100	"	"	03/19/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/11/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*59.9 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*11.1 %*		*10-114*	"	"	"	"	
W-111B (B203086-02) Waste (L) Sampled: 03/06/02 09:10 Received: 03/06/02 11:28									
PCB-1016	ND	6820	ug/kg	1	2030146	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	6820	"	"	"	"	"	"	
PCB-1232	ND	6820	"	"	"	"	"	"	
PCB-1242	ND	6820	"	"	"	"	"	"	
PCB-1248	**112000**	34100	"	5	"	"	03/15/02	"	
PCB-1254	ND	6820	"	1	"	"	03/12/02	"	
PCB-1260	ND	6820	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*111 %*		*10-173*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*		*10-192*	"	"	"	"	*O4*
W-31 (B203086-03) Water Sampled: 03/06/02 09:30 Received: 03/06/02 11:28									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/14/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**2.08**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*28.2 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*		*10-114*	"	"	"	"	*O4*

Great Lakes Analytical

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Tetra Tech EMI - IL
00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/21/02 17:04

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-30 (B203086-04) Soil Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									QC
PCB-1016	ND	25.0	ug/kg wet	1	2030122	03/08/02	03/15/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	ND	25.0	"	"	"	"	"	"	
PCB-1254	ND	25.0	"	"	"	"	"	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*22.3 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*10-110*		"	"	"	"	*O4*
W-32 (B203086-05) Soil Sampled: 03/06/02 10:00 Received: 03/06/02 11:28									QC
PCB-1016	ND	25.0	ug/kg wet	1	2030122	03/08/02	03/13/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	**1020**	250	"	10	"	"	03/15/02	"	
PCB-1254	ND	25.0	"	1	"	"	03/13/02	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*32.4 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*10-110*		"	"	"	"	*O4*
W-34 (B203086-06) Soil Sampled: 03/06/02 10:10 Received: 03/06/02 11:28									QC
PCB-1016	ND	25.0	ug/kg wet	1	2030122	03/08/02	03/15/02	EPA 8082	
PCB-1221	ND	25.0	"	"	"	"	"	"	
PCB-1232	ND	25.0	"	"	"	"	"	"	
PCB-1242	ND	25.0	"	"	"	"	"	"	
PCB-1248	ND	25.0	"	"	"	"	"	"	
PCB-1254	ND	25.0	"	"	"	"	"	"	
PCB-1260	ND	25.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*10.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*10-110*		"	"	"	"	*O4*

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 17:04

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-41 (B203086-07) Waste (L) Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									
PCB-1016	ND	7280	ug/kg	1	2030146	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	7280	"	"	"	"	"	"	
PCB-1232	ND	7280	"	"	"	"	"	"	
PCB-1242	ND	7280	"	"	"	"	"	"	
PCB-1248	ND	7280	"	"	"	"	"	"	
PCB-1254	ND	7280	"	"	"	"	"	"	
PCB-1260	ND	7280	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*75.7 %*		*10-173*		"	"	"	
Surrogate: Decachlorobiphenyl		*22.2 %*		*10-192*		"	"	"	
W-42 (B203086-08) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									
PCB-1016	ND	7580	ug/kg	1	2030146	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	7580	"	"	"	"	"	"	
PCB-1232	ND	7580	"	"	"	"	"	"	
PCB-1242	ND	7580	"	"	"	"	"	"	
PCB-1248	**41900**	7580	"	"	"	"	"	"	
PCB-1254	ND	7580	"	"	"	"	"	"	
PCB-1260	ND	7580	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*72.1 %*		*10-173*		"	"	"	
Surrogate: Decachlorobiphenyl		*70.2 %*		*10-192*		"	"	"	
W-42D (B203086-09) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									
PCB-1016	ND	7500	ug/kg	1	2030146	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	7500	"	"	"	"	"	"	
PCB-1232	ND	7500	"	"	"	"	"	"	
PCB-1242	ND	7500	"	"	"	"	"	"	
PCB-1248	**45600**	7500	"	"	"	"	"	"	
PCB-1254	ND	7500	"	"	"	"	"	"	
PCB-1260	ND	7500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*77.3 %*		*10-173*		"	"	"	
Surrogate: Decachlorobiphenyl		*98.2 %*		*10-192*		"	"	"	

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30 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 17:04

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-43 (B203086-10) Waste (L) Sampled: 03/06/02 10:45 Received: 03/06/02 11:28									
PCB-1016	ND	7650	ug/kg	1	2030146	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	7650	"	"	"	"	"	"	
PCB-1232	ND	7650	"	"	"	"	"	"	
PCB-1242	ND	7650	"	"	"	"	"	"	
PCB-1248	**17600**	7650	"	"	"	"	"	"	
PCB-1254	ND	7650	"	"	"	"	"	"	
PCB-1260	ND	7650	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*77.6 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*64.2 %*	*10-192*		"	"	"	"	
W-44 (B203086-11) Waste (L) Sampled: 03/06/02 10:50 Received: 03/06/02 11:28									
PCB-1016	ND	7210	ug/kg	1	2030146	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	7210	"	"	"	"	"	"	
PCB-1232	ND	7210	"	"	"	"	"	"	
PCB-1242	ND	7210	"	"	"	"	"	"	
PCB-1248	**9270**	7210	"	"	"	"	"	"	
PCB-1254	ND	7210	"	"	"	"	"	"	
B-1260	ND	7210	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*75.8 %*	*10-173*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*27.4 %*	*10-192*		"	"	"	"	

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100 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 17:04

Total Petroleum Hydrocarbons as Diesel by EPA 8015M

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-30 (B203086-04) Soil Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									**T11,QC**
Diesel	**7840**	505	mg/kg	101	2030032	03/12/02	03/14/02	EPA 8015M	
W-32 (B203086-05) Soil Sampled: 03/06/02 10:00 Received: 03/06/02 11:28									**T11,QC**
Diesel	**8620**	505	mg/kg	101	2030032	03/12/02	03/14/02	EPA 8015M	
W-34 (B203086-06) Soil Sampled: 03/06/02 10:10 Received: 03/06/02 11:28									**T11,QC**
Diesel	**10600**	505	mg/kg	101	2030032	03/12/02	03/14/02	EPA 8015M	
W-41 (B203086-07) Waste (L) Sampled: 03/06/02 09:20 Received: 03/06/02 11:28									**T2,T13,QC**
Diesel	**15400**	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	
W-42 (B203086-08) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									**T2,T13,QC**
Diesel	**20900**	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	
W-42D (B203086-09) Waste (L) Sampled: 03/06/02 10:30 Received: 03/06/02 11:28									**T2,T13,QC**
Diesel	**21700**	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	
W-43 (B203086-10) Waste (L) Sampled: 03/06/02 10:45 Received: 03/06/02 11:28									**T2,T13,QC**
Diesel	**20100**	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	
W-44 (B203086-11) Waste (L) Sampled: 03/06/02 10:50 Received: 03/06/02 11:28									**T15,T11,QC**
Diesel	**20000**	10100	mg/l	101	2030029	03/11/02	03/12/02	EPA 8015M	

Great Lakes Analytical

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200 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/21/02 17:04

Notes and Definitions

>220	>220 °F
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
T11	Motor Oil Range
T13	Several Large Peaks
T15	Late Elevated Baseline
T2	Late Peaks
T4	Gas Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
'PD	Relative Percent Difference

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (B203087-01) Water Sampled: 03/06/02 11:45 Received: 03/06/02 12:19									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	**4.62**	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**47.6**	2.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	**90.3**	2.00	"	"	"	"	"	"	
Total Xylenes	ND	4.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.2 %*	*87.3-118*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*85.2-121*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*92.3-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*82.2-110*		"	"	"	"	

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·tra Tech EMI - IL	Project: G9009.E0202004	
)0 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-09 (B203087-33) Water Sampled: 03/06/02 13:15 Received: 03/06/02 12:19									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	03/12/02	"	
Carbon disulfide	ND	2.00	"	"	"	"	03/11/02	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	**18.6**	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	**18.0**	2.00	"	"	"	"	"	"	
'-1,2-Dichloroethene	**2080**	200	"	100	"	"	03/12/02	"	
as-1,2-Dichloroethene	**12.4**	2.00	"	1	"	"	03/11/02	"	
..,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	03/12/02	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	03/11/02	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	03/12/02	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	03/11/02	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	**383**	200	"	100	"	"	03/12/02	"	
Total Xylenes	ND	4.00	"	1	"	"	03/11/02	"	
Surrogate: Dibromofluoromethane		*104 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.6 %*		*82.2-110*	"	"	"	"	

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Tetra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	**Reported:**
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-06 (B203087-34) Water Sampled: 03/06/02 13:30 Received: 03/06/02 12:19									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	03/12/02	"	
Carbon disulfide	ND	2.00	"	"	"	"	03/11/02	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	03/12/02	"	
1,1-Dichloroethane	**196**	55.0	"	100	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	1	"	"	03/11/02	"	
1,1-Dichloroethene	**12.3**	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**6930**	200	"	100	"	"	03/12/02	"	
trans-1,2-Dichloroethene	**57.5**	2.00	"	1	"	"	03/11/02	"	
1,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	03/12/02	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	03/11/02	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	**146**	2.00	"	"	"	"	"	"	
Total Xylenes	ND	4.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.2 %*		*82.2-110*	"	"	"	"	

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
300 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Volatile Organic Compounds by EPA Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (B203087-35) Water Sampled: 03/06/02 13:46 Received: 03/06/02 12:19									QC
Acetone	ND	10.0	ug/l	1	2030134	03/08/02	03/11/02	5030B/8260B	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropene (cis + trans)	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Vinyl chloride	ND	2.00	"	"	"	"	"	"	
Total Xylenes	ND	4.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.2 %*		*87.3-118*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*85.2-121*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*92.3-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.8 %*		*82.2-110*	"	"	"	"	

Great Lakes Analytical

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00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (B203087-01) Water Sampled: 03/06/02 11:45 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*87.7 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*39.8 %*		*10-114*	"	"	"	"	
Wipe-40 (B203087-02) Wipe Sampled: 03/06/02 08:55 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**10.3**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*46.0 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*17.4 %*		*11.8-117*	"	"	"	"	
Wipe-41 (B203087-03) Wipe Sampled: 03/06/02 09:00 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**17.8**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*41.5 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*12.8 %*		*11.8-117*	"	"	"	"	

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0 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-42 (B203087-04) Wipe Sampled: 03/06/02 09:05 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**16.2**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*47.4 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*18.9 %*	*11.8-117*		"	"	"	"	
Wipe-43 (B203087-05) Wipe Sampled: 03/06/02 09:10 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**9.43**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*22.7 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*4.58 %*	*11.8-117*		"	"	"	"	O4
Wipe-44 (B203087-06) Wipe Sampled: 03/06/02 09:20 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**23.1**	10.0	"	20	"	"	03/20/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/09/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*42.2 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*32.0 %*	*11.8-117*		"	"	"	"	

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Project: G9009 E0202004
Project Number: N A
Project Manager: Lisa Graczyk

Reported:
03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-45 (B203087-07) Wipe Sampled: 03/06/02 09:25 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/09/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**36.9**	10.0	"	20	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/09/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*91.8 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*23.5 %*	*11.8-117*		"	"	"	"	
Wipe-46 (B203087-08) Wipe Sampled: 03/06/02 09:30 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**29.0**	10.0	"	20	"	"	03/19/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*63.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*30.7 %*	*11.8-117*		"	"	"	"	
Wipe-47 (B203087-09) Wipe Sampled: 03/06/02 09:55 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**25.3**	10.0	"	20	"	"	03/19/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*42.6 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*11.8-117*		"	"	"	"	*O4*

Great Lakes Analytical

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Tetra Tech EMI - IL	Project: G9009.E0202004	
30 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-48 (B203087-10) Wipe Sampled: 03/06/02 09:57 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**16.5**	5.00	"	10	"	"	03/19/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*55.1 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*22.2 %*	*11.8-117*		"	"	"	"	
Wipe-49 (B203087-11) Wipe Sampled: 03/06/02 10:00 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**11.3**	5.00	"	10	"	"	03/19/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*45.2 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*24.2 %*	*11.8-117*		"	"	"	"	
Wipe-50 (B203087-12) Wipe Sampled: 03/06/02 10:05 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**18.1**	5.00	"	10	"	"	03/19/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*42.2 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*%*	*11.8-117*		"	"	"	"	*O4*

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...0 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-51 (B203087-13) Wipe Sampled: 03/06/02 10:15 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/20/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**0.753**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*21.7 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*21.2 %*	*11.8-117*		"	"	"	"	
Wipe-52 (B203087-14) Wipe Sampled: 03/06/02 10:30 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/20/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**3.99**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*80.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*87.0 %*	*11.8-117*		"	"	"	"	
Wipe-53 (B203087-15) Wipe Sampled: 03/06/02 10:35 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**7.84**	1.00	"	2	"	"	03/20/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/10/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*41.0 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*9.78 %*	*11.8-117*		"	"	"	"	*O4*

Great Lakes Analytical

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Andy Johnson

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Tetra Tech EMI - IL	Project: G9009.E0202004	
30 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-54 (B203087-16) Wipe Sampled: 03/06/02 10:40 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**1.57**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*38.7 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*47.0 %*	*11.8-117*		"	"	"	"	
Wipe-55 (B203087-17) Wipe Sampled: 03/06/02 10:45 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*39.6 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*24.6 %*	*11.8-117*		"	"	"	"	
Wipe-56 (B203087-18) Wipe Sampled: 03/06/02 10:55 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**2.81**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*44.2 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*8.11 %*	*11.8-117*		"	"	"	"	*O4*

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00 E. Randolph Suite 4700
Chicago IL, 60601

Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-57 (B203087-19) Wipe Sampled: 03/06/02 11:00 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**1.96**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*45.3 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*31.4 %*	*11.8-117*		"	"	"	"	
Wipe-58 (B203087-20) Wipe Sampled: 03/06/02 11:05 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**1.83**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*45.3 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*24.0 %*	*11.8-117*		"	"	"	"	
Wipe-59 (B203087-21) Wipe Sampled: 03/06/02 11:10 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030119	03/07/02	03/10/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**2.57**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*44.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*20.3 %*	*11.8-117*		"	"	"	"	

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Project: G9009.E0202004
Project Number: N/A
Project Manager: Lisa Graczyk

Reported:
03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-60 (B203087-22) Wipe Sampled: 03/06/02 11:20 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**4.52**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*37.4 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*15.3 %*	*11.8-117*		"	"	"	"	
Wipe-61 (B203087-23) Wipe Sampled: 03/06/02 11:25 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**6.27**	1.00	"	2	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*35.2 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*19.5 %*	*11.8-117*		"	"	"	"	
Wipe-62 (B203087-24) Wipe Sampled: 03/06/02 11:30 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*38.0 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*27.4 %*	*11.8-117*		"	"	"	"	

Great Lakes Analytical

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·tra Tech EMI - IL	Project: G9009.E0202004	
00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-63 (B203087-25) Wipe Sampled: 03/06/02 11:35 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**9.60**	5.00	"	10	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*29.6 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*16.5 %*	*11.8-117*		"	"	"	"	
Wipe-64 (B203087-26) Wipe Sampled: 03/06/02 11:45 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
˜B-1254	ND	0.500	"	"	"	"	"	"	
B-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*40.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*32.7 %*	*11.8-117*		"	"	"	"	
Wipe-65 (B203087-27) Wipe Sampled: 03/06/02 11:50 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**1.89**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*28.3 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*13.8 %*	*11.8-117*		"	"	"	"	

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-66 (B203087-28) Wipe Sampled: 03/06/02 13:00 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**2.38**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*36.6 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*16.4 %*	*11.8-117*		"	"	"	"	
Wipe-67 (B203087-29) Wipe Sampled: 03/06/02 13:15 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**7.54**	1.00	"	2	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*31.0 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*13.2 %*	*11.8-117*		"	"	"	"	
Wipe-68 (B203087-30) Wipe Sampled: 03/06/02 13:20 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**4.13**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*22.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*12.8 %*	*11.8-117*		"	"	"	"	

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30 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wipe-69 (B203087-31) Wipe Sampled: 03/06/02 13:25 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**3.04**	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*26.5 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*10.3 %*	*11.8-117*		"	"	"	"	
Wipe-70 (B203087-32) Wipe Sampled: 03/06/02 13:30 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/Wipe	1	2030147	03/11/02	03/12/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	**10.6**	2.50	"	5	"	"	03/15/02	"	
PCB-1254	ND	0.500	"	1	"	"	03/12/02	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*27.9 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*10.9 %*	*11.8-117*		"	"	"	"	*O4*
MW-09 (B203087-33) Water Sampled: 03/06/02 13:15 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*59.8 %*	*10-110*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*38.5 %*	*10-114*		"	"	"	"	

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00 E. Randolph Suite 4700	Project Number: N/A	Reported:
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Polychlorinated Biphenyls by EPA Method 8082

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-06 (B203087-34) Water Sampled: 03/06/02 13:30 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*73.6 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*52.6 %*		*10-114*	"	"	"	"	
MW-11 (B203087-35) Water Sampled: 03/06/02 13:46 Received: 03/06/02 12:19									
PCB-1016	ND	0.500	ug/l	1	2030112	03/08/02	03/11/02	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
'CB-1254	ND	0.500	"	"	"	"	"	"	
.B-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*61.1 %*		*10-110*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*64.9 %*		*10-114*	"	"	"	"	

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'etra Tech EMI - IL	Project: G9009.E0202004	
200 E. Randolph Suite 4700	Project Number: N/A	**Reported:**
Chicago IL, 60601	Project Manager: Lisa Graczyk	03/20/02 17:45

Notes and Definitions

O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

etra Tech EM Inc.
200 E. Randolph Drive, Suite 4700 ◆ Chicago, IL 60601 ◆ (312) 856-8700 ◆ FAX (312) 938-0118

MEMORANDUM

Date: 15 Apr 02

To: Lisa Graczyk, Project Manager, Tetra Tech EM Inc. (Tetra Tech)
Superfund Technical Assessment and Response Team (START) for Region 5

From: Nancy McDonald, Chemist, Tetra Tech START for Region 5

Subject: Data Validation for
Outboard Marine Corporation (OMC) Site
Waukegan, Illinois
Analytical Technical Direction Document (TDD) No. S05-0202-011
Project TDD No. S05-0202-004

Laboratory: Data Chem Laboratories, Inc. (DataChem), Cincinnati, Ohio
Sample Delivery Group No. TTEMCH
Volatile Organic Compound (VOC) Analysis of Five Air Samples and One Field Blank and Polychlorinated Biphenyl (PCB) Analysis of Nine Air Samples and One Field Blank

1.0 INTRODUCTION

The Tetra Tech START for Region 5 validated VOC analytical data for five air samples and one field blank and PCB analytical data for nine air samples and one field blank collected on 05 Mar 02 from the OMC site in Waukegan, Illinois. The samples were analyzed under the above-referenced sample delivery group by DataChem using U.S. Environmental Protection Agency (U.S. EPA) Methods TO-14A for VOC analysis and TO-10A for PCB analysis.

The data were validated in general accordance with U.S. EPA's "Contract Laboratory Program National Functional Guidelines for Organic Data Review" dated Oct 99. Organic data validation consisted of a review of the following quality control (QC) parameters: holding times, instrument performance checks,

contains recycled fiber and is recyclable

initial and continuing calibrations, blank results, surrogate recovery results, laboratory control sample (LCS) results, internal standard (IS) area counts, and target compound identification.

Section 2.0 discusses the results of the organic data validation, and Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains DataChem's summary of analytical results as well as START's handwritten data qualifications where warranted.

2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below in terms of the QC parameters reviewed. The data qualifiers below were applied to the sample analytical results where warranted (see the attachment).

- J - The compound was detected. The reported numerical value is considered estimated for QC reasons.
- U - The analyte was not detected. The reported numerical value is the sample quantitation limit.

2.1 HOLDING TIMES

The samples were analyzed within the holding time limits of (1) 7 days to extraction and 40 days from extraction to analysis for PCBs and (2) 14 days to analysis for VOCs.

2.2 INSTRUMENT PERFORMANCE CHECKS

The bromofluorobenzene instrument performance checks met the QC abundance criteria for the VOC analyses. The chromatographic resolution was adequate for the PCB analysis.

2.3 INITIAL AND CONTINUING CALIBRATIONS

For the VOC analyses, the relative standard deviation from the initial calibration result was less than or equal to the QC limit of 30 percent for the target compounds detected. The continuing calibration results were less than or equal to the QC limit of 25 percent difference between the initial calibration relative response factor and the continuing calibration relative response factor for the target compounds detected.

For the PCB analyses, the initial calibration was not provided in the data package. No qualifications were warranted based on this minor omission. The continuing calibration standards were within the QC limit of less than or equal to 15 percent difference between the true concentration and the result calculated from the continuing calibration.

2.4 BLANK RESULTS

A method blank was run with the analytical batch in the proper sequence for each analysis. No target compounds were detected in the blank for the VOC or PCB analyses. Field blanks were also collected for the VOC and PCB analyses. The PCB field blank was free of target compound contamination. However, low-level concentrations of dichlorodifluoromethane, chloromethane, freon 11, benzene, toluene, and tetrachloroethene were detected in the VOC field blank. Therefore, results for the following analytes and samples were flagged "U" as not detected because the analytes were detected at less than five times the blank concentrations and may be field contamination: dichlorodifluoromethane, chloromethane, freon 11, and benzene in samples No. AIR-01, AIR-05, AIR-07, AIR-09, and AIR-11 and toluene in samples No. AIR-01, AIR-05, AIR-09, and AIR-11. Low-level concentrations of VOC tentatively identified compounds carbonyl sulfide (4.10 minutes) and hexane (8.22 minutes) in samples No. AIR-09 and AIR-11 were also flagged "U" as not detected because they were detected in the field blank at similar concentrations and may be due to field contamination.

2.5 SURROGATE RECOVERY RESULTS

For the VOC analyses, all surrogate recoveries for each sample were within the laboratory-established QC limits. For the PCB analyses, the recovery for decachlorobiphenyl in sample No. AIR-04 was biased high and outside laboratory-established QC limits. Therefore, the positive sample result for Aroclor 1242 was flagged "J" as estimated. Also, PCB sample No. AIR-13 was not spiked with surrogates. No qualifications were warranted for this minor omission.

2.6 LCS RESULTS

For the VOC and PCB analyses, LCS recoveries were within the QC limits specified by the laboratory.

2.7 IS AREA COUNTS

For the VOC analyses, the IS area counts were within the QC limit of -50 to +100 percent of those for the calibration standard. The retention times for the ISs were within the QC limit of ± 30 seconds. IS area counts do not apply to the PCB analyses.

2.8 TARGET COMPOUND IDENTIFICATION

A spot-check of the chromatograms for the VOC and PCB analyses confirmed the target compound identifications for the samples. However, positive results for Aroclor 1242 in samples No. AIR-02, AIR-03, AIR-04, AIR-06, AIR-08, AIR-10, and AIR-12 were quantitated against the Aroclor 1016 standard. Therefore, all positive Aroclor 1242 results were flagged "J" as estimated.

3.0 OVERALL ASSESSMENT OF DATA

Overall, the sample analytical data generated by DataChem are acceptable for use as qualified.

ATTACHMENT

DATACHEM SUMMARY OF ANALYTICAL RESULTS

(14 Sheets)

DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

S022701P

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 12-MAR-02 10:26

Client Name.....: Tetra Tech EM Inc.
Client Ref Number.....: 805-0202-004/ Contract G9009.E0202011
Sampling Site.....: OMC
Release Number.....: TTEMCH

Date Received.....: 08-MAR-02 00:00

Client Sample Name: AIR-01
DCL Sample Name.....: 02I03668
DCL Report Group.....: 02I-0521-01

Matrix.....: AIR
Date Sampled.....: 05-MAR-02 00:00
Reporting Units.....: PPB V/V
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method.....: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume.....: Not Required

DCL Analysis Group: G0027015
Analysis Method.....: EPA TO-14A
Instrument Type.....: GC/MS VO
Instrument ID.....: 5972-N
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual	Dilution	CRDL
Dichlorodifluoromethane	08-MAR-02 23:06	0.26	~~0.49~~	1.0 U	~~J~~	1	1.0
Chloromethane	08-MAR-02 23:06	0.27	~~0.54~~	1.0 U	~~J~~	1	1.0
Freon 114	08-MAR-02 23:06	0.25	ND			1	1.0
Vinyl Chloride	08-MAR-02 23:06	0.28	ND			1	1.0
Bromomethane	08-MAR-02 23:06	0.24	ND			1	1.0
Chloroethane	08-MAR-02 23:06	0.33	ND			1	1.0
Freon 11	08-MAR-02 23:06	0.27	~~0.30~~	1.0 U	~~J~~	1	1.0
cis-1,2-Dichloroethene	08-MAR-02 23:06	0.26	ND			1	1.0
Freon 113	08-MAR-02 23:06	0.27	ND			1	1.0
Methylene Chloride	08-MAR-02 23:06	0.23	0.93		J	1	1.0
1,1-Dichloroethane	08-MAR-02 23:06	0.25	ND			1	1.0
1,1-Dichloroethene	08-MAR-02 23:06	0.25	ND			1	1.0
Chloroform	08-MAR-02 23:06	0.24	ND			1	1.0
1,1,1-Trichloroethane	08-MAR-02 23:06	0.22	29.			1	1.0
Carbon Tetrachloride	08-MAR-02 23:06	0.24	0.24		J	1	1.0
Benzene	08-MAR-02 23:06	0.20	~~0.45~~	1.0 U	~~J~~	1	1.0
1,2-Dichloroethane	08-MAR-02 23:06	0.22	ND			1	1.0
Trichloroethene	08-MAR-02 23:06	0.18	ND			1	1.0
1,2-Dichloropropane	08-MAR-02 23:06	0.24	ND			1	1.0
cis-1,3-Dichloropropene	08-MAR-02 23:06	0.15	ND			1	1.0
Toluene	08-MAR-02 23:06	0.27	~~2.2~~	2.2 U		1	1.0
trans-1,3-Dichloropropene	08-MAR-02 23:06	0.17	ND			1	1.0
1,1,2-Trichloroethane	08-MAR-02 23:06	0.20	ND			1	1.0
Tetrachloroethene	08-MAR-02 23:06	0.18	ND			1	1.0
1,2-Dibromoethane	08-MAR-02 23:06	0.22	ND			1	1.0
Chlorobenzene	08-MAR-02 23:06	0.20	ND			1	1.0
Ethylbenzene	08-MAR-02 23:06	0.25	0.31		J	1	1.0
m,p-Xylene	08-MAR-02 23:06	0.53	1.2			1	1.0
o-Xylene	08-MAR-02 23:06	0.27	0.37		J	1	1.0
Styrene	08-MAR-02 23:06	0.22	ND			1	1.0
1,1,2,2-Tetrachloroethane	08-MAR-02 23:06	0.37	ND			1	1.0
Benzyl Chloride	08-MAR-02 23:06	0.28	ND			1	1.0
1,3,5-Trimethylbenzene	08-MAR-02 23:06	0.32	ND			1	1.0
1,2,4-Trimethylbenzene	08-MAR-02 23:06	0.28	0.69		J	1	1.0
1,3-Dichlorobenzene	08-MAR-02 23:06	0.24	ND			1	1.0
1,4-Dichlorobenzene	08-MAR-02 23:06	0.29	ND			1	1.0
1,2-Dichlorobenzene	08-MAR-02 23:06	0.24	ND			1	1.0
1,2,4-Trichlorobenzene	08-MAR-02 23:06	0.26	ND			1	1.0
Hexachlorobutadiene	08-MAR-02 23:06	0.51	ND			1	1.0

RM 3.19.02

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S022701P

Date Printed.....: 12-MAR-02 10:26
Client Name.....: Tetra Tech EM Inc.

DCL Sample Name...: 02I03668
DCL Report Group..: 02I-0521-01

Tentatively Identified Compound Results

Analyte (Retention Time)	Date Analyzed	Result	Comment	Qual	Dilution
Ethanol (5.24)	08-MAR-02 23:06	2.0		J	1
Hexane (8.22)	08-MAR-02 23:06	70.		J	1
CYCLOPENTANE, METHYL- (8.93)	08-MAR-02 23:06	1.8		J	1
Decane (17.02)	08-MAR-02 23:06	1.7		J	1

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	18.7	20.0	93.5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

5022701L

Date Printed.....: 12-MAR-02 10:26

Client Name.....: Tetra Tech EM Inc.
Client Ref Number.....: 805-0202-004/ Contract G9009.E0202011
Sampling Site.....: OMC
Release Number.....: TTEMCH

Date Received.....: 08-MAR-02 00:00

Client Sample Name: AIR-05
DCL Sample Name....: 02I03665
DCL Report Group...: 02I-0521-01

Matrix.....: AIR
Date Sampled.....: 05-MAR-02 00:00
Reporting Units....: PPB V/V
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G0227015
Analysis Method....: EPA TO-14A
Instrument Type....: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Dichlorodifluoromethane	08-MAR-02 21:07	0.26	~~0.47~~	1.0 U	~~J~~	1	1.0
Chloromethane	08-MAR-02 21:07	0.27	~~0.57~~	1.0 U	~~J~~	1	1.0
Freon 114	08-MAR-02 21:07	0.25	ND			1	1.0
Vinyl Chloride	08-MAR-02 21:07	0.28	ND			1	1.0
Bromomethane	08-MAR-02 21:07	0.24	ND			1	1.0
Chloroethane	08-MAR-02 21:07	0.33	ND			1	1.0
Freon 11	08-MAR-02 21:07	0.27	~~1.2~~	1.0 U		1	1.0
cis-1,2-Dichloroethene	08-MAR-02 21:07	0.26	1.8			1	1.0
Freon 113	08-MAR-02 21:07	0.27	ND			1	1.0
Methylene Chloride	08-MAR-02 21:07	0.23	0.25		J	1	1.0
1,1-Dichloroethane	08-MAR-02 21:07	0.25	ND			1	1.0
1,1-Dichloroethene	08-MAR-02 21:07	0.25	ND			1	1.0
Chloroform	08-MAR-02 21:07	0.24	ND			1	1.0
1,1,1-Trichloroethane	08-MAR-02 21:07	0.22	0.28		J	1	1.0
Carbon Tetrachloride	08-MAR-02 21:07	0.24	ND			1	1.0
Benzene	08-MAR-02 21:07	0.20	~~0.39~~	1.0 U	~~J~~	1	1.0
1,2-Dichloroethane	08-MAR-02 21:07	0.22	ND			1	1.0
Trichloroethene	08-MAR-02 21:07	0.18	0.98		J	1	1.0
1,2-Dichloropropane	08-MAR-02 21:07	0.24	ND			1	1.0
cis-1,3-Dichloropropene	08-MAR-02 21:07	0.15	ND			1	1.0
Toluene	08-MAR-02 21:07	0.27	~~0.73~~	1.0 U	~~J~~	1	1.0
trans-1,3-Dichloropropene	08-MAR-02 21:07	0.17	ND			1	1.0
1,1,2-Trichloroethane	08-MAR-02 21:07	0.20	ND			1	1.0
Tetrachloroethene	08-MAR-02 21:07	0.18	ND			1	1.0
1,2-Dibromoethane	08-MAR-02 21:07	0.22	ND			1	1.0
Chlorobenzene	08-MAR-02 21:07	0.20	ND			1	1.0
Ethylbenzene	08-MAR-02 21:07	0.25	ND			1	1.0
m,p-Xylene	08-MAR-02 21:07	0.53	ND			1	1.0
o-Xylene	08-MAR-02 21:07	0.27	ND			1	1.0
Styrene	08-MAR-02 21:07	0.22	ND			1	1.0
1,1,2,2-Tetrachloroethane	08-MAR-02 21:07	0.37	ND			1	1.0
Benzyl Chloride	08-MAR-02 21:07	0.28	ND			1	1.0
1,3,5-Trimethylbenzene	08-MAR-02 21:07	0.32	ND			1	1.0
1,2,4-Trimethylbenzene	08-MAR-02 21:07	0.28	ND			1	1.0
1,3-Dichlorobenzene	08-MAR-02 21:07	0.24	ND			1	1.0
1,4-Dichlorobenzene	08-MAR-02 21:07	0.29	ND			1	1.0
1,2-Dichlorobenzene	08-MAR-02 21:07	0.24	ND			1	1.0
1,2,4-Trichlorobenzene	08-MAR-02 21:07	0.26	ND			1	1.0
Hexachlorobutadiene	08-MAR-02 21:07	0.51	ND			1	1.0

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S022701L

Date Printed.....: 12-MAR-02 10:26
Client Name.....: Tetra Tech EM Inc.

DCL Sample Name...: 02I03665
DCL Report Group..: 02I-0521-01

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Hexane(8.22)	08-MAR-02 21:07	96.		J	1

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	18.4	20.0	92.0

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.3
03120210265
Page 17
S0227012

Date Printed..... 12-MAR-02 10:26

Client Name..... Tetra Tech EM Inc.
Client Ref Number ....: 805-0202-004/ Contract G9009.E0202011
Sampling Site. ..... OMC
Release Number. ..... TTEMCH

Date Received. .. ...: 08-MAR-02 00:00

Client Sample Name: AIR-07
DCL Sample Name....: 02I03669
DCL Report Group. : 02I-0521-01

Matrix..... : AIR
Date Sampled. .....: 05-MAR-02 00:00
Reporting Units. ..: PPB V/V
Report Basis..... : ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared. .....: Not Applicable
Preparation Method....: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume..... Not Required

DCL Analysis Group: G0227015
Analysis Method. ..: EPA TO-14A
Instrument Type. ..: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual	Dilution	CRDL
Dichlorodifluoromethane	08-MAR-02 23:45	0.26	~~0.56~~	1.0 U	~~J~~	1	1.0
Chloromethane	08-MAR-02 23:45	0.27	~~0.56~~	1.0 U	~~J~~	1	1.0
Freon 114	08-MAR-02 23:45	0.25	ND			1	1.0
Vinyl Chloride	08-MAR-02 23:45	0.28	ND			1	1.0
Bromomethane	08-MAR-02 23:45	0.24	ND			1	1.0
Chloroethane	08-MAR-02 23:45	0.33	ND			1	1.0
Freon 11	08-MAR-02 23:45	0.27	~~0.50~~	1.0 U	~~J~~	1	1.0
cis-1,2-Dichloroethene	08-MAR-02 23:45	0.26	0.32		J	1	1.0
Freon 113	08-MAR-02 23:45	0.27	ND			1	1.0
Methylene Chloride	08-MAR-02 23:45	0.23	21.			1	1.0
1,1-Dichloroethane	08-MAR-02 23:45	0.25	ND			1	1.0
1,1-Dichloroethene	08-MAR-02 23:45	0.25	ND			1	1.0
Chloroform	08-MAR-02 23:45	0.24	ND			1	1.0
1,1,1-Trichloroethane	08-MAR-02 23:45	0.22	0.32		J	1	1.0
Carbon Tetrachloride	08-MAR-02 23:45	0.24	ND			1	1.0
Benzene	08-MAR-02 23:45	0.20	~~0.37~~	1.0 U	~~J~~	1	1.0
1,2-Dichloroethane	08-MAR-02 23:45	0.22	ND			1	1.0
Trichloroethene	08-MAR-02 23:45	0.18	0.59		J	1	1.0
1,2-Dichloropropane	08-MAR-02 23:45	0.24	ND			1	1.0
cis-1,3-Dichloropropene	08-MAR-02 23:45	0.15	ND			1	1.0
Toluene	08-MAR-02 23:45	0.27	20.			1	1.0
trans-1,3-Dichloropropene	08-MAR-02 23:45	0.17	ND			1	1.0
1,1,2-Trichloroethane	08-MAR-02 23:45	0.20	ND			1	1.0
Tetrachloroethene	08-MAR-02 23:45	0.18	ND			1	1.0
1,2-Dibromoethane	08-MAR-02 23:45	0.22	ND			1	1.0
Chlorobenzene	08-MAR-02 23:45	0.20	ND			1	1.0
Ethylbenzene	08-MAR-02 23:45	0.25	1.7			1	1.0
m,p-Xylene	08-MAR-02 23:45	0.53	5.9			1	1.0
o-Xylene	08-MAR-02 23:45	0.27	1.4			1	1.0
Styrene	08-MAR-02 23:45	0.22	ND			1	1.0
1,1,2,2-Tetrachloroethane	08-MAR-02 23:45	0.37	ND			1	1.0
Benzyl Chloride	08-MAR-02 23:45	0.28	ND			1	1.0
1,3,5-Trimethylbenzene	08-MAR-02 23:45	0.32	ND			1	1.0
1,2,4-Trimethylbenzene	08-MAR-02 23:45	0.28	0.94		J	1	1.0
1,3-Dichlorobenzene	08-MAR-02 23:45	0.24	ND			1	1.0
1,4-Dichlorobenzene	08-MAR-02 23:45	0.29	ND			1	1.0
1,2-Dichlorobenzene	08-MAR-02 23:45	0.24	ND			1	1.0
1,2,4-Trichlorobenzene	08-MAR-02 23:45	0.26	ND			1	1.0
Hexachlorobutadiene	08-MAR-02 23:45	0.51	ND			1	1.0

NM 3-19-02

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S0227011

Date Printed..... : 12-MAR-02 15:18
Client Name..... : Tetra Tech EM Inc

DCL Sample Name : 02I03669
DCL Report Group... 02I-0521-01

Tentatively Identified Compound Results

Analyte Retention Time	Date Analyzed	Result	Comment	Qual.	Dilution
Isopropyl Alcohol(5 88)	08-MAR-02 23:45	43		J	1
2-Butanone(7 69)	08-MAR-02 23:45	640		J	1
2-Heptanone 14 56)	08-MAR-02 23:45	38.		J	1

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	18.6	20.0	93.2

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.3
0312001126527?
Page 13

S022701N

SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 12-MAR-02 10:26

Client Name.....: Tetra Tech EM Inc.
Client Ref Number....: 805-0202-004/ Contract G9009.E0202011
Sampling Site.....: OMC
Release Number.....: TTEMCH

Date Received.....: 08-MAR-02 00:00

Client Sample Name: AIR-09
DCL Sample Name...: 02I03667
DCL Report Group...: 02I-0521-01

Matrix.....: AIR
Date Sampled.....: 05-MAR-02 00:00
Reporting Units...: PPB V/V
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume.....: Not Required

DCL Analysis Group: G0227015
Analysis Method....: EPA TO-14A
Instrument Type....: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Dichlorodifluoromethane	08-MAR-02 22:24	0.26	~~0.71~~	1.0 U	J	1	1.0
Chloromethane	08-MAR-02 22:24	0.27	~~0.36~~	1.0 U	J	1	1.0
Freon 114	08-MAR-02 22:24	0.25	ND			1	1.0
Vinyl Chloride	08-MAR-02 22:24	0.28	ND			1	1.0
Bromomethane	08-MAR-02 22:24	0.24	ND			1	1.0
Chloroethane	08-MAR-02 22:24	0.33	ND			1	1.0
Freon 11	08-MAR-02 22:24	0.27	~~1.6~~	1.6 U		1	1.0
cis-1,2-Dichloroethene	08-MAR-02 22:24	0.26	0.38		J	1	1.0
Freon 113	08-MAR-02 22:24	0.27	ND			1	1.0
Methylene Chloride	08-MAR-02 22:24	0.23	0.33		J	1	1.0
1,1-Dichloroethane	08-MAR-02 22:24	0.25	ND			1	1.0
1,1-Dichloroethene	08-MAR-02 22:24	0.25	ND			1	1.0
Chloroform	08-MAR-02 22:24	0.24	ND			1	1.0
1,1,1-Trichloroethane	08-MAR-02 22:24	0.22	6.2			1	1.0
Carbon Tetrachloride	08-MAR-02 22:24	0.24	ND			1	1.0
Benzene	08-MAR-02 22:24	0.20	~~0.44~~	1.0 U	J	1	1.0
1,2-Dichloroethane	08-MAR-02 22:24	0.22	ND			1	1.0
Trichloroethene	08-MAR-02 22:24	0.18	0.90		J	1	1.0
1,2-Dichloropropane	08-MAR-02 22:24	0.24	ND			1	1.0
cis-1,3-Dichloropropene	08-MAR-02 22:24	0.15	ND			1	1.0
Toluene	08-MAR-02 22:24	0.27	~~0.56~~	1.0 U	J	1	1.0
trans-1,3-Dichloropropene	08-MAR-02 22:24	0.17	ND			1	1.0
1,1,2-Trichloroethane	08-MAR-02 22:24	0.20	ND			1	1.0
Tetrachloroethene	08-MAR-02 22:24	0.18	ND			1	1.0
1,2-Dibromoethane	08-MAR-02 22:24	0.22	ND			1	1.0
Chlorobenzene	08-MAR-02 22:24	0.20	ND			1	1.0
Ethylbenzene	08-MAR-02 22:24	0.25	ND			1	1.0
m,p-Xylene	08-MAR-02 22:24	0.53	ND			1	1.0
o-Xylene	08-MAR-02 22:24	0.27	ND			1	1.0
Styrene	08-MAR-02 22:24	0.22	ND			1	1.0
1,1,2,2-Tetrachloroethane	08-MAR-02 22:24	0.37	ND			1	1.0
Benzyl Chloride	08-MAR-02 22:24	0.28	ND			1	1.0
1,3,5-Trimethylbenzene	08-MAR-02 22:24	0.32	ND			1	1.0
1,2,4-Trimethylbenzene	08-MAR-02 22:24	0.28	0.29		J	1	1.0
1,3-Dichlorobenzene	08-MAR-02 22:24	0.24	ND			1	1.0
1,4-Dichlorobenzene	08-MAR-02 22:24	0.29	ND			1	1.0
1,2-Dichlorobenzene	08-MAR-02 22:24	0.24	ND			1	1.0
1,2,4-Trichlorobenzene	08-MAR-02 22:24	0.26	ND			1	1.0
Hexachlorobutadiene	08-MAR-02 22:24	0.51	ND			1	1.0

NM 3.19.03

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A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S022701N

Date Printed 12-MAR-02 15:18
Client Name ..... Tetra Tech EM Inc.

DCL Sample Name ... 02I03667
DCL Report Group .. 02I-0521-01

Tentatively Identified Compound Results

Analyte Retention Time	Date Analyzed	Result	Comment	Qual.	Dilution
Propene + Carbonyl Sulfide(4.09	08-MAR-02 22:24	5.1		~~J~~ U	1
Butane(4.63	08-MAR-02 22:24	3.1		J	1
Hexane(8.22	08-MAR-02 22:24	18.		~~J~~ U	1

NM 3-14-08

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	19.5	20.0	97.5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS60A-V1.0
0312021026527 2
Page 11

S022701M

Date Printed.....: 12-MAR-02 10:26

Client Name.....: Tetra Tech EM Inc.
Client Ref Number.....: 805-0202-004/ Contract G9009.E0202011
Sampling Site.....: DMC
Release Number.....: TTEMCH

Date Received.....: 08-MAR-02 00:00

Client Sample Name: AIR-11
DCL Sample Name....: 02I03666
DCL Report Group...: 02I-0521-01

Matrix.....: AIR
Date Sampled.....: 05-MAR-02 00:00
Reporting Units....: PPB V/V
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume.....: Not Required

DCL Analysis Group: G0227015
Analysis Method.....: EPA TO-14A
Instrument Type....: GC/MS VO
Instrument ID.....: 5972-W
Column Type .....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Dichlorodifluoromethane	08-MAR-02 21:44	0.26	~~0.58~~	1.0 U	~~J~~	1	1.0
Chloromethane	08-MAR-02 21:44	0.27	~~0.63~~	1.0 U	~~J~~	1	1.0
Freon 114	08-MAR-02 21:44	0.25	ND			1	1.0
Vinyl Chloride	08-MAR-02 21:44	0.28	ND			1	1.0
Bromomethane	08-MAR-02 21:44	0.24	ND			1	1.0
Chloroethane	08-MAR-02 21:44	0.33	ND			1	1.0
Freon 11	08-MAR-02 21:44	0.27	~~1.4~~	1.4 U		1	1.0
cis-1,2-Dichloroethene	08-MAR-02 21:44	0.26	0.54		J	1	1.0
Freon 113	08-MAR-02 21:44	0.27	ND			1	1.0
Methylene Chloride	08-MAR-02 21:44	0.23	0.36		J	1	1.0
1,1-Dichloroethane	08-MAR-02 21:44	0.25	ND			1	1.0
1,1-Dichloroethene	08-MAR-02 21:44	0.25	ND			1	1.0
Chloroform	08-MAR-02 21:44	0.24	ND			1	1.0
1,1,1-Trichloroethane	08-MAR-02 21:44	0.22	1.8			1	1.0
Carbon Tetrachloride	08-MAR-02 21:44	0.24	ND			1	1.0
Benzene	08-MAR-02 21:44	0.20	~~0.51~~	1.0 U	~~J~~	1	1.0
1,2-Dichloroethane	08-MAR-02 21:44	0.22	ND			1	1.0
Trichloroethene	08-MAR-02 21:44	0.18	3.3			1	1.0
1,2-Dichloropropane	08-MAR-02 21:44	0.24	ND			1	1.0
cis-1,3-Dichloropropene	08-MAR-02 21:44	0.15	ND			1	1.0
Toluene	08-MAR-02 21:44	0.27	~~1.9~~	1.9 U		1	1.0
trans-1,3-Dichloropropene	08-MAR-02 21:44	0.17	ND			1	1.0
1,1,2-Trichloroethane	08-MAR-02 21:44	0.20	ND			1	1.0
Tetrachloroethene	08-MAR-02 21:44	0.18	ND			1	1.0
1,2-Dibromoethane	08-MAR-02 21:44	0.22	ND			1	1.0
Chlorobenzene	08-MAR-02 21:44	0.20	ND			1	1.0
Ethylbenzene	08-MAR-02 21:44	0.25	ND			1	1.0
m,p-Xylene	08-MAR-02 21:44	0.53	ND			1	1.0
o-Xylene	08-MAR-02 21:44	0.27	ND			1	1.0
Styrene	08-MAR-02 21:44	0.22	ND			1	1.0
1,1,2,2-Tetrachloroethane	08-MAR-02 21:44	0.37	ND			1	1.0
Benzyl Chloride	08-MAR-02 21:44	0.28	ND			1	1.0
1,3,5-Trimethylbenzene	08-MAR-02 21:44	0.32	ND			1	1.0
1,2,4-Trimethylbenzene	08-MAR-02 21:44	0.28	ND			1	1.0
1,3-Dichlorobenzene	08-MAR-02 21:44	0.24	ND			1	1.0
1,4-Dichlorobenzene	08-MAR-02 21:44	0.29	ND			1	1.0
1,2-Dichlorobenzene	08-MAR-02 21:44	0.24	ND			1	1.0
1,2,4-Trichlorobenzene	08-MAR-02 21:44	0.26	ND			1	1.0
Hexachlorobutadiene	08-MAR-02 21:44	0.51	ND			1	1.0

NM 3-19-02

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S022701M

Date Printed : 12-MAR-02 15:33
Client Name : Tetra Tech EM Inc

DCL Sample Name : 02I03666
DCL Report Group : 02I-0521-01

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual	Dilution
Carbonyl Sulfide(4.11)	08-MAR-02 21:44	8.8		~~J~~ UJ	1
Isobutane(4.45)	08-MAR-02 21:44	6.7		J	1
Butane(4.71)	08-MAR-02 21:44	3.5		J	1
Butane, 2-methyl-(5.62)	08-MAR-02 21:44	85		J	1
Pentane(6.05)	08-MAR-02 21:44	6.3		J	1
2-Butanone(7.82)	08-MAR-02 21:44	2.8		J	1
Hexane(9.22)	08-MAR-02 21:44	20.		~~J~~ UJ	1
Undecane(18.73)	08-MAR-02 21:44	1.9		J	1

UM 3.19.02

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	18.3	20.0	91.3

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S022701K

Date Printed.....: 12-MAR-02 10:26

Client Name.....: Tetra Tech EM Inc.
Client Ref Number.....: 805-0202-004/ Contract G9009.E0202011
Sampling Site.....: OMC
Release Number.....: TTEMCH

Date Received.....: 08-MAR-02 00:00

Client Sample Name: **AIR-BLK-01**
DCL Sample Name....: **02I03664**
DCL Report Group...: **02I-0521-01**

Matrix.....: AIR
Date Sampled.....: 05-MAR-02 00:00
Reporting Units....: PPB V/V
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume.....: Not Required

DCL Analysis Group: G022701B
Analysis Method....: EPA TO-14A
Instrument Type....: GC/MS VO
Instrument ID.....: 5972-W
Column Type .....: DB-1
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Dichlorodifluoromethane	08-MAR-02 20:27	0.26	0.55		J	1	1.0
Chloromethane	08-MAR-02 20:27	0.27	0.59		J	1	1.0
Freon 114	08-MAR-02 20:27	0.25	ND			1	1.0
Vinyl Chloride	08-MAR-02 20:27	0.28	ND			1	1.0
Bromomethane	08-MAR-02 20:27	0.24	ND			1	1.0
Chloroethane	08-MAR-02 20:27	0.33	ND			1	1.0
Freon 11	08-MAR-02 20:27	0.27	0.29		J	1	1.0
cis-1,2-Dichloroethene	08-MAR-02 20:27	0.26	ND			1	1.0
Freon 113	08-MAR-02 20:27	0.27	ND			1	1.0
Methylene Chloride	08-MAR-02 20:27	0.23	ND			1	1.0
1,1-Dichloroethane	08-MAR-02 20:27	0.25	ND			1	1.0
1,1-Dichloroethene	08-MAR-02 20:27	0.25	ND			1	1.0
Chloroform	08-MAR-02 20:27	0.24	ND			1	1.0
1,1,1-Trichloroethane	08-MAR-02 20:27	0.22	ND			1	1.0
Carbon Tetrachloride	08-MAR-02 20:27	0.24	ND			1	1.0
Benzene	08-MAR-02 20:27	0.20	0.33		J	1	1.0
1,2-Dichloroethane	08-MAR-02 20:27	0.22	ND			1	1.0
Trichloroethene	08-MAR-02 20:27	0.18	ND			1	1.0
1,2-Dichloropropane	08-MAR-02 20:27	0.24	ND			1	1.0
cis-1,3-Dichloropropene	08-MAR-02 20:27	0.15	ND			1	1.0
Toluene	08-MAR-02 20:27	0.27	0.87		J	1	1.0
trans-1,3-Dichloropropene	08-MAR-02 20:27	0.17	ND			1	1.0
1,1,2-Trichloroethane	08-MAR-02 20:27	0.20	ND			1	1.0
Tetrachloroethene	08-MAR-02 20:27	0.18	0.21		J	1	1.0
1,2-Dibromoethane	08-MAR-02 20:27	0.22	ND			1	1.0
Chlorobenzene	08-MAR-02 20:27	0.20	ND			1	1.0
Ethylbenzene	08-MAR-02 20:27	0.25	ND			1	1.0
m,p-Xylene	08-MAR-02 20:27	0.53	ND			1	1.0
o-Xylene	08-MAR-02 20:27	0.27	ND			1	1.0
Styrene	08-MAR-02 20:27	0.22	ND			1	1.0
1,1,2,2-Tetrachloroethane	08-MAR-02 20:27	0.37	ND			1	1.0
Benzyl Chloride	08-MAR-02 20:27	0.28	ND			1	1.0
1,3,5-Trimethylbenzene	08-MAR-02 20:27	0.32	ND			1	1.0
1,2,4-Trimethylbenzene	08-MAR-02 20:27	0.28	ND			1	1.0
1,3-Dichlorobenzene	08-MAR-02 20:27	0.24	ND			1	1.0
1,4-Dichlorobenzene	08-MAR-02 20:27	0.29	ND			1	1.0
1,2-Dichlorobenzene	08-MAR-02 20:27	0.24	ND			1	1.0
1,2,4-Trichlorobenzene	08-MAR-02 20:27	0.26	ND			1	1.0
Hexachlorobutadiene	08-MAR-02 20:27	0.51	ND			1	1.0

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S022701K

Date Printed.....: 12-MAR-02 10:26
Client Name.....: Tetra Tech EM Inc.

DCL Sample Name....: **02I03664**
DCL Report Group...: **02I-0521-01**

Tentatively Identified Compound Results

Analyte(Retention Time)	Date Analyzed	Result	Comment	Qual.	Dilution
Carbonyl Sulfide(4.10)	08-MAR-02 20:27	12.		J	1
Butane, 2-methyl-(5.61)	08-MAR-02 20:27	14.		J	1
Hexane(8.22)	08-MAR-02 20:27	11.		J	1

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
4-Bromofluorobenzene	18.5	20.0	92.6

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DATA TABLE
µg/sample
Aroclors

Client #	DCL #	1016	1221	1232	1242	1248	1254	1260	TCMX % Rec	DCBP % Rec
AIR-12	02-06309	ND	ND	ND	.99J	ND	ND	ND	64.	80.
AIR-10	02-06310	ND	ND	ND	2.1J	ND	ND	ND	67.	81
AIR-06	02-06311	ND	ND	ND	.75J	ND	ND	ND	66.	83.
AIR-08	02-06312	ND	ND	ND	1.5J	ND	ND	ND	63.	80.
AIR-04	02-06313	ND	ND	ND	.35J	ND	ND	ND	66.	240.*
AIR-03	02-06314	ND	ND	ND	3.2J	ND	ND	ND	65.	86.
AIR-02	02-06315	ND	ND	ND	1.0J	ND	ND	ND	65.	87.
AIR-BLK-02	02-06316	ND	ND	ND	ND	ND	ND	ND	66.	8[illegible]
AIR-13	02-06317	ND	ND	ND	ND	ND	ND	ND	**	**
AIR-14	02-06318	ND	ND	ND	ND	ND	ND	ND	63.	79.
	PUF BLK	ND	ND	ND	ND	ND	ND	ND	68.	81.
	PUF LCS	ND	ND	ND	ND	ND	ND	3.9	72.	92.
	LOD	**.25**	**.5**	**.25**	**.25**	**.25**	**.25**	**.25**		

ND indicates below the limit of detection

NM 3.19.07

PUF LCS is spiked at 5 µg/sample.

* High surrogate recovery due to sample interferences.
** Sample did not get spiked with surrogate.

Tami S. Anderson
Analyst

Reviewer

02-C-1031

DATA TABLE
µg/m³
Aroclors

Client #	DCL #	1016	1221	1232	1242	1248	1254	1260
AIR-12	02-06309	<.15	<.30	<.15	.61 J	<.15	<.15	<.15
AIR-10	02-06310	<.14	<.29	<.14	1.2 J	<.14	<.14	<.14
AIR-06	02-06311	<.13	<.27	<.13	.40 J	<.13	<.13	<.13
AIR-08	02-06312	<.13	<.27	<.13	.90 J	<.13	<.13	<.13
AIR-04	02-06313	<.15	<.30	<.15	.21 J	<.15	<.15	<.15
AIR-03	02-06314	<.13	<.26	<.13	1.7 J	<.13	<.13	<.13
AIR-02	02-06315	<.14	<.27	<.14	.54 J	<.14	<.14	<.14
AIR-BLK-02	02-06316	-	-	-	-	-	-	-
AIR-13	02-06317	<.16	<.32	<.16	<.16	<.16	<.16	<.16
AIR-14	02-06318	<.15	<.30	<.15	<.15	<.15	<.15	<.15
	LOD	**.25**	**.5**	**.25**	**.25**	**.25**	**.25**	**.25**

Tami S. Anderson
Analyst

Reviewer